JACBS
Joint Annual Conference of Biomedical Science

第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

2019/03/23-03/24

Translating Science into Health Care.

會議地點：國防醫學院

中華民國臨床生化學會
台灣毒物學學會
中國生理學會
台灣藥理學會
中華民國解剖學學會
中華民國免疫學會
台灣分子生物影像學會
台灣生物化學及分子生物學學會
中華民國細胞及分子生物學學會

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目 錄

大會會長的話

由國內臨床生化、細分、毒物、生理、藥理、解剖、生化、免疫、分子影像九大學會共同舉辦的生物醫學聯合學術會議，是國內生物醫學領域最重要的年度會議。很榮幸第三十四屆生物醫學聯合學術年會，主要由「中華民國臨床生化學會」負責籌備，將於 2019 年 3 月 23-24 日在國防醫學院舉辦。在此，謹代表三十四屆生物醫學聯合學術年會籌備委員會，誠摯邀請您出席此年度的盛會！

“促進人類健康”是我們生醫領域研究的重要目標，因此本屆大會主題：「轉譯科學新知應用於健康照護；Translating Science into Health Care」，特別邀請到 Plenary speaker 大會主題講者：國立台灣大學前校長及中央研究院院士楊泮池院士，於 3 月 24 日分享他豐碩的研究成果。籌備委員會為了讓此屆生物醫學聯合學術年會順利成功符合所有與會者的需求，召開了多次籌備會議，此次會議將延續歷年優良傳統，由各學會邀請國內外專家學者進行特別演講，舉辦各項口頭及壁報論文競賽、廠商展示等活動，鼓勵與會者能聆聽各項演講多多交流討論，相信兩天的會議將內容將精采可期。

本人謹代表第三十四屆生物醫學年會籌備委員會，感謝所有參與籌備工作人員的辛勞與努力，謝謝各廠商的參展與贊助，以及國防醫學院的協助安排，才能讓本次生醫年會順利舉行。最後本人謹祝福本屆生物醫學年會圓滿成功！

中華民國臨床生化學會
理事長 甯孝真

注意事項

1. 會議會場禁止攜帶食物及飲料進入，會議進行中禁止飲食，敬請共同維護會場整潔。
2. 會場將提供餐點，用餐相關事宜：（請參照平面配置圖 p6-p8）
   A. 會場於一樓、二樓及三樓皆提供茶點供與會人員食用。
   B. 持有午餐兌換券者可以至學生餐廳之便當領取處 . 領取便當及飲品，或至微風．三總商店街餐飲櫃消費。
   C. 可至一樓學生餐廳與二樓戶外休憩區，以及會場擺放桌椅處用餐，並請配合工作人員指示確實分類。
   D. 午餐兌換券僅供年會兩日使用，兌換時間為當日 15:00 前。
3. 大會主題競賽注意事項：
   A. 大會主題競賽將於 3 月 24 日（日）大會特別演講後進行大會主題競賽頒獎。
   B. 大會主題競賽時間與地點如下：

3 月 23 日（六）	論文編號	教室地點
15:00-17:10	O01-O08	三樓 31 教室

4. 學會口頭論文報告注意事項：
   欲使用 PowerPoint 作口頭論文報告者，請確實遵守以下規定，以利會議程序之進行：
   A. 每位講者報告時間請依照各學會競賽規定進行。
   B. 請使用 Office XP 以上版本之 PowerPoint 軟體，其他版本之軟體請勿使用。
   C. 檔案存檔於 CD-R、CD-RW 光碟片中或隨身碟。請於報告前 30 分鐘，將隨身碟交給各該報告會場之大會工作人員。
   D. 與會前請確實執行掃毒動作及做好檔案備份，以利會議之進行。
   E. 各學會詳細口頭論文報告注意事項請參閱各學會競賽規則。
5. 壁報論文報告注意事項：
   壁報論文報告者，請確實遵守以下規定，以利流程之進行：
   A. 壁報論文展示地點將設於會場一樓、二樓及三樓。請留意大會網站之公告。
   B. 壁報論文作業時段 (可能會有變動，請以最新消息公告為主)：
   C. 大會將提供論文看板 (大會壁報看版尺寸：W100×H200CM，直式 / 建議論文輸出尺寸：W90×H150CM)、標示名牌。
      大會將於看板上標示論文摘要編號，論文作者請依照編號於正確看板位置張貼壁報論文。
   D. 論文之圖表文字大小以在一公尺距離可清楚閱讀為原則。
   E. 壁報論文內容的表達方式中、英文皆可。
   F. 壁報論文現場解說時段，至少須有一位作者在場，配戴名牌，解說論文內容。

2019 年 3 月 23 日 (六) 壁報論文展示及解說時段如下：

3 月 23 日（六）	論文張貼時間	展示時間	解說時間	拆除時間
上午組	09:00-09:30	09:30-12:00	11:00-11:45	12:00 以前
下午組	12:15-12:45	12:45-17:00	12:45-13:30	17:10 以前

2018 年 3 月 24 日 (日) 壁報論文展示及解說時段如下

3 月 24 日（日）	論文張貼時間	展示時間	解說時間	拆除時間
上午組	09:00-09:30	09:30-12:45	11:45-12:30	12:45 以前
下午組	12:45-13:30	13:30-17:00	13:30-14:15	17:10 以前

G. 壁報展示地點如下：（請參照平面配置圖 p6-p8）

國防醫學院三樓會場	
中華民國臨床生化學會	致德堂前空地
中華民國解剖學學會	第 32、33 教室後方
國防醫學院二樓會場	
台灣毒物學學會	教室 20、29 中間空地
台灣分子生物影像學會	教室 20、29 中間空地
國防醫學院一樓會場	
中華民國細胞及分子生物學學會	中庭
台灣生物化學及分子生物學學會	中庭
中國生理學會	第 1、2 教室前方
台灣藥理學會	第 1、2 教室前方
中華民國免疫學會	可勝廳外走廊

前往國防醫學院交通示意圖 & 接駁車訊息

年會舉辦地點：
台北國防醫學院 (114 臺北市內湖區民權東路六段 161 號)

搭乘資訊：

至台北車站搭乘藍線 (板南線)—昆陽站 4 號出口搭乘往國防醫學院接駁車。
3 月 23-24 日 會議專用接駁車
地　點：捷運昆陽站← →內湖國防醫學院
班　次：每 10~15 分鐘一班
時　間：早上 08:20-10:30
　　從昆陽捷運站 -> 內湖國防醫學院 單向發車
時　間：下午 15:30-18:00
　　從內湖國防醫學院 -> 昆陽捷運站 單向發車

附近捷運站：

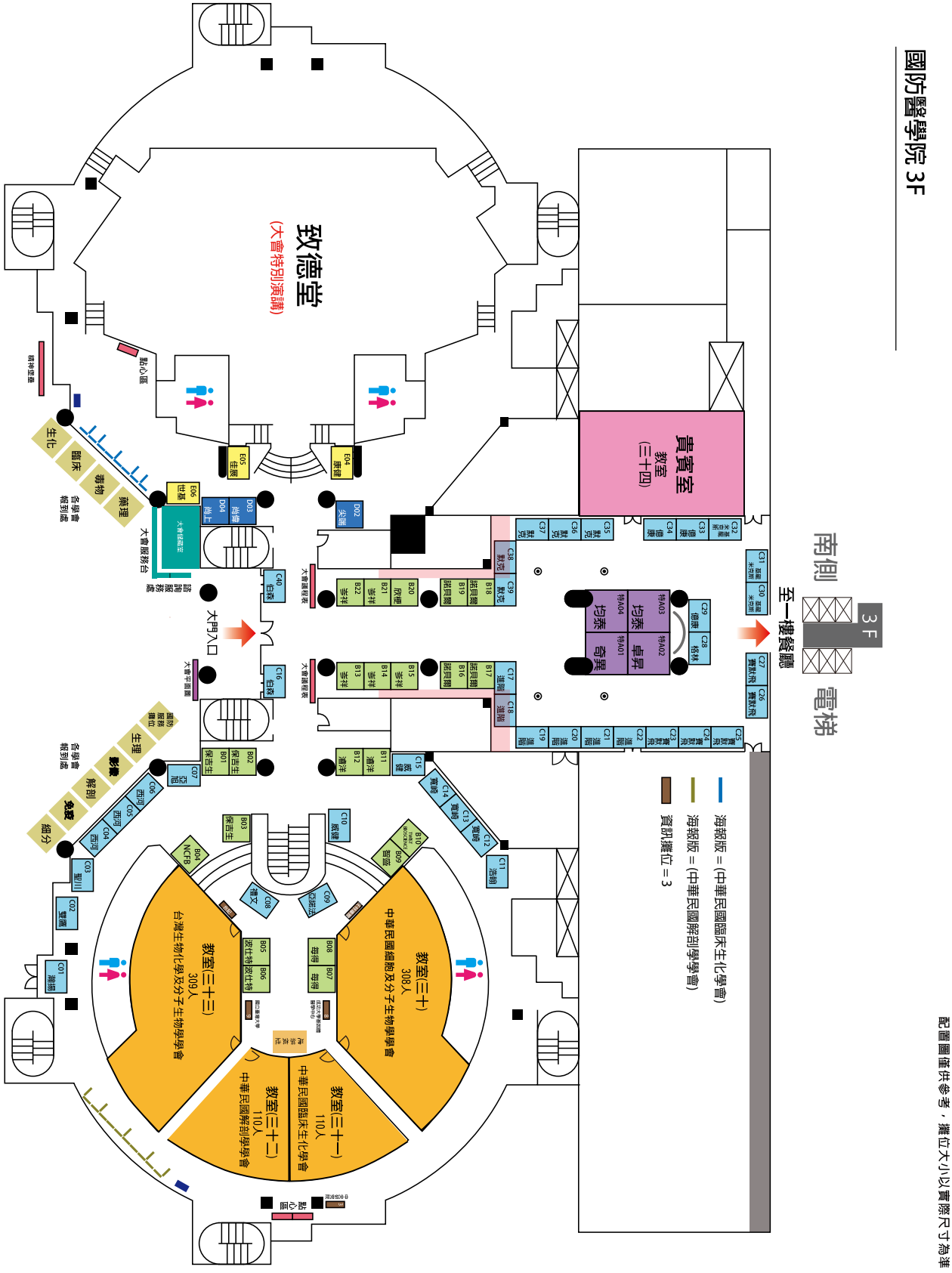
捷運板南線到昆陽站→藍 36、藍 24、專屬接駁車→目的地

停車相關事宜：

國防醫學院之停車場為免費停放 (由於停車位有限建議搭乘大眾運輸工具)
三軍總醫院之停車場，採計時方式計費，每小時 40 元，請勿占用專用停車位

前往國防醫學院捷運交通示意圖

生物醫學會 3F 平面圖



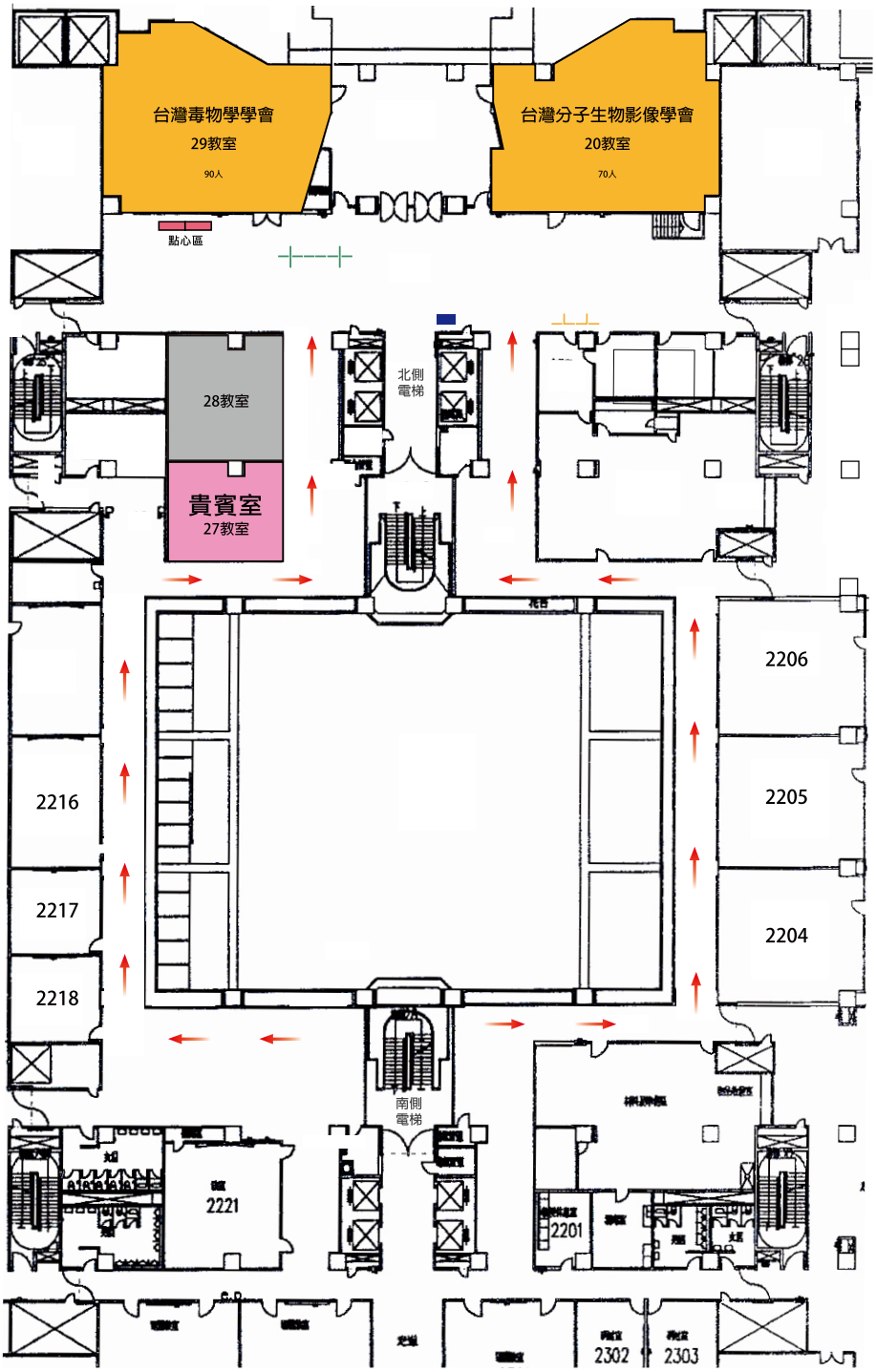
配置圖僅供參考，攤位大小以實際尺寸為準

生物醫學會 2F 平面圖

配置圖僅供參考，攤位大小以實際尺寸為準

國防醫學院 2F

海報版 = (台灣毒物學學會)
海報版 = (台灣分子生物影像學會)

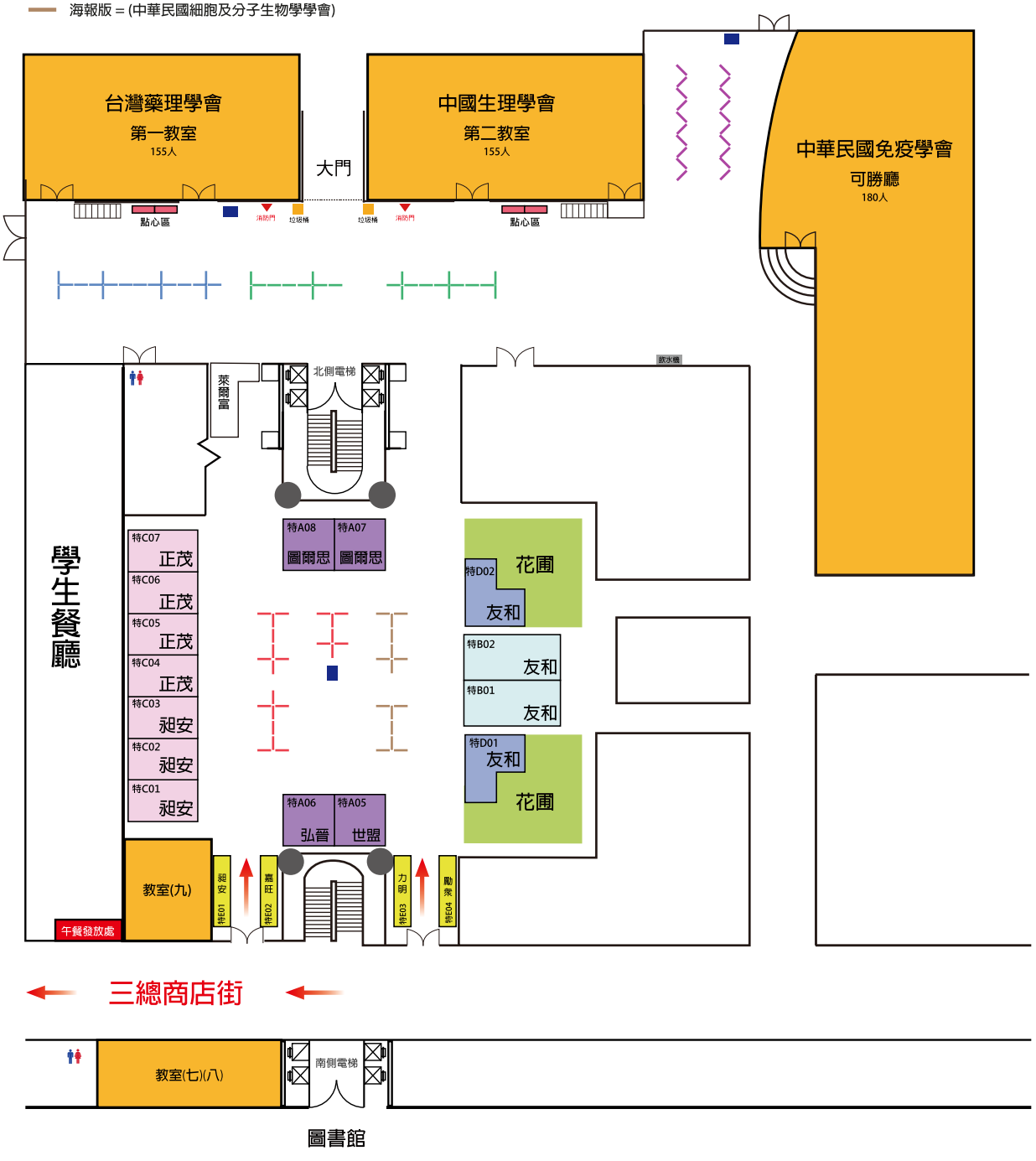


生物醫學會 1F 平面圖

配置圖僅供參考，攤位大小以實際尺寸為準

國防醫學院 1F

- 海報版 = (台灣藥理學會)
- 海報版 = (中國生理學會)
- 海報版 = (中華民國免疫學會)
- 海報版 = (台灣生物化學及分子生物學學會)
- 海報版 = (中華民國細胞及分子生物學學會)



第 34 屆生物醫學聯合學術年會
參與學會暨理事長與秘書長名單

學會名稱	理事長	秘書長
中華民國臨床生化學會	甯孝真	郭靜穎
中華民國細胞及分子生物學學會	施修明	紀雅惠
台灣毒物學學會	李志恒	姜至剛
中國生理學會	蔡少正	廖娟妙
台灣藥理學會	簡伯武	張雅雯
中華民國解剖學學會	陳天華	蕭鎮源
台灣生物化學及分子生物學學會	李芳仁	冀宏源
中華民國免疫學會	劉扶東	李建國
台灣分子生物影像學會	劉仁賢	楊邦宏

第 34 屆生物醫學聯合學術年會籌備委員名單

總 召 集 人：甯孝真

總 連 絡 人：郭靜穎

成立學術組及各秘書長任務分組：

文書出版組：張雅雯、郭靜穎

廠商展示組：方偉宏、郭靜穎

會　場　組：紀雅惠、郭靜穎

報　到　組：冀宏源、郭靜穎

會　計　組：廖娟妙、郭靜穎

公　關　組：姜至剛、郭靜穎

學　術　組：各學會秘書長

主要工作人員名單

總 策 劃 人：王麗雲

執　行　組：鄧伃倢、姚思宇、譚瑋儒、戴學為

美　編　組：徐慧如

第 34 屆生物醫學聯合學術年會 會議資訊

	時間	地點
開幕式	108 年 3 月 23 日 09:30-09:50	3 樓 第 30 教室
大會特別演講	108 年 3 月 24 日 10:45-11:45	3 樓 致德堂

學會特別演講及會員大會時間表

學會名稱	學會特別演講	學會會員大會	地點
中華民國臨床生化學會	108 年 3 月 23 日 10:00-10:50	108 年 3 月 23 日 11:00-11:20	3 樓 第 31 教室
中華民國細胞及分子生物學學會	108 年 3 月 23 日 9:50-11:00		3 樓 第 30 教室
中華民國免疫學會			
台灣毒物學學會	108 年 3 月 23 日 14:00-15:00	108 年 3 月 23 日 15:00-16:00	2 樓 第 29 教室
中國生理學會	108 年 3 月 23 日 10:30-11:20	108 年 3 月 23 日 14:30-15:10	1 樓 第 2 教室
台灣藥理學會	108 年 3 月 23 日 14:30-15:30	108 年 3 月 23 日 15:30-16:30	1 樓 第 1 教室
中華民國解剖學學會	108 年 3 月 23 日 09:50-11:00	108 年 3 月 23 日 11:00-11:30	3 樓 第 32 教室
台灣生物化學及分子生物學學會	108 年 3 月 23 日 09:50-11:00	108 年 3 月 23 日 11:00-11:20	3 樓 第 33 教室
台灣分子生物影像學會	108 年 3 月 23 日 09:50-11:00	108 年 3 月 23 日 15:45-16:45	2 樓 第 20 教室

第 34 屆生物醫學聯合學術年會 大會議程

3月23日	一樓			二樓		三樓			
	藥理學會	生理學會	免疫學會	分子影像	毒物學會	細分學會	臨床生化	解剖學會	生化學會
	1 教室	2 教室	30 教室 / 可勝廳	20 教室	29 教室	30 教室	31 教室	32 教室	33 教室
09:00-09:30	報到 & 各學會準備								
09:30-09:50	開幕 (30 教室)								
09:50-11:00	9:50-11:10 學會研究生論文獎決選演講 (張文昌)	09:50-10:30 Student report I (余佳慧)	細分及免疫聯合 Keynote speech 江伯倫 (劉扶東) (30 教室)	Keynote Speech Wen-Sheng Huang (張正、薛晴彥)		細分及免疫聯合 Keynote speech 江伯倫 (劉扶東) (30 教室)	10:00-10:50 特別演講 葉振聲 (甯孝真)	特別演講 馬國興 (陳天華)	Keynote Speech 陳瑞華 (李芳仁)
11:00-11:45		10:30~11:20 Keynote Speech Prof. Denis Noble (蔡少正)	Come see my poster section 1 (可勝廳)	各學會看板論文競賽 I			11:00-11:20 會員大會 (甯孝真)	11:00-11:30 解剖學學會會員大會	11:00-11:20 生化學會會員大會
								11:30-12:15 學會看板論文展示 I	11:20-12:05 學會看板論文競賽 I
11:45-12:45	科技新知研討會 / 午餐								
			伯森生物科技有限公司 (可勝廳)			伯森生物科技有限公司		12:00-13:00 午餐交流 (國防醫學院生物及解剖學科會議室)	
12:45-13:30			各學會看板論文競賽 II					12:45-13:00 學會看板論文展示 II	
13:30-15:30		13:00~14:30 生理學會看板論文競賽		13:30-14:00 Ching-Chu Lu 14:00-14:30 Yu-Yi Huang (顏若芳、黃文盛) 14:30-15:30 Chih-Hsien Chang (王信二、陳傳霖)	14:00-15:00 特別演講 余幸司 (李志恒)		13:30-14:30 Symposium 劉俊仁 蘇剛毅 林佳覽 (方偉宏) 14:30-14:50 學會壁報論文競賽頒獎 (郭靜穎)	Symposium： "老化與修復" 謝佩玲 江明憲 林能裕 莫凡毅 (鄭珈昆)	Session I RNA Biology 陳俊安 譚賢明 楊鎧鍵 施景文 (鄭子豪)
	14:30-15:30 學會特別演講 邱麗珠 (簡伯武)	14:30~15:10 生理學會會員大會 (蔡少正)	14:30-16:30 細分及免疫聯合 Symposium： "Immuno-regulation and Immunotherapy" 張明熙 陶秘華 黃麗蓉 陳儀莊 (郭敏玲、施修明) (30 教室)			14:30-16:30 細分及免疫聯合 Symposium： "Immuno-regulation and Immunotherapy" 張明熙 陶秘華 黃麗蓉 陳儀莊 (郭敏玲、施修明) (30 教室)	15:00-17:10 大會主題口頭論文競賽 "From Molecules and Cells to Human Health" (楊雅倩、葉振聲)		
		15:15~15:35 Student report II (余佳慧)							
15:30-15:45	15:30-16:30 學會會員大會 學會研究獎項頒獎	15:40~17:30 Symposium I (Endocrinology) Ken-ichirou Morohashi 何美泠 李文森 蕭培文 (黃娟娟)		休息 (大會茶點)	15:-00-16:00 會員大會 (李志恒)			休息 (大會茶點)	
15:45-16:45				台灣分子生物影像學會會員大會 (Ren-Shyan Liu)					職涯分享 張典顯 (冀宏源)

第 34 屆生物醫學聯合學術年會 大會議程

3 月 24 日	一樓			二樓		三樓			
	藥理學會	生理學會	免疫學會	分子影像	毒物學會	細分學會	臨床生化	解剖學會	生化學會
	1 教室	2 教室	三軍總醫院 / 可勝廳	20 教室	29 教室	30 教室	31 教室	32 教室	33 教室
09:00-10:30		生理學會口頭競賽 (李昆澤)	三軍總醫院 第二演講廳、 第三演講廳 9:10-9:40 牛道明 (張德明) 陳相成 (藍忠亮) 9:40-10:10 顧正崙 (謝世良) 楊崑德 (江伯倫) 10:10-10:30 Panel Discussion	Symposium： Tung-Hsin Wu (劉仁賢、楊邦宏)	研究生口頭論文競賽 (姜至剛)		學會口頭競賽 I (郭靜穎)	學會學生口頭論文報告 (Oral Presentation) (蕭鎮源)	8:30-10:30 學會口頭競賽 (冀宏源)
10:30-10:45	休息（大會茶點）								
10:45-11:45	生醫年會大會特別演講 (致德堂) 演講者：楊泮池 院士 (甯孝真)								
11:45-12:30	11:45-12:00 大會主題口頭論文競賽頒獎								
			Come see my poster section 2 (可勝廳)	各學會看板論文競賽 III					
12:30-13:30		12:00~13:30 生理學會餐會	科技新知研討會 / 午餐						
	國立台灣大學生技中心		百歐精準生物醫學股份有限公司 (可勝廳)	英科智能		財團法人國家衛生研究院			
13:30-14:15			各學會看板論文競賽 IV				13:30-15:10 學會口頭競賽 II (郭靜穎)	各學會看板論文競賽 IV	
14:15-15:30	14:00-16:00 Symposium I： Redox Signalings and Inflammation： From Bench to Practices S1: 李新城 S2: 鄭美玲 S3: 林錦生 S4: 施志勤 S5: 鄭琬蒨 (楊春茂、吳錦楨)	13:45~15:45 Symposium II (Physiological Seminar) 張哲逢 吳偉立 劉懿璇 林世杰 (陳景宗)	14:30-16:45 免疫學會口頭競賽及頒獎 (李建國) (可勝廳)	14:30-16:45 Oral Presentation and Award (鄧文炳、李易展、林康平)	研討會：Finding a better path to challenges in Toxicology for better Taiwan 江秀梅 陳珮珊 陳容甄 (王應然)	14:30-16:10 細分學會 口頭論文報告 (紀雅惠)		14:15-16:15 Symposium： " 解剖教學分享 " 曾國藩 周逸鵬 賴逸儒 李學德 王需 (王需)	14:30-16:30 Session II Structure Biology/Cryo-EM 章為皓 吳尚蓉 陳青諭 吳昆峯 (蔡明道)
15:30-15:45							休息 （大會茶點）		
15:45-16:45		16:00~16:45 口頭及壁報論文競賽頒獎典禮 (吳鈺琳)			15:45-16:15 中華民國毒物學學會口頭暨壁報論文競賽頒獎 (李志恒)	16:10-16:30 壁報論文頒獎 (紀雅惠)	15:45-16:00 學會口頭論文競賽頒獎 (郭靜穎)		16:30-16:45 生化學會壁報論文 & 口頭論文競賽頒獎

第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

大會特別演講

Keynote Letcture

大會特別演講 (Keynote Lecture)

108 年 3 月 24 日 (週日) 10:45-11:45
地　　點 : 3 樓，致德堂
主 持 人 : 甯孝真 理事長
講　　題 : Global Rising Health Threat:Lung Cancer in Never Smoker
演 講 者 : 楊泮池 院士
單　　位 : Department of Internal Medicine, National Taiwan University College of Medicine

Speaker :

楊泮池

Pan-Chyr Yang MD, PhD

Current Position:
Professor, Department of Internal Medicine, National Taiwan University College of Medicine

Education/Training:
1979 M.D., College of Medicine, National Taiwan University,
1990 Ph.D., Graduate Institute of Clinical Medicine, National Taiwan University

Professional and Research Experience:
Attending physician, National Taiwan University Hospital
Professor of Medicine, National Taiwan University College of Medicine
Research Fellow, Institute of Biomedical Sciences, Academia Sinica

Awards and Honors:
Academician, Academia Sinica, 2006
Academician, The World Academy of Sciences, 2008
Fellow, National Academy of Inventors 2015

Selected Publications:
1. Chen WJ, Ho CC, Chang YL, Chen HY, Lin CA, Ling TY, Yu SL, Yuan SS, Chen YJ, Lin CY, Pan SH, Chou HY, Chen YJ, Chang GC, Chu WC, Lee YM, Lee JY, Lee PJ, Li KC, Chen HW, Yang PC: Cancer-associated fibroblasts regulate the plasticity of lung cancer stemness via paracrine signaling. Nat Commun 2014 Mar 25;5:3472.
2. Huang KY, Kao SH, Wang WL, Chen CY, Hsiao TH, Salunke SB, Chen JJ, Su KY, Yang SC, Hong TM, Chen CS, Yang PC: Small-molecule, T315, Promotes CBL-dependent Degradation of EGFR via Y1045 Autophosphorylation. Am J Respir Crit Care Med. 2016 Apr 1;193:753-66.
3. Tseng SJ, Huang KY, Kempson IM, Kao SH, Liu MC, Yang SC, Liao ZX, Yang PC: Remote Control of Light-Triggered Virotherapy. ACS Nano. 2016 Nov 22;10(11):10339-10346.
4. Lin CW, Wang LK, Wang SP, Chang YL, Wu YY, Chen HY, Hsiao TH, Lai WY, Lu HH, Chang YH, Yang SC, Lin MW, Chen CY, Hong TM, Yang PC: Daxx inhibits hypoxia-induced lung cancer cell metastasis by suppressing the HIF-1 α /HDAC1/Slug axis. Nat Commun. 2016 Dec 22;7:13867.
5. Tseng SJ, Kempson IM, Huang KY, Li HJ, Fa YC, Ho YC, Liao ZX, Yang PC. Targeting tumor microenvironment by bioreduction-activated nanoparticles for light-triggered virotherapy. ACS Nano. 2018 Oct 23;12(10):9894-9902.

3 月 24 日 (週日) 10:45-11:45
3 樓，致德堂

Global Rising Health Threat: Lung Cancer in Never Smoker

Pan-Chyr Yang, MD, PhD
National Taiwan University Hospital, National Taiwan University Taipei, Taiwan

Lung cancer is the global leading health threat. More than 80% of lung cancer is attributable to smoking. Nevertheless, there are still a large number of lung cancer patients who have never smoked. Lung cancer in never smoker is a rising threat worldwide and PM2.5 exposure may be the most attributable risk. It is estimated that lung cancer deaths among never-smokers have been ranked the 7th leading cause of cancer mortality. Lung cancer in never-smoker especially in women is even more prevalent in East Asia. It ranks 1st in cancer morality both in man and women in Taiwan and 93% of women suffered from lung cancer are never-smoker. We conducted a LDCT screening for lung cancer in never-smokers (TALENT: Taiwan Lung Cancer Screening in never smoker trial) focused on high risk population including family history of lung cancer, environmental exposure, TB/COPD, high cooking index and not using ventilator during cooking. Susceptibility risk SNP genotyping *(TERT, TP63, HLA-DRB1/HLA-DQA1, HLA-DRB9/HLA-DRB5, VTI1A, BPTF and DCBLD1)* were also analyzed. From 2015 to September 11, 2018. A total of 11,177 subjects were enrolled. There are 270 patients confirmed the diagnosis of lung cancers, 267 patients were adenocarcinoma, 256 were stage 1 (94.8%). The lung cancer detection rate was 2.42%. We also proposed a risk score model based on family history, environmental factors and genetic susceptibility that may predict the risk of lung cancer in never-smokers. The identification of EGFR activating mutations in the early of 20th century and the discovery of specific tyrosine kinase inhibitors (TKIs) targeted therapy have opened a new era of precision therapy for lung cancer patients. The implementation of driver gene mutation testing and NGS have significantly improved the treatment outcome of non-small lung cancer (NSCLC) patients. However, most of the patients still eventually developed resistance even to new generation TKIs, although they may temporary overcome the earlier generation TKI resistance. The recent evidence of immune check point inhibition for advanced NSCLC supporting that immune oncology may be a promising hope for treatment of lung cancer. However, only 25-30% of advanced NSCLC patients in real-life may benefit from immune check point inhibition. The emerging unmet demands for immuno-oncology will be the identification of predictive biomarkers and new strategies to increase responsive population of advanced NSCLC. Most importantly, to develop the effective lung cancer screening methods and preventable risk factors may be currently the most applicable way to fight with this rising threat.

第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

學會特別演講

Keynote Speech

學會特別演講 Special Letcture

論文編號：L1 (台灣藥理學會) 108 年 3 月 23 日 (週六) 時間 : 14:30-15:30
地　　點：1 樓，第 1 教室
主 持 人 : 簡伯武理事長
講　　題 : Unprecedented Roles of Orexin-Initiated Endocannabinoid Signaling: Stress-induced cocaine Seeking and Acupuncture Analgesia
演 講 者 : 邱麗珠教授
單　　位 : Graduate Institute of Brain and Mind Sciences, College of Medicine, National Taiwan University

論文編號：L2 (中國生理學會) 108 年 3 月 23 日 (週六) 時間 : 10:30-11:20
地　　點：3 樓，第 2 教室
主 持 人 : 蔡少正 理事長
講　　題 : Central Dogma or Central Debate? The use of stochasticity in organisms
演 講 者 : Prof. Denis Noble
單　　位 : Emeritus Professor of Cardiovascular Physiology, University of Oxford, UK

論文編號：L3 (中華民國免疫學會及細胞分子學會) 108 年 3 月 23 日 (週六) 時間 : 09:50-11:00
地　　點 : 3 樓，第 30 教室
主 持 人 : 劉扶東副院長
講　　題 : From Immune Balance to a Novel Subpopulation of Regulatory T cells Induced by B cells
演 講 者 : 江伯倫副院長
單　　位 : Vice Superintendent, NTUH/ Distinguished Professor, NTU

論文編號：L4 (台灣分子生物影像學會) 108 年 3 月 23 日 (週六) 時間 : 09:50-11:00
地　　點 : 2 樓，第 20 教室
主 持 人 : 張正教授、薛晴彥教授
講　　題 : Potential of Development of Radionuclide Theranostics in Taiwan
演 講 者 : Wen-Sheng Huang, MD, PhD
單　　位 : Department of Nuclear Medicine, Taipei Veterans General Hospital

論文編號：L5 (台灣毒物學學會) 108 年 3 月 23 日 (週六) 時間 : 14:00-15:00
地　　點 : 2 樓，第 29 教室
主 持 人 : 李志恒教授
講　　題 : Science Development and Clinical Research
演 講 者 : 余幸司教授
單　　位 : Chair Professor, Graduate Institute of Clinical Medicine and Department of Dermatology, Faculty of Medicine, Kaohsiung Medical University

學會特別演講 Special Letcture

論文編號：L6 (中華民國臨床生化學會) 108 年 3 月 23 日 (週六) 時間 : 10:00-10:50
地　　點 : 3 樓，第 31 教室
主 持 人 : 甯孝真理事長
講　　題 : Epigenetic Related Endocrinology
演 講 者 : 葉振聲教授
單　　位 : Division of Endocrinology and Metabolism, Taipei-Veterans General Hospital

論文編號：L7 (中華民國解剖學學會) 108 年 3 月 23 日 (週六) 時間 : 09:50-11:00
地　　點 : 3 樓，第 32 教室
主 持 人 : 陳天華理事長
講　　題 : Investigating serotonergic aberration in various animal models using 4-[^{18}F] ADAM/ PET 運用 4-[^{18}F] ADAM/ PET 在各種動物模式研究血清素系統的異常
演 講 者 : 馬國興教授
單　　位 : Director, Department of Research and Development, National Defense Medical Center/ Professor, Graduate Institute of Biology and Anatomy, National Defense Medical Center

論文編號：L8 (台灣生物化學及分子生物學學會) 108 年 3 月 23 日 (週六) 時間 : 09:50-11:00
地　　點 : 3 樓，第 33 教室
主 持 人 : 李芳仁理事長
講　　題 : BIK ubiquitination controls life-death fate of cellular stress responses and anti-tumor activity
演 講 者 : 陳瑞華特聘研究員
單　　位 : Distinguished Research Fellow, Institute of Biological Chemistry, Academia Sinica

L1

Speaker :

邱麗珠

Lih-Chu Chiou, Ph.D.

Education:

1989/09 - 1993/05	Ph.D.	Pharmacology	National Taiwan University
1980/09 - 1983/06	M. S.	Pharmacology	National Taiwan University
1976/09 - 1980/06	B. S.	Pharmacy	National Taiwan University

Professional Experience:

2014/12-Present	Director	Graduate Institute of Brain and Mind Sciences, College of Medicine, National Taiwan University
2018/02-Present	Professor Joint Appointed	Graduate Institute of Acupuncture Science, China Medical University
2015/08-2017/01	Visiting Professor	Graduate Institute of Acupuncture Science, China Medical University
2011/08-Present	Professor Joint Appointed	Graduate Institute of Brain and Mind Sciences, College of Medicine, National Taiwan University
2002/08-Present	Professor	Department of Pharmacology, College of Medicine, National Taiwan University
2007/08-2012/01	Professor Joint Appointed	Graduate Institute of Zoology, National Taiwan University
2007/12-2008/07	Researcher Joint Appointed	Department of Neurology, National Taiwan University Hospital
1995/10-1996/11	Visiting Scientist	Marine Biomedical Science, University of Texas Medical Branch, Galveston, Texas, USA
1980/08-2002/07	Associate professor/ Lecturer/Teaching Assistant	Department of Pharmacology, College of Medicine, National Taiwan University

Awards:

1. 科技部傑出研究獎 Outstanding Research Award, Minister of Science and Technology, Taiwan 2018
2. 科技部未來科技突破獎 Future Technology Breakthrough Award, Minister of Science and Technology, Taiwan, 2017.
3. NHRI Extramural Grant award (for grantee awarded for three times), National Health Research Institutes, Miaoli, Chunan, Taiwan, 2013.
4. NHRI Extramural Grant. 2001-2005, 2006-2010, 2013-2015, 2018-2020.
5. Research Achievement Award, National Taiwan University, Taipei, Taiwan, 2004.
6. Distinguished Research Award, Taiwan Pharmacology Society, Taiwan, 2004.
7. IUPHAR Highly Commended Young Investigator Award Finalist, The XIV World Congress of Pharmacology, IUPHAR, San Francisco, USA, 2002.
8. EPHAR Poster Award, 3rd EPHAR Congress, Federation of European Pharmacological Societies, Lyon, France, 2001.
9. Research Award, National Science Council, Taiwan. 1984~1996, 1999.
10. Traveling Scholarship, National Science Council, Taiwan, 1995.

3 月 23 日 (週六) 14:30-15:30
1 樓，第 1 教室

Unprecedented Roles of Orexin-Initiated Endocannabinoid Signaling: Stress-induced Cocaine Seeking and Acupuncture Analgesia

Lih-Chu Chiou, Ph.D.
Graduate Institute of Brain and Mind Sciences, Department of Pharmacology, College of Medicine, National Taiwan University, Taipei, Taiwan.

Orexin A and B, also named hypocretin 1 and 2, are two potent hypothalamic neuropeptides. There are two orexin receptors, OX1Rs and OX2Rs and both are Gq protein coupled receptors. Orexins have been implicated in several neuropsychatric controls involving arousal, feeding, reward and pain regulations. In 2011, we found that orexins given in the ventrolateral periaqueductal gray (vlPAG), a midbrain region crucial for initiating descending pain inhibition, can reduce nociceptive responses in mice via a novel analgesic mechanism. Specifically, orexin induces analgesia via activating postsynaptic OX1Rs in vlPAG neurons to generate 2-arachidonoylglycerol (2-AG) via an enzymatic cascade mediated by phospholipase C (PLC) and diacylglycerol lipase (DAGL). 2-AG is an endocannabinoid that is well-known to be able to produce retrograde inhibition of neurotransmitter release, namely 2-AG produced from the postsynaptic site diffuses back to presynaptic GABAergic terminals where type 1 cannabinoid receptors (CB1Rs) are located and then, via activating CB1Rs, attenuates the release of GABA, an inhibitory neurotransmitter. Inhibition of GABAergic transmission, i.e. disinhibition, can lead to vlPAG excitation and activating the descending pain inhibitory pathway.[1] Thereafter, we further explored the physiological significance of this orexin-induced endocannabinoid retrograde disinhibition cascade, i.e. when endogenous orexins can be released to produce disinhibition in the vlPAG via this OX1R- PLC-DAGL-2-AG-CB1R cascade. Interstingly, we found that this orexin-initiated and endocannabinoid-mediated disinhibition mechanism in the vlPAG can contribute to stress-induced analgesia[2] as well as acupuncture-induced analgesia.[3] Importantly, this mechanism also exists in the ventral tegmental area, an area important for reward regulation, and can contribute to stress-induced cocaine relapse.[4]

1. Ho YC, Lee HJ, Tung LW, Liao YY, Fu SY, Teng SF, Liao HT, Mackie K and Chiou LC (2011) Activation of orexin 1 receptors in the periaqueductal gray of male rats leads to antinociception via retrograde endocannabinoid (2-arachidonoylglycerol)-induced disinhibition. J Neurosci 31:14600-14610.
2. Lee HJ, Chang LY, Ho YC, Teng SF, Hwang LL, Mackie K and Chiou LC (2016). Stress induces analgesia via orexin 1 receptor-initiated endocannabinoid/CB1 signaling in the mouse periaqueductal gray. Neuropharmacology 105:577-586.
3. Chen YH, Lee HJ, Lee MT, Wu YT, Lee YH, Hwang LL, Hung MS, Zimmer A, Mackie K and Chiou LC (2018) Median nerve stimulation induces analgesia via orexin-initiated endocannabinoid disinhibition in the periaqueductal gray. Proc Natl Acad Sci USA 115 (45): E10720-10729.
4. Tung LW, Lu GL, Lee YH, Yu L, Lee HJ, Leishman E, Bradshaw H, Hwang LL, Hung MS, Mackie K, Zimmer A and Chiou LC (2016) Orexins contribute to restraint stress-induced cocaine relapse by endocannabinoid-mediated disinhibition of dopaminergic neurons. Nature Communications 7:12199.

L2

Speaker :

Prof. Denis Noble

Education/Training:
1958: B.Sc Physiology, University College London
1961: PhD Physiology, University College London
1963: MA University of Oxford

Professional and Research Experience:
1961-1963: Assistant Lecturer in Physiology, University College London
1963-1984: Lecturer in Physiology, University of Oxford
1984-2004: Burdon-Sanderson Professor of Cardiovascular Physiology, University of Oxford
2004-now: Emeritus Professor, University of Oxford

Awards and Honors:
2014: Honorary Member, Chinese Association of Physiological Sciences
2008: Honorary Degree, University of Warwick, UK
2005: Doctor Honoris Causa, Universite de Bordeaux
2005: Mackenzie Prize, British Cardiac Society
1979: Elected Fellow of The Royal Society, (National Academy of Sciences, UK)

Selected Publications:
Noble, D. 2018. Central Dogma or Central Debate. Physiology, 33, 246-249.
Noble R, Noble D. 2018. Harnessing stochasticity: How do organisms make choices? Chaos, 28, 106309.
Noble D. 2017. Evolution viewed from physics, physiology and medicine. Interface Focus 7: 20160159.
Noble R, Noble D. 2017. Was the watchmaker blind? Or was she one-eyed? Biology 6, 47
Noble D. 2016. Dance to the Tune of Life. Biological Relativity. Cambridge: CUP

3 月 23 日 (週六) 10:30-11:20
1 樓，第 2 教室

Central Dogma or Central Debate? The use of stochasticity in organisms

Denis Noble
University of Oxford, UK

The Central Dogma of molecular biology has been widely misinterpreted to be a modern version of the Weismann Barrier. This confuses cellular-level inheritance with DNA inheritance and is therefore incorrect. The consequences for biology generally and for physiology in particular are profound. Removing the confusion completely alters our understanding of the relationship between physiology and evolutionary biology. The Weismann Barrier is permeable, and organisms are capable of transmitting non-DNA inheritance.

A related confusion is the role of stochasticity in organisms. Stochasticity is not only the source of genetic variation, it is also the clay from which organisms actively seek solutions to environmental challenges. Causation operates from the cellular and higher levels. This is what enables cells and organisms to be alive and maintain their integrity. This form of causation also enables organisms to partially direct their evolution.

L3

Speaker :

江伯倫

Bor-Luen Chiang

Current Position:
Vice Superintendent, NTUH/ 台大醫院教學研究副院長
Distinguished Professor, NTU/ 國立台灣大學特聘教授

Education/Training:
1983 M.D. Department of Medicine , National Taiwan University
1991 Ph.D. Immunology, University of California, Davis

Professional and Research Experience:
2003-2009 Chair, Department of Pediatrics, College of Medicine, NTU
2010-2013 Director, Graduate Institute of Immunology, College of Medicine, NTU

Awards and Honors:
2018 Hsu Y-Z Scientific Award
2016 Academic Award of Ministry of Education
2016 TECO Award
2012 TienTe Lee Award
2004, 2010, 2013 Outstanding Research Award of Department of Science and Techonology

Selected Publications:
1. Chang, Y.-S. and **Chiang, B.-L**. Sleep disorder and atopic dermatitis: A two-way street? J Allergy Clin Immunol 2018; 142:1033-1040.* (IF: 13.258, Allergy 1/26)
2. Yu, H.-C., **Chiang, B.-L**. Toll-like receptor-2 ligation of mesenchymal stem cells alleviate airway inflammation. J Allergy Clin Immunol 2018; 142: 284-287.* (IF: 13.258, Allergy 1/26)
3. Chang, Y.-S., Lin, M.-H., Lee, J.-H., Lee, P.-I., Dai, Y.-S., Lin, Y.-T., Wang, L.-C., Yu, H.-H., Yang, Y.-H., Chen, C.-A., Wan, K.-S. and **Chiang, B.-L**. Melatonin supplement for children with atopic dermatitis and sleep disturbance- A randomized, double –blind, placebo-controlled crossover study. JAMA Pediatrics 2016; 170: 35-42.* (IF: 10.769, Pediatrics 1/124)
4. Chien C.-H., Yu, H.-H. and **Chiang, B.-L**. Single allergen-induced tolerance inhibits airway inflammation in conjugated allergen immunized mice. J Allergy Clin Immunol. 2015; 136: 1110-1113.* (IF: 13.258, Allergy 1/26)
5. Chang, C.-J., Yanh, Y.-H., Liang, Y.-C., Chiu, C.-J., Chu, K.-H., Chou, H.-N. and **Chiang, B.-L**. A novel phycobiliprotein alleviates allergic airway inflammation by modulating immune response. Am J Respir Crit Care Med 2011; 183:15-25. (IF: 15.24, Respiratory System 2/59)

3 月 23 日 (週六) 09:50-11:00
3 樓，第 30 教室

From Immune Balance to a Novel Subpopulation of Regulatory T cells Induced by B cells

Bor-Luen Chiang
Graduate Institute of Clinical Medicine, National Taiwan University, Taipei, Taiwan

In the past years, we have applied a variety of approaches such gene therapy, oral tolerance, stem cells to induced or maintain immune balance of immunological diseases. We have constructed many cytokine genes and also siRNA for the treatment of allergic diseases. In addition, we have also applied transgenic plant expressing mite Derp 1 and Derp 2 proteins to alleviate allergic airway inflammation. Lung stem cells and mesenchymal stem cells have been to exert immune regulatory activities on a variety of immunological diseases. Further, our team has focused on exploring the characteristics of a certain subpopulation of regulatory T cells induced by B cells. We have initially found that LAG3 molecule might play the critical role in the functions of Treg-of-B cells. Further, the results also demonstrated that Foxp3 and IL-10 were not necessary for the development and functions of Treg-of-B cells. All these results suggested that these Treg-of-B cells are different from the conventional naturally occurring regulatory T cells (nTreg cells) and inducible type 1 regulatory T cells (Tr1 cells). The regulatory T cells described in our study could be the novel subset of the regulatory T cells, which might open the brand new approaches for the pathway of immune regulation. In the past three years, we have analyzed these Treg-of-B cells with the methods of microarray and quantitative RT-PCR and identified a variety of candidate genes and molecules. We have applied these Treg-of-B cells for the treatment of several animal model of immunological diseases such as asthma, collagen-induced arthritis and inflammatory bowel disease. The most recent results suggested that antigen-specificity also play the critical role in the induction of Treg-of-B cells. All the data suggested that Treg/B cells could alleviate disease severity of these immunological diseases. From our results, it is suggested that relatively large number of regulatory T cells could be induced with our approaches, which could make it easier for the potential application. In addition, novel genes or molecules identified in the study could become the target molecules for the future development of immune target therapy as well.

L4

Speaker :

黃文盛

Wen-Sheng Huang

Current Position:
Director, Department of Nuclear Medicine & National PET/Cyclotron Center,
Taipei Veterans General Hospital / 臺北榮民總醫院 核醫部兼正子中心主任

Education/Training:
Bachelor of Medicine, National Defense Medical Center
Visiting scholar, Med. Edu. & Pub. Health, USC & UCI, Long Beach VA Medical Center

Professional and Research Experience:
Nuclear Medicine, Molecular Imaging, Thyroidology and Radiation Protection

Awards and Honors:
2012 ~ Nat. delegate, AOFNMB.
2013/3 ~ Nat. Healthcare Accreditation Committee.

Selected Publications:
1. Chih-Yung Chang, Guang-Uei Hung, Bailing Hsu, Bang-Hung Yang, Chi-Wei Chang, Lien-Hsin Hu, Wen-Sheng Huang, Hsin-Ell Wang, Tao-Cheng Wu, Ren-Shyan Liu (2018, Oct). Simplified quantification of 13N-ammonia PET myocardial blood flow: A comparative study with the standard compartment model to facilitate clinical use. *Journal of Nuclear Cardiology, 2018* Oct 15. doi: 10.1007/s12350-018-1450-1. (SCI, 22/129,RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING - SCIE). IF(4.011).
2. Lien-Hsin Hu,Liang-Chih Wu,Chien-Ying Lee, Ko-Han Lin,Lee-Shing Chu, Ren-Shyan Liu, Wen-Sheng Huang, Cheng-Pei Chang (2018, Feb). A practical background correction method for an immediately repeated first-pass radionuclide angiography. *Journal of the Chinese Medical Association*, 2018 Feb 1. pii: S1726-4901(17)30377-5. doi: 10.1016/j.jcma.2017.10.009. (SCI, 85/155,MEDICINE, GENERAL & INTERNAL). IF(1.252).
3. Bailing Hsu, Lien-Hsin Hu,Bang-Hung Yang,Lung-Ching Chen,Yen-Kung Chen, Chien-Hsin Ting, Guang-Uei Hung, Wen-Sheng Huang, Tao-Cheng Wu (2017, Jan). SPECT myocardial blood flow quantitation toward clinical use: a comparative study with 13N-Ammonia PET myocardial blood flow quantitation. *European Journal of Nuclear Medicine and Molecular Imaging*, January 2017, Volume 44, Issue 1, pp 117–128. (SCI, 6/124；RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING). 本人為通訊作者 . IF(5.537).
4. Ooi H, Chen CY, Hsiao YC, Huang WS, Hsieh BT (2016, Aug). Fluorodeoxyglucose Uptake in Advanced Non-small Cell Lung Cancer With and Without Pulmonary Lymphangitic Carcinomatosis. *ANTICANCER RESEARCH*, 2016 Aug;36(8):4313-20. (SCI, 159/213；ONCOLOGY). MOST 103-2314-B-371-004-MY3. 本人為通訊作者 . (IF:1.895).

3 月 23 日 (週六) 09:50-11:00
2 樓，第 20 教室

Potential of Development of Radionuclide Theranostics in Taiwan
台灣發展放射核種診斷治療的潛力

Wen-Sheng Huang
Department of Nuclear Medicine & National PET/Cyclotron Center,
Taipei Veterans General Hospital

Radionuclide theranostics provides a new era for the contemporary medical care which, by definition delivers specific targeted therapy based on specific targeted diagnostic tests using nano- and radio- sciences. It opens a way to make nuclear medicine (NM) revive owing to the inherently functional and biochemical characteristics of NM modalities. The concept of theranostics fulfils the current trend of health care i.e. personalized and precision medicine to evaluate disease mechanism, monitor drug distribution and to predict therapeutic response. The iodine-131 imaging and therapy for patients with thyrotoxicosis or thyroid cancer are an earliest clinical radionuclide theranostics, following by yttrium-90 radiosynovectomy for intractable inflammatory joint disorders, radium-223 for metastatic prostate cancer to bones, gallium-68/lutetium-177 somatostatin analogues and PSMA for evaluation and therapy of somatostatin positive tumors and complicated prostate cancer, yttrium-90 radioembolization for primary or metastatic hepatic tumors are successful radiopharmaceuticals for theranostic purposes in practice.

In our Hospital cooperated with NTHU, the F-18 FBPA for BNCT has shown a promising passionate theranostic tool for those with advanced head and neck and brain tumors. It can be possible to labeled therapeutic radionuclide such as Astatine-211, a cyclotron produced α-particle, with halogen properties likes I-131 for deep sited tumor treatment alone. The 5th theranostics world congress in 2019 (TWC2019) has been held in Korea in march, presenting future prospects of theranostics to diseases other than the well-established NET peptide receptor and CRPC small molecular radionuclide treatments and might also be the potential of development of radionuclide theranostics in Taiwan.

L5

Speaker :

余幸司

Hsin-Su Yu

Current Position:

Chair Professor, Graduate Institute of Clinical Medicine and Department of Dermatology, Faculty of Medicine, Kaohsiung Medical University
高雄醫學大學 臨床醫學研究所暨皮膚學科講座教授

Education/Training:

M.D., Kaohsiung Medical College (1965-1972)
D.M.Sc., Faculty of Medicine, University of Tokyo, Japan (1975-1980)
Resident, Department of Dermatology, Kaohsiung Medical College Hospital (1973-1975)
Resident, Department of Dermatology, University of Tokyo Hospital, Japan (1976-1981)

Professional and Research Experience:

- Research Fellow, Department of Dermatology, Faculty of Medicine, University of Tokyo (1975-1981)
- Research Fellow, Department of Dermatology, Harvard Medical School / Massachusetts General Hospital, USA (1981)
- NIH Fogarty Fellow, Laboratory for Investigative Dermatology, Rockefeller University, USA (1984-1986)

Awards and Honors:

1. International League of Dermatological Societies 2014 Certificate of Appreciation (a lifetime achievement award)(2014)
2. Honorary Member, German Society of Dermatology (2011)
3. Honorary Member, Japanese Dermatological Association (2008)
4. Outstanding Scientific Award, National Science Council (2000-2001 and 2004-2006)
5. NIH Fogarty Fellowship Award, USA (1984-1986)

Selected Publications:

1. Liao WT, Lu JH, Lee CH, Lan CE, Chang JG, Chai CY, Yu HS (2017) An interaction between arsenic-induced epigenetic modification and inflammatory promotion in a skin equivalent during arsenic carcinogenesis. J Invest Dermatol 137:187-196.
2. Cheng-Che E. Lan, Shi-Bei Wu, Ching-Shuang Wu, Yi-Chun Shen, Tzu-Ying Chiang, Tau-Huei Wei, Hsin-Su Yu (2012) Induction of primitive pigment cell differentiation by visible light (helium-neon laser): a photoacceptor specific response and not replicable by UVB irradiation. J Mol Med 90:321-330.
3. Chih-Hung Lee, Shi-Bei Wu, Chien-Hui Hong, Wei-Ting Liao, Ching-Ying Wu, Gwo-Shing Chen, Yau-Huei Wei, Hsin-Su Yu (2011) Aberrant cell proliferation by enhanced mitochondrial biogenesis via mtTFA in arsenical skin cancers. Am J Pathol 187:2066-2076. (Invited commentary by Ubaldo E. Martinez-Ortschoorn et al)
4. Wei-Ting Liao, Chia-Li Yu, Cheng-Che E. Lan, Chih-Hung Lee, Chung-Hsing Chang, Louis W. Chang, Huey-Ling You, Hsin-Su Yu (2009) Differential effects of arsenic on cutaneous and systemic immunity: focusing on CD4+ cell apoptosis in patients with arsenic-induced Bowen's disease. Carcinogenesis 30:1064-1072.

3 月 23 日 (週六) 14:00-15:00
2 樓，第 29 教室

Science Development and Clinical Research

Hsin-Su Yu
Graduate Institute of Clinical Medicine, Kaohsiung Medical University

In the 15th century, the invention of movable-type print by Johannes Gutenberg, i.e., Gutenberg revolution, made modern science development promoted rapidly. In Taiwan, philanthropy and moral education has been the two fundamental bases of medical education. Informatics revolution and rapid development of biotechnology, i.e., regenerative medicine and informative solutions, have induced revolutionary advance in medicine recently, and in parallel with which, potential health hazards and academic ethics have become newly generated issues. Novel health management and whole body/brain function enhancement are new directions of medical development. However, medical humanity is still the core value in medical science. Using environmental factors as examples, in this lecture, the biological roles of arsenic and visible red light on skin diseases, from prospective basic research to clinical translational application, will be presented.

L6

Speaker :

葉振聲

Tjin-Shing Jap, M. D.

Current Position:

Professor, School of Medicine, National Yang Ming University
Physician, Division of Endocrinology and Metabolism, Taipei-Veterans General Hospital,
Physician, Division of Endocrinology
Weigong Memorial Hospital, Toufen, Miao-Li county

臺北榮民總醫院	新陳代謝科 醫師	1975 年 11 月至今
苗栗縣頭份市為恭醫院	新陳代謝科 醫師	2018 年 4 月至今

Professional and Research Experience:

National Defense Medical Center, School of Medicine, Taiwan, Graduated in Aug. 1975
Research fellow, School of Medicine, The Johns Hopkins University, Baltimore, MD, USA 1982
Chief, Section of Biochemistry, Taipei, Veterans General Hospital 1991-2011.
Chief, Division of Endocrinology and Metabolism, 2011-2015.
Immediate Past President, The Endocrine Society of ROC (Taiwan) 2013-2016.

Awards and Honors:

The Doctor of the year 2013, Veterans General Hospital-Taipei
The Endocrine Society of the ROC for Research Award 2008, Taiwan
The Endocrine Society of the ROC for Research Award 2003, Taiwan
The National highest Research award in lipid Research 2000, Taiwan
The 6th ACCP for Research award 2000, Korea

Selected Publications:

1. Chang WL, Huang CJ, Lei TH, Niu DM, Chiu CY, Jap TS (corresponding author). A novel mutation of KCNJ11 gene in a patient with permanent neonatal diabetes mellitus. Diabetes Res Clin Pract 2014, 104: e29-e32
2. Tjin-Shing Jap, Chih-Yang Chiu, Dau-Ming Niu, and Michael A. Levine. Three Novel Mutations in the PHEX Gene in Chinese Subjects with Hypophosphatemic Rickets Extends Genotypic Variability. Calcified Tissue International 2011;88 : 370-7.
3. Chien-Chung Lai, Chih-Yang Chiu, An-Suey Shiao Yi-Chu Tso, Yi-Chi Wu, Tzong-Yang Tu, and Tjin-Shing Jap (Corresponding author). Analysis of the SLC26A4 Gene in Patients with Pendred syndrome in Taiwan. Metabolism 2007; 56:1279-1284.
4. Gin-Sing Won, Chih-Yang Chiu,Yi-Chu Tso, Shwu-Fen Jenq, Pi-Sung Cheng and Tjin-Shing Jap (Corresponding author). A Compound Heterozygous Mutations in the P450c17 (17-hydroxylase/17,20 Lyase) Gene in a Chinese Subject with Congenital Adrenal Hyperplasia. Metabolism 2007; 56: 504-507.
5. Jap TS (corresponding author), CY Chiu, JGS Won, YC Wu and Chen HS. Novel Mutations in the MEN1 Gene in Subjects with Multiple Endocrine Neoplasia-1. Clin Endocrinology (Oxford). 2005; 62: 336-42.

3 月 23 日 (週六) 10:00-10:50
3 樓，第 31 教室

Epigenetic Related Endocrinology

Tjin-Shing Jap, M. D.
Division of Endocrinology and Metabolism, Taipei-Veterans General Hospital, Taipei, Taiwan

Epigenetic is the analysis of modifications of gene expression or function that do not involve a change in gene sequence. These changes generally result from alterations in microstructure (not code) of DNA itself or the associated chromatin proteins, leading to activation or silencing of specific genes. Examples are alterations of DNA methylation and histone modifications that can be acquired as a result of environmental influences or other factors. In many cases, epigenetic changes represent examples of gene-environment interactions that contribute to pathogenesis of disease. Importantly, these epigenetic modifications can be transmitted to subsequent generations as stably heritable phenotypic changes.

Environmental exposures including endocrine disruptors, temperature, natural disaster, intrauterine metabolism, diet, drugs and any kinds of stress have been demonstrated to engender the epigenetic transgenerational inheritance of endocrine and cardio-metabolic disorders such as obesity and diabetes.

The ancestral exposures to the toxic substances several generations before still plays as the risk factors to promote disease susceptibility such as cardio-metabolic health today. Therefore, epigenetic changes that occurred to DNA of your great-grandmother during pregnancy can be maintained and passed down to the next generations. Unequal exposure to environment pollutants may contribute in the pathogenesis of diabetes among minority and low-income population. When mothers are exposed to severe malnutrition or over-nutrition during pregnancy, the offspring are a greater risk of development of obesity, type-2 DM and metabolic syndrome in later life.

Recently studies show that epigenetic modification such as DNA methylation and histone modification that alter DNA accessibility and chromatin structure in thyroid cancer, which could provide new opportunities for the identification of novel molecular targets for proper treatment modalities, especially in anaplastic thyroid cancer that has a very grave prognosis.

In conclusion, recent advances in the understanding of the role that gene-environment interactions play as risk factors to promote disease susceptibility such as cardio-metabolic health; epigenetic alterations on cancer biology have provided unexpected insights into the mysteries of chromatin modulators as the potential therapeutic modalities for a variety of endocrine cancers.

L7

Speaker :

馬國興

Kuo-Hsing Ma

Current Position:
Director, Department of Research and Development, National Defense Medical Center
國防醫學院研究發展室 主任
Professor, Graduate Institute of Biology and Anatomy, National Defense Medical Center
國防醫學院生物及解剖學研究所 教授

Education/Training:
1991-1994 B.S., School of Pharmacy, National Defense Medical Center
1995-1997 M.S., Graduate Institute of Biology and Anatomy, National Defense Medical Center
1999-2002 Ph.D., Graduate Institute of Life Sciences, National Defense Medical Center

Professional and Research Experience:
2003-2008 Assistant Professor, Graduate Institute of Biology and Anatomy,
National Defense Medical Center
2008-2012 Associate Professor, Graduate Institute of Biology and Anatomy,
National Defense Medical Center
2012-2017 Director, Graduate Institute of Biology and Anatomy, National Defense Medical Center
2012-Professor, Graduate Institute of Biology and Anatomy, National Defense Medical Center
2019-Director, Department of Research and Development, National Defense Medical Center

Awards and Honors:
2018 梁序穆暨許纖雲教授基金會傑出研究獎
2016 國防部優良教師獎
2016 國家新創獎
2014 盧致德先生 SCI/SSCI 優良醫學論文獎
2013 國防醫學研究發展計畫成果發表績優獎

Selected Publications:
1. Weng SJ, Li IH, Huang YS, Chueh SH, Chou TK, Huang SY, Shiue CY, Cheng CY, **Ma KH***. KA-bridged transplantation of mesencephalic tissue and olfactory ensheathing cells in a Parkinsonian rat model. *J Tissue Eng Regen Med.* 2017 ;11(7):2024-2033.
2. **Ma KH**, Liu TT, Weng SJ, Chen CF, Huang YS, Chueh SH, Liao MH, Chang KW, Sung CC, Hsu TH, Huang WS, Cheng CY*. Effects of dextromethorphan on MDMA-induced serotonergic aberration in the brains of non-human primates using [123I]-ADAM/SPECT. *Scientific Reports*. 2016; 6: 38695.
3. Huang YS, Li IH, Chueh SH, Hueng DY, Tai MC, Liang CM, Lien SB, Sytwu HK, **Ma KH***. Mesenchymal stem cells from rat olfactory bulbs can differentiate into cells with cardiomyocyte characteristics. *J Tissue Eng Regen Med.* 2015 ;9(12): 191–201.
4. Kang HH, Wang CH, Chen HC, Li IH, Cheng CY, Liu RS, Huang WS, Shiue CY, **Ma KH***. Investigating the effects of noise-induced hearing loss on serotonin transporters in rat brain using 4-[18F]-ADAM/small animal PET. *NeuroImage*. 2013 ;75:262-9.

3 月 23 日 (週六) 09:50-11:00
3 樓，第 32 教室

Investigating serotonergic aberration in various animal models using 4-[^{18}F] ADAM/ PET
運用 4-[^{18}F] ADAM/ PET 在各種動物模式研究血清素系統的異常

Kuo-Hsing Ma
Director, Department of Research and Development, National Defense Medical Center
Professor, Graduate Institute of Biology and Anatomy, National Defense Medical Center

The abnormality of serotonergic system is implicated in many psychiatric disorders and neurologic diseases such as depression, obsessive-compulsive disorder, Parkinson's disease, and Alzheimer's disease. The cell bodies of serotonergic neurons are situated in the raphe nuclei with their fibers projecting to almost all the brain regions. The physiopathological roles of respective serotonergic pathway remain to be explored in the complex brain networks. About ten year ago, our research team developed a radioligand, N,N-dimethyl-2-(2-amino-4-[^{18}F]fluorophenylthio) benzylamine (4-[^{18}F]-ADAM), which demonstrated high specificity and selectively to serotonin transporters (SERTs) in the brains of rats , monkeys, and humans. The serotonin transporters are membrane proteins on the serotonergic neuron dedicated to serotonin reuptake. SERTs levels of a brain could reflect the status of a serotonergic system and therefore can be employed as biomarkers in various disease models. By using4-[^{18}F]-ADAM coupled with positron emission tomography (PET), SERTs levels at different brain regions can be measured in vivo. The application of this imaging technique may expedite the progress in identifying physiopathological roles of serotonergic system in various animal disease models.

L8

Speaker :

陳瑞華

Ruey-Hwa Chen

Current Position:
Distinguished Research Fellow, Institute of Biological Chemistry, Academia Sinica
中研院生化所特聘研究員

Education/Training:
National Taiwan University, Agricultural Chemistry, B.Sc., 1979-1983
National Taiwan University, Biochemical Science, M.S., 1983-1985
Michigan State University, Biochemistry, Ph. D., 1987-1991

Professional and Research Experience:

2012-now	Distinguished Research Fellow, Institute of Biological Chemistry, Academia Sincia, Taipei, Taiwan
2006-2012	Research Fellow, Institute of Biological Chemistry, Academia Sincia, Taipei, Taiwan
1996-2006	Associate professor and Professor, Institute of Molecular Medicine, National Taiwan University, Taipei, Taiwan
1992-1996	Postdoctoral Fellow and Assistant Biochemist, University California at San Francisco

Awards and Honors:
Taiwan Outstanding Women in Science, Wu Chien-Shiung Education Foundation (吳健雄教育基金會台灣傑出女科學家獎), 2016
Merit MOST Research Fellow Award (科技部傑出特約研究員獎), 2016
The 59th Academic Award, The Ministry of Education (第 59 屆教育部學術獎), 2015
TBF (Taiwan Biotechnology Foundation) Chair in Biotechnology (台灣生技醫藥發展基金會生技講座), 2014
The 9th Outstanding Award, TienTe Lee Biomedical Foundation (李天德醫藥基金會卓越醫藥科技獎), 2013

Selected Publications:
1. Wang, Y.-T., J. Chen, C.-W. Chang, J. Jen, T.-Y. Huang, C.-M. Chen, R. Shen, S.-Y. Liang, I.-C. Chen, S.-C. Yang, W.-W. Lai, K-H. Cheng, T.-S. Hsieh, M.-Z. Lai, H.-C. Cheng, Y.-C. Wang, and **R.-H. Chen*** (2017) Ubiquitination of tumor suppressor PML regulates immunosuppressive and pro-metastatic tumor microenvironment. J Clin Invest 127: 2982-2997.
2. Liu, C.-C., Y.-C. Lin, Y.-H. Chen, C.-M. Chen, L.-Y. Pang, H.-A. Chen, P.-R. Wu, M.-Y. Lin, S.-T Jiang, T.-F. Tai, and **R.-H. Chen*** (2016) Cul3-KLHL20 ubiquitin ligase governs the turnover of ULK1 and VPS34 complexes to control autophagy termination. Mol Cell 61: 84-97.
3. Lin, Y.-C., L.-T. Lu, H.-Y. Chen, X. Duan, X. Lin, X.-H. Feng, M.-J. Tang, and **R.-H. Chen*** (2014) SCPs suppress renal cell carcinoma by stabilizing PML and inhibiting mTOR/HIF signaling. Cancer Res. 74: 6935-6946.
4. Yuan, W.-C., Y.-R. Lee, S.-Y. Lin, J.-C. Kuo, Y. P. Tan, L.-Y. Chang, C.-H. Liu, M.-Y. Lin, M. Xu, Z. J. Chen, and **R.-H. Chen*** (2014) K33-linked polyubiquitination of coronin 7 by Cul3-KLHL20 ubiquitin ligase regulates protein trafficking. Mol Cell 54: 586-600.

3 月 23 日 (週六) 09:50-11:00
3 樓，第 33 教室

BIK ubiquitination controls life-death fate of cellular stress responses and anti-tumor activity

Ruey-Hwa Chen
Institute of Biological Chemistry, Academia Sinica

The BH3-only pro-apoptotic protein BIK is regulated by ubiquitin-proteasome system. However, the underlying mechanism of this regulation and its physiological functions remain elusive. Here, we identify a key role of the E3 ligase CRL5ASB11 in targeting BIK for ubiquitination and degradation and the mechanisms through which ER stress and DNA damage regulate this BIK ubiquitination to determine the life-death cell fate. Under ER stress, ASB11 is transcriptionally activated by XBP1s during the adaptive phase of unfolded protein response, thereby stimulating BIK ubiquitination, interaction with p97/VCP, and proteolysis. This BIK degradation mechanism potentiates cell survival to allow time for adaptation to ER stress and its inhibition causes apoptotic cell death at the early stage of UPR. Conversely, genotoxic agents act through p53 to downregulate IRE1α/XBP1s/ASB11 axis, leading to BIK stabilization. This mechanism participates in part to the apoptotic response to DNA damage. We further exploit the $CRL5^{ASB11}$-mediated BIK degradation pathway to design an anti-cancer regimen and show that blockage of this ubiquitination pathway by IRE1α inhibitors stabilizes BIK active mutant and increases its anti-tumor efficacy. Our study identifies a BIK ubiquitin ligase, uncovers the opposite regulations of this BIK ubiquitination pathway by different cellular stresses for determining cell life-death decision, and develops an anti-cancer strategy by targeting BIK ubiquitination pathway in combined with the active BIK gene therapy.

第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

研討會演講

Symposia

台灣藥理學會

主題：Redox Signalings and inflammation：From Bench to Practices
時間：108 年 3 月 24 日 (週日)
地點：1 樓，第 1 教室
主持人：楊春茂教授、吳錦楨教授

編號	時段	演講者 & 講題
S01	14:00-16:00	Mitochondrial Oxidative Stress Response in Drug Resistance and Metabolic Change of Cancer Cells 李新城教授 / Department & Institute of Pharmacology, School of Medicine, National Yang-Ming University
S02		The roles of oxysterol in cardiomyocyte pathophysiology and its implication in heart failure 鄭美玲教授 / Department of Biomedical Sciences, College of Medicine, and Metabolomics Core Laboratory, Healthy Aging Research Center, Chang Gung University
S03		The effects of chalcone derivatives on atherosclerosis, focus on endothelial cells and macrophages 林錦生副教授 / Attending Physician of Cardiology, Tri-Service General Hospital, Taipei, Taiwan
S04		Uncovering new tricks from old drugs for sepsis and heat stroke: potential indication for procainamide and misoprostol 施志勤副教授 / Department and Graduate Institute of Pharmacology National Defense Medical Center
S05		Silibinin attenuates alveolar bone loss in experimental periodontitis by targeting inflammatory pathways 鄭琬蒨助理教授 / Department of Periodontology, School of Dentistry, Tri-Service General Hospital and National Defense Medical Center, Taipei, Taiwan

中國生理學會

主題：Endocrinology
時間：108 年 3 月 23 日 (週六)
地點：1 樓，第 2 教室
主持人：黃娟娟教授

編號	時段	演講者 & 講題
S06	15:40-17:30	*Ad4BP/SF-1 more than a regulator of steroidogenesis* Prof. Ken-ichirou Morohashi/1, Department of Molecular Biology, Graduate School of Medical Sciences, Kyushu University 2, Graduate School of Systems Life Science, Kyushu University
S07		The role of estrogen receptors in osteogenesis of bone marrow mesenchymal stem cells Mei-Ling Ho (何美泠) / Department of Physiology, School of medicine, Kaohsiung Medical University
S08		Interactions between progesterone and folic acid in cell proliferation and migration Prof. Wen-Sen Lee (李文森) / Taipei Medical University
S09		Why does prostate cancer relapse from androgen-deprivation and androgen receptor therapies, what is next? Prof. Pei-Wen Hsiao (蕭培文) / Agricultural Biotechnology Research Center, Academia Sinica, Taipei, Taiwan

主題：Physiological Seminar
時間：108 年 3 月 24 日 (週日)
地點：1 樓，第 2 教室
主持人：陳景宗教授

編號	時段	演講者 & 講題
S10	13:35-15:45	Tissue-resident and blood-derived macrophages: the essential players in intracerebral hemorrhage recovery Prof. Che-Feng Chang (張哲逢) / Department of Physiology, National Taiwan University College of Medicine, Taipei, Taiwan
S11		Gut microbiota regulate social behavior via stress response pathways in the brain Prof. Wei-Li Wu (吳偉立) / Department of Physiology, College of Medicine, National Cheng Kung University
S12		Priming mechanosensitive mesenchymal stromal cells for osteogenic differentiation Prof. Yi-Shiuan Liu (劉懿璇) / Department of Physiology and Pharmacology, Chang Gung University
S13		A Reciprocal Regulation of microRNA and COUP-TFII Leads to Prostate Cancer Malignancy Prof. Shih-Chieh Lin (林世杰) / Institute of Basic Medical Sciences, College of Medicine, National Cheng-Kung University

中國免疫學會

主題：Immunoregulation and Immunotherapy
時間：108 年 3 月 23 日 (週六)
地點：3 樓，第 30 教室
主持人：郭敏玲教授、施修明理事長

編號	時段	演講者 & 講題
S14	14:30-16:30	Interleukin-24 Protests Against Liver Cirrhosis In Animal Models 張明熙教授 / Dept. Biochemistry and Molecular, NCKU, Taiwan
S15		A critical role of CD4+ T cells in mediating functional cure of chronic hepatitis B infection 陶秘華研究員 / Institute of Biomedical Sciences, Academia Sinica
S16		Striding across local barriers in the liver: a new concept for liver cancer immunotherapy 黃麗蓉助研究員 / Institute of Molecular and Genomic Medicine, National Health Research Institutes, Miaoli, TAIWAN
S17		Microglial Galectin-3 as an innate immune response regulator in the brain of Huntington's disease patients and mouse models 陳儀莊特聘研究員 / Taiwan International Graduate Program in Molecular Medicine, National Yang-Ming University and Academia Sinica/Institute of Biomedical Sciences, Academia Sinica, Taipei

主題：
時間：108 年 3 月 24 日 (週日)
地點：三軍總醫院，第二演講廳、第三演講廳
主持人：張德明院長、藍忠亮教授、謝世良教授、江伯倫副院長

編號	時段	演講者 & 講題
S18	09:10-09:40	Gene therapy for inherited disorders - Take Fabry disease as an example *牛道明教授 / Department of Pediatrics, Taipei Veterans General Hospital; Institute of Clinical medicine, National Yang-Ming University*
S19		Clinical phenotypes of autoantibodies in SARD 陳相成副教授 / Hsiang-Cheng Chen, MD, PhD, EMBA, FACR
S20	09:40-10:10	Inspection of the anticytokine autoantibodies in molecular level: a human monoclonal antibody approach 顧正崙副教授 /Laboratory of Human Immunology and Infectious Diseases, Graduate Institute of Clinical Medical Sciences, Chang Gung University
S21		Diagnosis and Management of Immunodeficiency- an update and beyond 楊崑德教授 / Mackay Children's Hospital, and Institute of Biomedical Sciences, Mackay Medical College

台灣分子生物影像學會

主題：
時間：108 年 3 月 23 日 (週六)
地點：2 樓，第 20 教室
主持人：顏若芳教授、黃文盛教授、王信二教授、陳傳霖教授

編號	時段	演講者 & 講題
S22	13:30-14:00	Targeted Radionuclide Theranostics in Prostate Cancer Ching-Chu Lu, MD, PhD /Department of Nuclear Medicine and PET center, National Taiwan University Hospital
S23	14:00-14:30	Ra-223 therapy for osteoblastic bone metastasis of mCRPC Yu-Yi Huang, MD/ Koo-Foundation, Sun Yat-Sen Cancer Center
S24	14:30-15:30	Peptide Receptor Radionuclide Therapy Chih-Hsien Chang, PhD/ Isotope Application Division , Institute of Nuclear Energy Research

主題：
時間：108 年 3 月 24 日 (週日)
地點：2 樓，第 20 教室
主持人：劉仁賢教授、楊邦宏教授

編號	時段	演講者 & 講題
S25	9:00-10:30	Constructing A New Translational Research Paradigm with Spontaneous Animal Models of Cancer Disease in Taiwan Tung-Hsin Wu, Ph.D./Medical Imaging Integration Labortory, Department of Biomedical Imaging and Radiological Sciences, National Yang Ming University

中華民國毒物學會

主題：Finding a better path to challenges in Toxicology for better Taiwan
時間：108 年 3 月 24 日 (週日)
地點：2 樓，第 29 教室
主持人：王應然教授

編號	時段	演講者 & 講題
S26	14:15-15:30	Fisetin Ameliorated Photodamage in human skin fibroblasts and mouse skin 江秀梅教授 / Department of Cosmeceutics, China Medical University, Professor/Director
S27		Food, Medicine, or Drug of Abuse 陳珮珊副教授 / Associate Professor of Department and Graduate Institute of Forensic Medicine. National Taiwan University
S28		Preventive Effects of Pterostilbene against Food Contaminants-Induced Toxicity through Autophagy Induction 陳容甄助理教授 / Assistant Professor, Department of Food Safety/ Hygiene and Risk Management, College of Medicine, National Cheng Kung University

中華民國細胞及分子生物學學會

主題：Immunoregulation and Immunotherapy
時間：108 年 3 月 23 日 (週六)
地點：3 樓，第 30 教室
主持人：郭敏玲教授、施修明理事長

編號	時段	演講者 & 講題
S14	14:30-16:30	Interleukin-24 Protests Against Liver Cirrhosis In Animal Models 張明熙教授 / Dept. Biochemistry and Molecular, NCKU, Taiwan
S15		A critical role of CD4+ T cells in mediating functional cure of chronic hepatitis B infection 陶秘華研究員 / Institute of Biomedical Sciences, Academia Sinica
S16		Striding across local barriers in the liver: a new concept for liver cancer immunotherapy 黃麗蓉助研究員 / Institute of Molecular and Genomic Medicine, National Health Research Institutes, Miaoli, TAIWAN
S17		Microglial Galectin-3 as an innate immune response regulator in the brain of Huntington's disease patients and mouse models 陳儀莊特聘研究員 / Taiwan International Graduate Program in Molecular Medicine, National Yang-Ming University and Academia Sinica/Institute of Biomedical Sciences, Academia Sinica, Taipei

中華民國解剖學會

主題：老化與修復
時間：108 年 3 月 23 日 (週六)
地點：3 樓，第 32 教室
主持人：鄭珈毘助理教授

編號	時段	演講者 & 講題
S29	13:30-15:30	Regulation of MMP-13 by PKR in the degenerated articular chondrocytes 謝佩伶 / Department of Anatomy, School of Medicine, China Medical University, Taichung, Taiwan
S30		Confronting antibiotic resistant bacteria via immunization 江明憲 / National Defense Medical Center Department and Graduate Institute of Biology and Anatomy
S31		bone to pick: O-GlcNAcylation, autophagy and aging 林能裕 / College of Medical, National Taiwan University Department of Anatomy and Cell Biology
S32		Shear-Induced CCN1 Promotes Atheroprone Endothelial Phenotypes and Atherosclerosis. 莫凡毅 / Department of Cell Biology and Anatomy, College of Medicine, National Cheng Kung University, Tainan, Taiwan

主題：解剖教學分享
時間：108 年 3 月 24 日 (週日)
地點：3 樓，第 32 教室
主持人：王霈助理教授

編號	時段	演講者 & 講題
S33	14:15-16:15	The anatomy-related course arrangement for medical students of the Tzu Chi University 曾國藩 / Department of Anatomy, College of Medicine, Tzu Chi University
S34		Enhancing Cognitive Empathy by Role Playing in Problem-based Learning 周逸鵬 / Department of Medicine, Mackay Medical College
S35		台大醫學系整合型課程發展 - 以解剖教學為例 賴逸儒 / Department of Anatomy and Cell Biology, College of Medicine, Fu Jen Catholic University
S36		Teaching guide and sharing for cardiovascular system development 李學德 / Institute of Anatomy & Cell Biology, National Yang-Ming University
S37		The Anatomy Teaching Experience in Fu Jen Catholic University 王霈 / College of Medicine, Fu Jen Catholic University

台灣生物化學及分子生物學會

主題：RNA Biology
時間：108 年 3 月 23 日 (週六)
地點：3 樓，第 33 教室
主持人：鄭子豪教授

編號	時段	演講者 & 講題
S38	13:30-15:30	"Micro" managing of "Linc" RNA: a motor neuron perspective 陳俊安助研究員 / Institute of Molecular Biology, Academia Sinica
S39		Contribution of RNA editing to tumorigenesis via targeting distinct coding and non-coding genes linked to malignancy 譚賢明教授 / Department of Biomedical Sciences, Chang Gung University
S40		Coordinated Regulation of Cardiac Fibrosis by Long Noncoding RNA Lnc-Fibrogen and ER-Resident Protein TXNDC5 楊鎧鍵助理教授 / Department and Graduate Institute of Pharmacology, National Taiwan University
S41		*LncHIFCAR:* an oncogenic lncRNA functions as a HIF-1α transcriptional coactivator driving oral cancer progression 施景文助理教授 / Graduate Institute of Cancer Biology and Drug Discovery, TMU Ph.D. Program for Cancer Biology and Drug Discovery, TMU Kung University, Tainan, Taiwan

主題：Structure Biology/Cry-EM
時間：108 年 3 月 24 日 (週日)
地點：3 樓，第 33 教室
主持人：蔡明道院士

編號	時段	演講者 & 講題
S42	14:30-16:30	Engaging with high-throughput cryo-EM instruments to access macromolecular structures in functional states 章為皓副研究員 / Institute of Chemistry, Academia Sinica
S43		Cryo-EM structure of mature Dengue Virus Serotype 2 Virus-Like Particle 吳尚蓉助理教授 / Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, Taiwan Institute of Oral Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan
S44		Cryo-EM and Enzymology: Cofactor specificity, pH dependence and divalent ions effect of ketol-acid reductoisomerase 陳青諭助理教授 / Department of Life Sciences, National Central University, Taoyuan, Taiwan
S45		Catalytic landscape structures of Glutamine Synthetase unveiled by cryogenic electron microscopy 吳昆峯助研究員 / Institute of Biological Chemistry, Academia Sinica

中華民國臨床生化學會

主題：
時間：108 年 3 月 23 日 (週六)
地點：3 樓，第 31 教室
主持人：方偉宏常務理事

編號	時段	演講者 & 講題
S46	13:30-14:30	When “high-tech” meets routine needs: strategy of application Mass Spectrometry in clinical lab of Taiwan Jun-Jen Liu / School of Medical Laboratory Science and Biotechnology, College of Medical Science and Technology, Taipei Medical University
S47		Lung Cancer Molecular Diagnostic Development from Laboratory Site to Clinical Site 蘇剛毅 / Department of Clinical Laboratory Sciences and Medical Biotechnology, College of Medicine
S48		Mass Spectrometry Applications in the Clinical Laboratory 林佳霓 / Department of Laboratory Medicine, Chang Gung Memorial Hospital

S1

3 月 24 日 (週日) 14:00-16:00
1 樓，第 1 教室

Speaker :
李新城
Hsin-Chen Lee[1,*]

Mitochondrial Oxidative Stress Response in Drug Resistance and Metabolic Change of Cancer Cells

Hsin-Chen Lee[1,*]
[1]Department and Institute of Pharmacology, School of Medicine, National Yang-Ming University, Taipei, Taiwan

Mitochondrial reactive oxygen species (ROS) have dual function to cause cellular damage and promote cell adaptation. The level of mitochondrial ROS determines its function and the physiological outcome. Very high levels of mitochondrial ROS directly damage proteins, lipids, and nucleic acids, while lower levels of mitochondrial ROS function as signaling molecules to adapt to the stress. Hypoxia, activation of oncogenes, mitochondrial DNA (mtDNA) mutations, and loss of tumor suppressors have all been shown to lead to a mitochondrial ROS dependent increases in tumorigenesis. This range of ROS is capable of increasing tumorigenesis by activating signaling pathways that regulate cellular proliferation, metabolic alterations, and angiogenesis. In past decades, both somatic mutations of mtDNA and a decrease of mtDNA copy number were demonstrated as two of the common events in various types of human cancer. Most of these mtDNA mutations may result in mitochondrial dysfunction and be correlated with poor prognosis of cancer patients. Recently, we found that mitochondrial dysfunction induces ROS at relative low levels, which trigger the GCN2-eIF2α-ATF4 pathway and xCT (SLC7A11) expression. Upregulated xCT was demonstrated to be responsible for increased cystine uptake and glutathione biosynthesis, which reduce cisplatin-induced oxidative damage and contribute to cisplatin resistance of cancer cells. The high expression of xCT also promotes cancer cell dependency to glucose and cystine. In addition, we found that cystine starvation causes mitochondrial dysfunction and induces high levels of ROS, which can upregulate CHAC1 expression via the GCN2-eIF2α-ATF4 pathway. CHAC1 degrades glutathione to promote cystine-starvation-induced necroptosis and ferroptosis. These findings suggest that the ROS-activated GCN2-eIF2α-ATF4 pathway is a common mitochondria-to-nucleus signaling pathway, by which mitochondria regulate cell fate and promote malignant progression of human cancer cells. Our findings will benefit to develop strategies for cancer therapy.

S2

3 月 24 日 (週日) 14:00-16:00
1 樓，第 1 教室

Speaker :
鄭美玲
Mei-Ling Cheng

The roles of oxysterol in cardiomyocyte pathophysiology and its implication in heart failure

Mei-Ling Cheng
Department of Biomedical Sciences, College of Medicine, and Metabolomics Core Laboratory, Healthy Aging Research Center, Chang Gung University, Taoyuan, Taiwan

Oxysterols are the oxidized products of cholesterol and considered as biologically active molecules. 7-Ketocholesterol (7KCh) is a major form of oxysterols, abundantly found in advanced atherosclerotic plaques and in the blood of patients with high risk of cardiovascular disease. Exposure to 7KCh promotes reactive oxygen species (ROS) formation, inflammation, ER stress, and lysosomal dysfunction in several types of cells. However, the role of oxysterols in heart or cardiomyocytes has not yet been investigated in detail. Here, we describe a mechanism by which 7KCh induces death of cardiomyocytes via mitochondrial impairment and ATF4 activation. Global metabolites analysis has shown that 7KCh inhibits ubiquinone biosynthesis pathway, and thereby enhances ROS formation and reduces oxidative phosphorylationin cardiomyocytes. Our findings suggest that 7KCh induces mitochondrial dysfunction, and the resulting mitochondrial stress leads to activation of ATF4/CHOP pathway and cardiomyocyte death. 7KCh can be a risk factor for heart failure, and is probably implicated in its pathophysiology.

S3

3 月 24 日 (週日) 14:00-16:00
1 樓，第 1 教室

Speaker :
林錦生
Chin-Sheng Lin

The effects of chalcone derivatives on atherosclerosis, focus on endothelial cells and macrophages

Chin-Sheng Lin
Division of Cardiology, Department of Medicine, Tri-Service General Hospital,
National Defense Medical Center, Taipei, Taiwan

Atherosclerosis, a chronic inflammation of arterial walls, consists of imbalanced lipid metabolism and endothelial dysfunction. Natural occurring chalcones have been claimed many pharmaceutical effects, including anti-inflammation, anti-oxidant, and anti-tumor activities. However, the anti-atherosclerotic effect of chalcones remains unknown. In this study, we aimed to develop powerful chalcone derivatives in experimental atherosclerosis. By comprehensive screening, we found that one of the chalcone derivatives, I17-6, strongly increased ATP binding cassette subfamily A member 1 (ABCA1) expression in both mRNA and protein levels, and promoted cholesterol efflux in THP-1 macrophages. Additionally, we found that treatment with I17-6 stabilized the ABCA1 mRNA and suppressed the expressions of potential miRNAs which regulate ABCA1 expressions, such as miR10b, miR27a, miR33 and miR106b. Moreover, I17-6 significantly inhibited tumor necrosis factor (TNF)-α-induced intercellular adhesion molecule-1 (ICAM-1) and vascular cell adhesion protein 1 (VCAM1-1) mRNA and protein levels and decreased TNF-α-induced proinflammatory cytokines expression, including interleukin (IL)-6, IL-8, and monocyte chemoattractant protein-1 (MCP-1), in human umbilical vein endothelial cells (HUVECs). The effects of I17-6 on cholesterol efflux and endothelial dysfunction are possible through the regulation of heme oxygenase-1 (HO-1) signaling. Finally, we found that I17-6 halted atherosclerosis progression in low-density lipoprotein receptor knockout ($Ldlr^{-/-}$) mice fed with high-fat diet. Our study demonstrated the therapeutic potential of I17-6 in the treatment of atherosclerotic cardiovascular disease.There are societal and technical challenges, however, for precision medicine to be successful. Besides the acceptance of precision medicine by the population, other near-term obstacles include cost of building population references, creating a database of genetic variability, deepening our biological knowledge, and developing sound data mining methods.

With inter-disciplinary efforts and support from all the stakeholders, Taiwan can bring precision medicine to the clinic in the near future.

Keywords: Atherosclerosis, ABCA1, cholesterol efflux, HO-1, endothelial dysfunction, plaque formation.

S4

3 月 24 日 (週日) 14:00-16:00
1 樓，第 1 教室

Speaker :

施志勤

Chih-Chin Shih

Uncovering new tricks from old drugs for sepsis and heat stroke: potential indication for procainamide and misoprostol

Chih-Chin Shih
Department and Graduate Institute of Pharmacology, National Defense Medical Center, Taipei, R.O.C., Taiwan

Identifying potential drugs for sepsis and heat stroke is urgently needed. Microbial infection-induced DNA hypermethylation is associated with the augmentation of inflammation and oxidative stress. The antiarrhythmic drug procainamide is a non-nucleoside inhibitor of DNA methyltransferase 1 (DNMT1) used to alleviate DNA hypermethylation. Thus, we evaluated effects of procainamide on the development of circulatory failure and multiple organ dysfunction in rats with endotoxic shock. In addition, blood shifts preferentially from the mesenteric circulation to the skin during hyperthermia, leading to gut injury and endotoxin-mediated shock syndrome. Prostaglandin E1 (PGE1) analog, misoprostol, has been shown to attenuate intestine injury and diminish the production of reactive oxygen species and cytokines. Therefore, we assessed the effects of misoprostol on serious complications caused by heat stroke in rats. Our results showed that treatment of endotoxemic animals with procainamide not only inhibited DNMT1 and 5-methylcytosine levels, but also diminished neutrophil infiltration and superoxide production in the lung. The overproduction of IL-6 and NO were also ameliorated in endotoxemic rats treated with procainamide. Furthermore, procainamide improved hypotension, hypoglycemia, multiple organ dysfunction, metabolic acidosis, and electrolytes disturbance in rats with endotoxic shock. These data imply that procainamide could have new potential use in sepsis. Likewise, misoprostol improved hypotension, hypoperfusion, multiple organ dysfunction, and coagulopathy in rats with heat stroke through the suppression of COX-2 expression, apoptosis, and NO formation. This old drug could have promising potential for the treatment of heat stroke.

S5

3 月 24 日 (週日) 14:00-16:00
1 樓，第 1 教室

Speaker :

鄭琬蒨

Wan-Chien Cheng

Silibinin attenuates alveolar bone loss in experimental periodontitis by targeting inflammatory pathways

Wan-Chien Cheng
Department of Periodontology, School of Dentistry, Tri-Service General Hospital and National Defense Medical Center, Taipei, Taiwan

P Periodontitis (PD) is a chronic inflammatory disease characterized by tissue inflammation and destruction of the associated alveolar bone. It is caused by the colonization of the bacterial plaque biofilm and the resultant host immune responses in the surrounding periodontal tissues. The present study investigated the effects of silibinin on alveolar bone destruction *in vivo* and the mechanisms by which it exerts these effects *in vitro*. Ligature-induced experimental periodontitis was established to evaluate the therapeutic benefits of silibinin *in vivo*. The tartrate-resistant acid phosphatase (TRAP) staining, quantitative RT-PCR, gelatin zymography were used to analyze the effect of silibinin on receptor activator of nuclear factor κB ligand (RANKL)-induced osteoclast differentiation. RT-PCR, ELISA and flow cytometry were used to analyze the anti-inflammatory effect of silibinin on LPS-stimulated gingival fibroblasts. The results showed that silibinin reduced alveolar bone destruction, decreased inflammatory cells infiltration, RANKL expressing and TRAP-positive cells *in vivo.* Silibinin dose dependently diminished RANKL-induced osteoclast differentiation of RAW264.7 cells. Moreover, silibinin decreased the expression and production of pro-inflammatory cytokines and RANKL by LPS-stimulated gingival fibroblasts. These results suggest that the capability of silibinin in regulating inflammatory response may have a therapeutic potential to the inflammation-induced bone destruction in periodontitis.

S6

3 月 23 日 (週六) 15:40-17:30
1 樓，第 2 教室

Speaker :

Ken-ichirou Morohashi

Ad4BP/SF-1 more than a regulator of steroidogenesis

Ken-ichirou Morohashi
1.Department of Molecular Biology, Graduate School of Medical Sciences, Kyushu University
2.Graduate School of Systems Life Science, Kyushu University

Ad4BP (SF-1, NR5A1), a member of a nuclear receptor family, has been known to play a crucial role in steroidogenic gene transcription in the gonads and adrenal cortex. Indeed, many studies have accumulated evidences indicating that all steroidogenic genes are the direct targets of Ad4BP/SF-1. In addition to the steroidogenic gene regulation, in vivo gene disruption studies clearly unveiled that the steroidogenic organs disappeared from the gene disrupted mice, suggesting that Ad4BP/SF-1 is essential for the development of the gonads and adrenal gland. However, it remained to be delineated how Ad4BP/SF-1 regulates the development of the steroidogenic cells (why those organs disappeared from the KO mice), and which genes other than steroidogenic genes are the targets of Ad4BP/SF-1.

To gain the answers to the questions above, we surveyed the target genes of Ad4BP/SF-1 in the steroidogenic cells by mRNA deep sequencing and ChIP-sequence. As the consequence, nearly all genes of the glycolytic pathway were found to be regulated directly by Ad4BP/SF-1. Moreover, our recent study revealed that nearly all cholesterogenic genes and key genes for NADPH production are the direct targets. These regulations of the metabolic pathways by Ad4BP/SF-1 were supported by biochemical studies to measure concentrations of ATP, NADPH, and cholesterol, and to determine the glycolytic and cholesterogenic activities. Considering that sufficient supply of cholesterol and NADPH are necessary for efficient steroidogenesis, and that of acetyl-CoA, ATP and NADPH are necessary for efficient cholesterogenesis, Ad4BP/SF-1 possibly orchestrates the house-keeping metabolisms, glycolysis, NADPH synthesis, and cholesterogenesis, to accomplish efficient steroidogenesis. In addition to steroidogenesis, the energized molecules, ATP and NADPH, are required definitely for production of various cellular components. Decreased concentration of these molecules in Ad4BP/SF-1 disrupted cells might result in disappearance of the steroidogenic organs from the KO mice.

S7

3 月 23 日 (週六) 15:40-17:30
1 樓，第 2 教室

Speaker :
何美泠
Mei-Ling Ho

The role of estrogen receptors in osteogenesis of bone marrow mesenchymal stem cells

Mei-Ling Ho
Department of Physiology, School of medicine, Kaohsiung Medical University

Estrogen plays an important role in regulating bone remodeling by suppressing the activity of osteoclasts involved in bone resorption and by enhancing osteoblast activities involved in bone formation. Estrogen promotes osteogenic differentiation by promoting BMP-2 transcription, RUNX2 gene expression, and Alkaline phosphatase (ALP) activity in osteoblasts and bone marrow mesenchymal stem cells (BMSCs). Two classes of estrogen receptor exist: (1) traditional estrogen receptors (ERα and ERβ), the nuclear steroid hormone receptors; and (2) G protein-coupled estrogen receptor-1 (GPER-1), the extra-nuclear receptor. ERα has known to induce estrogen-dependent gene expression that promotes osteogenesis ; however, the role of GPER-1 in osteogenesis remains undefined. Interestingly, several reports indicated that ER-mediated osteogenic differentiation does not require estrogen as a ligand. Recently, we firstly found that simvastatin, a lipid–lowering agent, acts as an ERα ligand and a co-activator to enhance ERα-dependent transcriptional activity and thus promotes osteogenesis. Our finding indicates that simvastatin-induced osteogenesis is mediated via an Erα, but not GPER1 mediated pathway in BMSCs. We further found that GPER-1 mediation enhances proliferation but suppresses osteogenic differentiation in BMSCs. Our ongoing research preliminarily found that GPER-1 may play an important role in regulating the endochondral bone formation at growth plate during puberty.

S8

3 月 23 日 (週六) 15:40-17:30
1 樓，第 2 教室

Speaker :
李文森
Wen-Sen Lee

Interactions between progesterone and folic acid in cell proliferation and migration

Wen-Sen Lee
Taipei Medical University

Taking FA before and during pregnancy has been suggested to help prevent birth defects in the baby's brain and spinal cord. However, we found that folic acid (FA) exerts an anti-angiogenic activity. Since angiogenesis is important for endometrial reorganization and embryonic development, there should be some mechanisms to allow the pregnant mother and the fetus to escape from the FA-induced anti-angiogenesis. Using immunoprecipitation technique, we demonstrated that FA receptor (FR) formed a complex with progesterone receptor (PR), estradiol receptor (ER) and cSrc in human umbilical venous endothelial cells (HUVEC). This finding led us to propose that high concentrations of female sex hormones in the maternal blood might protect the fetus and the pregnant mother to escape from the FA-induced anti-angiogenesis. Administration of progesterone (P4) or estradiol (E2) at pregnancy levels prevented FA-induced inhibitions of proliferation and migration in the cultured HUVEC. Both E2 and P4 also prevented the FA-induced anti-angiogenesis in vivo. Moreover, co-treatment with P4 or E2 and FA interrupted the signaling pathways involved in FA-inhibited endothelial cell proliferation and migration. These findings suggest that female sex hormones interrupted the FA-induced anti-angiogenic action through receptor-receptor interaction. Similar findings also observed in the FA-treated cancer cell lines. Interestingly, we found that treatment with FA alone can cause PR activation and knock-down of PR abolished the FA-regulated cell proliferation and migration, suggesting that PR activation is required for FA-regulated cell proliferation and migration. We also demonstrated that alterations of the cSrc-mediated signaling pathway play important roles in P4-induced inhibitions of the FA-regulated cell proliferation and migration. Understanding the interactions between female sex hormones and folic acid might help us getting insight how female sex hormones affect the biologic actions and the potential clinical applications of FA.

S9

3 月 23 日 (週六) 15:40-17:30
1 樓，第 2 教室

Speaker :

蕭培文
Pei-Wen Hsiao

Why does prostate cancer relapse from androgen-deprivation and androgen receptor therapies, what is next?

Pei-Wen Hsiao
Agricultural Biotechnology Research Center, Academia Sinica, Taipei, Taiwan

Androgen-deprivation therapy (ADT) has been the first-line systemic therapy for prostate cancer (PCa) for decades. Despite all available treatments, the vast majority of PCa express androgen receptor (AR) throughout disease progression. In many ways, AR resumed its function upon ADT, enabling the castration-resistant prostate cancer (CRPC). High activities of receptor tyrosine kinases (RTKs) are frequently detected in advanced PCa. However, Phase III clinical trials of kinase inhibitors and RTK antibodies have produced disappointing results in advanced PCa. Identification of novel targets and anti-cancer agents for the treatment of advanced PCa have been hampered by lack of knowledge and biological model regarding PCa progression. We modeled the development of metastatic CRPC (mCRPC) in vivo, revealing the metastatic progression is driven by autonomous binding of galectin-4-O-glycans to PCa cells. Galectin-4 expression is also upregulated during the CRPC progression in vivo. Mechanistically, the O-glycans modify multiple receptor tyrosine kinases expressed in PCa cells, mediating the oncogenic role of galectin-4 by reprograming cancer stem cell (CSC). In clinical PCa, overexpression of galectin-4 and MYC-regulated C1GALT1 distinguishes a subtype of aggressive PCa from the indolent, where overexpressing both exhibits high risk of recurrence and metastasis vs. double-negative tumors [overall survival: 2-6 years in 36/231 (16%) subjects vs. >10 years in 111/231 (48%) subjects]. By genetic knockin, we tagged the sox9 gene in mCRPC cells with dual-reporters to guide our purification of phytocompounds. Several candidates inhibiting CSC and mCRPC have been identified for our future studies.

S10

3 月 24 日 (週日) 13:35-15:45
1 樓，第 2 教室

Speaker :
張哲逢
Che-Feng Chang

Tissue-resident and blood-derived macrophages: the essential players in intracerebral hemorrhage recovery

Che-Feng Chang
Department of Physiology, National Taiwan University College of Medicine, Taipei, Taiwan

CNS tissue-resident (microglia) and monocyte-derived macrophages (MDMs) are innate immune cells that are involved in proinflammatory response and tissue repair in intracerebral hemorrhage (ICH). Our previous studies have shown that MDMs aggravate early brain injury after ICH; however, the MDMs also increase level of alternatively activated marker CD36 over time. The mechanism that mediates MDMs phenotypic change in the ICH brain is elusive. In this study, we delineated the dynamic transcriptome profile of MDMs after ICH and tested mediators that potentially modulate MDMs polarity in ICH brain. Here, we showed that MDMs-mediated efferocytosis contributes to both red blood cells (RBC) removal and resolution of inflammation in the post-ICH brain. In mouse models of ICH, we found that recovery of neurological function required migration of MDMs to the injury site. RBC in the injured brain externalize phosphatidylserine, a signal that induces efferocytosis by MDMs through the AXL and MERTK tyrosine kinase receptors. RBC efferocytosis enhanced recovery from ICH by inhibiting inflammation and promoting a reparative macrophage phenotype. Examination of ICH patients corroborated the role of AXL- and MERTK-positive macrophage recruitment in recovery, supporting that MDMs-targeting strategies may be beneficial in the setting of acute brain injury. We also found that MDMs have greater phagocytic ability than microglia. Microglia and MDMs have distinct phagocytic preferences such that microglia tend to engulf myelin debris while MDMs preferentially phagocytose RBC in the ICH brain. In addition, they express distinct transcriptional signatures. In sum, local niches in the ICH brain sculpt divergent microglia and MDMs activities and instruct the two cell populations to perform distinct phagocytotic functions to work together in reducing CNS burden. Cell specific therapeutics to individually target microglia and MDMs would be necessary for treating ICH.

S11

3 月 24 日 (週日) 13:35-15:45
1 樓，第 2 教室

Speaker :
吳偉立
Wei-Li Wu

Gut microbiota regulate social behavior via stress response pathways in the brain

Wei-Li Wu
Department of Physiology, College of Medicine, National Cheng Kung University

Social impairment is a major symptom of neuropsychiatric conditions, such as autism spectrum disorder (ASD), schizophrenia, anxiety and depression. While the microbiome has been linked to social interaction in animals, gut-brain connections that regulate this complex behavior remain entirely undescribed. Herein, we demonstrate that depletion of microbiota in mice not only impairs social behavior, but also activates specific brain regions related to canonical stress responses. Social deviation in germ-free and antibiotic-treated mice is associated with elevated levels of the stress hormone corticosterone, which is primarily produced via activation of hypothalamus-pituitary-adrenal (HPA) axis. Accordingly, removal of the adrenal gland, antagonism of the glucocorticoid receptor, and pharmacological inhibition of corticosterone synthesis effectively correct social deficits. Genetic ablation of the glucocorticoid receptor in specific brain regions and chemogenetic inactivation of hypothalamic neurons dramatically increase social behavior. Further, we identify specific bacterial metabolites that suppress activation of the HPA axis and improve social impairment. These findings reveal that the gut microbiome regulates social behavior by co-opting neuronal circuits that control stress responses in mice.

S12

3 月 24 日 (週日) 13:35-15:45
1 樓，第 2 教室

Speaker :
劉懿璇
Yi-Shiuan Liu

Priming mechanosensitive mesenchymal stromal cells for osteogenic differentiation

Yi-Shiuan Liu
Department of Physiology and Pharmacology, Chang Gung University

Mesenchymal stromal/stem cells (MSCs) are multipotent stem cells and can be isolated from human tissues like bone marrow, adipose tissue, and umbilical cord matrix. MSCs possess promising potential in clinical application due to their immunomodulatory effects and the abilities to give rise to various mature progenies, such as osteoblasts, adipocytes, myocytes, and chondrocytes both in vivo and in vitro. In addition to biochemical regulation, the mechanical properties of the microenvironments can also regulate the proliferation and differentiation of MSCs. It has been shown that matrix stiffness and dimensionality regulate MSCs toward bone lineage (osteogenic differentiation). Additionally, shear stress, exerted by different physical activities crossing bone cells and precursor cells, plays a role in bone homeostasis as well. Intermittent fluid shear stress (IFSS), a potent and physiologically relevant mechanical stimulus, regulates osteogenic differentiation of MSCs through Transient receptor potential melastatin 7 (TRPM7) - Osterix axis. Immunostaining showed the localization of TRPM7 near or at cell membrane upon IFSS. Expressions of osteogenic marker genes and phosphorylation of p38 and Smad1/5 were promoted by IFSS as well. TRPM7 gene knockdown abolished the promotion of bone-related gene expressions and phosphorylation. The results indicated that mechanosensitive MSCs respond to shear force and pressure loading through distinct signaling pathways and are modulated by TRPM7. These studies elucidate the mechanotransduction in MSCs fate commitments and display an efficient mechano-modulation for MSCs osteogenic differentiation. Such findings should be taken into consideration when designing relevant scaffolds and microfluidic devices for tissue engineering and regenerative medicine.

S13

3 月 24 日 (週日 13:35-15:45)
1 樓，第 2 教室

Speaker :
林世杰
Shih-Chieh Lin

A Reciprocal Regulation of microRNA and COUP-TFII Leads to Prostate Cancer Malignancy

Yi-Shiuan Liu
Institute of Basic Medical Sciences, College of Medicine, National Cheng-Kung University

Prostate cancer is a common malignancy among men worldwide. Although early detection and treatment of localized prostate cancer (PCa) improve outcomes, many men still die because of metastatic PCa and drug resistance. Therefore, to investigate their underlying mechanisms will help us to innovate alternative therapy for malignant prostate cancer. Previously, it has been known that COUP transcription factor II (COUP-TFII) is overexpressed in the primary PCa specimens and plays crucial role in the early development of prostate cancer. However, the underlying mechanism causing COUP-TFII overexpression and the role of COUP-TFII in the metastatic PCa and drug resistance remain largely undefined. Here, we found that several microRNAs can target to COUP-TFII 3' untranslated region (3' UTR) through bioinformatics analysis. Interestingly, the levels of those upstream microRNAs including miR-101, miR-27a, and miR-27b were decreased in the prostate cancer specimens and further decreased in the metastatic PCa. Furthermore, these microRNAs negatively correlated with COUP-TFII levels in clinical specimens and negatively regulate COUP-TFII protein expression. Functional analysis demonstrated that loss of miR-101-induced prostate cancer cell migration and invasion were mediated by COUP-TFII in vitro and in vivo. In addition, we found that COUP-TFII regulated a metastatic network through regulation of CENPF and FOXM1, two master regulators in the PCa. More importantly, COUP-TFII-induced miR-21, a downstream microRNA, contributed to drug resistance of second generation anti-androgen through inhibition of Hippo signaling pathway in vitro and in vivo. In conclusion, our data demonstrates that a reciprocal regulation of microRNA and COUP-TFII plays an indispensable role in the development of malignant PCa. Targeting COUP-TFII might alleviate malignancy of prostate cancer in the future.

S14

3 月 23 日 (週六) 14:30-16:30
3 樓，第 30 教室

Speaker :
張明熙
Ming-Shi Chang

Interleukin-24 Protests Against Liver Cirrhosis In Animal Models

Ming-Shi Chang
Dept. Biochemistry and Molecular, NCKU, Taiwan

Liver fibrosis is due to excessive deposition of extracellular matrix. The continual damage of fibrosis causes liver cirrhosis and finally develops to hepatoma. Interleukin-20 (IL-20) and Interleukin-24 (IL-24) binds to two kinds of receptor complexes, either IL-20R1/IL-20R2 or IL-20R2/IL-22R1. Previously, we found IL-20 played an important role in the liver fibrosis and IL-20R1-deficient mice have protective effects in the animal models of hepatic fibrosis. However, IL-20R2- deficient mice have more severe liver damage than the control wild-type mice in the liver injury animal models. It indicates that interleukin-24 (IL-24), which shares the same receptor as IL-20, may also participate in the pathogenesis of liver fibrosis. Thus, we aimed to explore the role of IL-24 during the liver fibrosis progression. The intramuscular electroporation of pcDNA3.1-IL-24 DNA or intraperitoneal injection of IL-24 recombinant protein significantly protected mice from thioacetamide(TAA)-induced liver injury with reduced liver function index (AST/ALT), increased survival rate and downregulated expression of several pro-inflammatory cytokines. Based on the results, we concluded that IL-24 plays a key protective role in the progression of liver injury. Therefore, IL-24 might a potential therapeutics for liver injury in the future.

S15

3 月 23 日 (週六) 14:30-16:30
3 樓，第 30 教室

Speaker :
陶秘華
Mi-Hua Tao

A critical role of CD4+ T cells in mediating functional cure of chronic hepatitis B infection

Mi-Hua Tao
Institute of Biomedical Sciences, Academia Sinica

Host adaptive immune responses play a key role in HBV control but also cause liver injury. It has long been thought that HBV-specific CD8+ T cells contribute to the control of HBV infection by killing infected hepatocytes or inhibiting viral replication through cytokine-mediated non-cytolytic mechanisms, and thus play a crucial role in determining the outcome of HBV infection. In chronic HBV, HBV-specific CD8+ T cells display exhausted phenotypes and are functionally inactive. Therefore, many efforts are trying to boost HBV-specific CD8+ T cell responses in chronic patients to achieve sustained viral control with limited success. The role of CD4+ T cells in controlling chronic HBV is less well studied. In this study, we applied a chronic HBV mouse mode generated by adeno-associated viruses containing HBV genomes (AAV/HBV) to address the relative contribution of CD4+ T cells versus CD8+ T cells. Compared with other chronic AAV/HBV induced persistent infection in the majority of transduced animals, with viral antigen production for up to one year, and, importantly, induced HBV-specific immune tolerance, recapitulating many virologic and immunologic features of chronic HBV patients. We demonstrate that CD4+ T cells play a critical role in boosting HBV-specific adaptive immunity and functional cure of chronic HBV. Detailed immunological events of this CD4+ T cell-dependent control of chronic HBV will be presented in the meeting.

S16

3 月 23 日 (週六) 14:30-16:30
3 樓，第 30 教室

Speaker :
黃麗蓉
Li-Rung Huang

Striding across local barriers in the liver: a new concept for liver cancer immunotherapy

Li-Rung Huang
Institute of Molecular and Genomic Medicine, National Health Research Institutes, Miaoli, TAIWAN

Hepatocellular carcinoma (HCC) is the sixth most common cancer and the second leading cause of cancer death in worldwide. There are still several unmet medical issues regarding the treatment of HCC patients. The recurrence rate of HCC is high. No systemic therapy has improved significant survival in patients with advanced hepatocellular carcinoma. Recently, immune checkpoint inhibitors and T-cell based therapy are investigated vigorously for treatment of various cancers. Anti-PD-1 treatment achieved around 20% objective response rate in HCC patients. High frequency of CD8+ T cells within the tumor is correlated with good prognosis whereas the presence of Foxp3+ Treg is associated with poor prognosis. A superior therapeutic strategy for cancer therapy is expected to have two arms of effector function, one is the direct cytotoxicity toward tumor cells for killing the tumor cells and for release of tumor associated antigen (TAA); the other is the immune modulation to reinforce the long-term immune surveillance against tumors. Since CD8+ cytotoxic T lymphocyte (CTL) response is critical for control of tumor progression, it will be important to investigate the modalities able to restore CTL responses in the tumor microenvironment (TME) in HCC in order to achieve cure of HCC. The lack of inflammation contributed to the incapability of vaccine-derived or adoptively transferred CTLs to eliminate virus-infected hepatocytes from the liver during chronic hepatitis B, which could be reversed by inflammatory stimuli induced by TLR agonists. However, TLR agonists alone could not eliminate virus-infected hepatocytes or cancer cells efficiently and it required the existence of virus- or tumor-specific effector T cells locally. This finding suggests that the expansion and effector functions of tumor-specific T cells play the critical role in elimination of tumor cells. We therefore examined whether engineering CTLs to enhance their proliferation, cytokine production and cytotoxicity could overcome the immunosuppressive TME and found that the engineered CTLs underwent vigorous intratumoral clonal expansion. Moreover, these super-charged CTLs themselves efficiently changed suppressive TME, activated tumoricidal macrophages and subsequently eliminate tumor cells in a HCC mouse model. Our finding strongly suggests that CTLs with superior effector functions are enough to turn cold tumor hot, which may be applied in the T-cell engineering of cancer therapy.

S17

3 月 23 日 (週六) 14:30-16:30
3 樓，第 30 教室

Speaker :
陳儀莊
Yijuang Chern

Microglial Galectin-3 as an innate immune response regulator in the brain of Huntington's disease patients and mouse models

Yijuang Chern
Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan

Huntington's disease (HD) is an autosomal dominant neurodegenerative disorder that manifests with movement dysfunction and cognitive decline. The disease-causing mutation is an expansion of CAG repeats in the Huntingtin gene. The resultant mutant Huntingtin (mHTT) is present in brain cells including microglia, the key innate immune cells of the brain. Galectin-3 (Gal3) is a lectin that binds to β-galactosides. Although Gal3 has been implicated in brain diseases, its function remains elusive. Our findings showed that the plasma Gal3 levels in HD patients and mice were higher than that in controls and correlated with disease severity. The levels of Gal3 in brains of HD patients and mouse models (R6/2) were also higher than those in the controls. The up-regulation of Gal3 by mHTT was cell-autonomous because this phenotype was observed in primary microglia. Further analyses indicate that the up-regulation of Gal3 in microglia contributed to inflammatory responses through NFκB and NLRP3 inflammasome-dependent pathways. Importantly, a portion of Gal3 appeared as puncta on lysosomal vesicles, indicating impairments of lysosomes. Knockdown of Gal3 suppressed inflammation, reduced mHTT aggregation, restored neuronal DARPP32 levels, and ameliorated motor dysfunction and shortened survival in R6/2 mice. Collectively, the suppression of Gal3 normalized the microglia-mediated pathogenesis, which suggests that Gal3 may be a novel therapeutic target for HD and other degenerative diseases as well.

S18

3 月 24 日 (週日) 09:10-09:40
三軍總醫院，第二演講廳

Speaker :
牛道明
Dau-Ming Niu

Gene therapy for inherited disorders - Take Fabry disease as an example

Dau-Ming Niu, M.D., Ph.D.
Director, Department of Pediatrics, Taipei Veterans General Hospital
Professor, Institute of Clinical medicine, National Yang-Ming University

With its rapid development in the past few decades, gene therapy has shown potential for use as a standard clinical intervention for the treatment of several conditions, including cancers, infectious diseases, cardiovascular disorders, inner ear disorders, dermatological, ophthalmologic, and neurological pathologies, etc. However, gene therapy is far more complex than sometimes considered. The first clinical successes of gene therapy were noted more than 20 years after initiation of research into this technique, which are still very meagre but show that the approach is feasible. Advances in vector design, stem-cell biology, and the prevention of immunogenicity are likely to prompt relevant clinical trials for genetic diseases in the future.

In Taiwan, our team first revealed a surprisingly high incidence (approximately 1 in 1600 males for IVS4+919G>A mutation) of Fabry disease in our Taiwanese population. Because the annual cost of the current enzyme replacement therapy for Fabry disease is very high (300 thousand US$/year), but relatively poor effective to renal podocytes and cardiomyocytes, it is very important to find other alternative therapies to reduce the cost and improve the effect for treating this disease.

In our study, we have try RNA alternative splicing modulator, antisense oligo therapy and CRISPR-Cas9 gene editing therapy in IVS4 patients' cell line. We also used AAV8, AVV9 and Anc80 (a new powerful vector) to treat Fabry Knockout mice. In this presentation, I will present our prelimiliary data of gene therapy about Fabry Disease.

S19

3 月 24 日 (週日) 09:10-09:40
三軍總醫院，第三演講廳

Speaker :
陳相成
Hsiang-Cheng Chen

Clinical phenotypes of autoantibodies in SARD

Hsiang-Cheng Chen, MD, PhD, EMBA, FACR

Systemic autoimmune rheumatic diseases (SARDs) are a group of rare inflammatory conditions that are associated with autoimmune dysregulation leading to disability, organ failure, morbidity and premature mortality. In general, SARDs are characterized by autoantibodies that can affect tissues and organs throughout the body. Of all rheumatic diseases, systemic autoimmune rheumatic diseases (SARDs)-which include systemic lupus erythematosus, Sjogren's syndrome, systemic sclerosis, polymyositis, dermatomyositis and the systemic vasculitides-are associated with the highest morbidity, mortality. Laboratory testing for antinuclear antibodies (ANAs) and specific autoantibodies associated with the presence of ANAs may be useful in the grouping and evaluation of these diseases.

The most frequent antigens described in autoimmune diseases exhibit a nuclear localization and are called extractable nuclear antigens because of the purification process; they are most commonly represented by the acronym ENA (extractable nuclear antigens). Analyzing of reactivity to ENA may contribute to an improved discrimination among the different types of a SARD. For example, the presence of anti-ribonucleoprotein (RNP) antibodies is part of the diagnosis of mixed connective tissue disease (MCTD), and positive results for ANA and the presence of anti-dsDNA or anti-Sm constitute three of the six immunological criteria for the diagnosis of systemic lupus erythematosus (SLE). The presence of antibodies directed against SS-A (Ro) or SS-B (La) ribonucleoproteins is a criterion for the diagnosis of Sjögren's syndrome (SS), and the appearance of antibodies against histidyl-sRNA synthetase (Jo-1) is an essential immunological characteristic of polydermatomyositis. The appearance of anti-centromere antibodies (CENP-B) or topoisomerase 1 (Scl-70) also aids in the diagnosis of systemic sclerosis.

To make a bridge to the following lectures, my short lecture will be focused on the relationships among autoantibodies and clinical phenotypes of SARD, especially in polymyositis/ dermatomyositis and systemic sclerosis patients.

S20

3 月 24 日 (週日) 09:40-10:10
三軍總醫院，第三演講廳

Speaker :
顧正崙
Cheng-Lung KU, Ph. D.

Inspection of the anticytokine autoantibodies in molecular level: a human monoclonal antibody approach

Cheng-Lung Ku
Laboratory of Human Immunology and Infectious Diseases, Graduate Institute of Clinical Medical Sciences, Chang Gung University

Anti-Interferon-γ (IFN-γ) autoantibodies are an emerge etiology to cause immunocompromise in adult. Due to the lack of IFN-γ activity by the neutralizing antibodies, patients suffered from the severe mycobacterial infection, salmonellosis and other intracellular infections. Our previous works demonstrated the ant-IFN-γ autoantibodies recognized the C-terminal region of IFN-γ. However, the molecular property of these autoantibodies is less clear. Single B cell capture technique, which can clone and produce monoclonal human antibodies by sorting single antibody-production B cell, is recently developed to study the anti-infectious antibodies with great success. Applying this approach to clone autoantibodies in patients with autoimmune disease might create a new pave to study the pathogenesis of autoantibody-related disease.

Here we report the isolation of 19 specific human IFN-γ monoclonal antibodies (mAbs) through single human single B cell capture method. Mostly, there are multiple high affinity mAbs with nanomolar range of KD. Twelve of them have the preference of VH/VL paired combination with diverse degree of somatic mutation. Moreover, the variant mAbs of unmutated common ancestor (UCA) showed basal binding ability to IFN-γ . Further, these twelve mAbs identified similar binding regions. Furthermore, the rest mAbs are categorized into two independent binding sites. In advance, Site I mAb interfered with IFN-γ and its receptor. Site II mAbs provide neutralization through higher binding affinity rather than interfering IFN-γ-receptor interaction. Beyond the neutralization, site III mAbs even lead to antibody-dependent cell-mediated cytotoxicity. These findings provide insight into complex mechanism lead to dysfunction of IFN-γ, informing the composition of anti-IFN-γ autoantibody to categorize the patient subtype.

S21

3 月 24 日 (週日) 09:40-10:10
三軍總醫院，第二演講廳

Speaker :

楊崑德

Kuender D. Yang

Diagnosis and Management of Immunodeficiency-an update and beyond

Kuender D. Yang, MD, PhD
Mackay Children's Hospital, and Institute of Biomedical Sciences, Mackay Medical College

Immunodeficiencies are mostly inherited in autosomal recessive and X-linked recessive traits which could be usually diagnosed by family pedigree and clinical symptoms. Selective prenatal diagnoses of immunodeficiencies and neonatal screening of TRECs have made immunodeficiencies preventable and CRISPER application makes certain immunodeficiencies treatable in embryo stage.

While we progress to genomic era (e.g. GWAS or whole genome sequencing), we have found that many inherited immunodeficiencies are not completely determined by specific mutation or deletion of DNA sequences, and found that phenotypes may have variants depending on point mutation, deletion, truncation, mosaicism or isoforms of gene expression. More interestingly, in the postgenomic era, we are still puzzled about indirect cis or trans perturbation of gene or protein activation for immune differentiation, proliferation and functions, and about immunodeficiencies affected by chromosomes instability, duplication, X-chromosome inactivation pattern and epigenetic modifications such as CG methylation, polyamine synthesis, non-coding RNAs, etc.

To make our fellows explore better diagnosis and treatment of immunodeficiencies, this short update is focused on the reported spatial and temporal associations of the inactive X chromosome with immunodeficiencies, as an example.

S22

3 月 23 日 (週六) 13:30-14:00
2 樓，第 20 教室

Speaker :
路景竹
Ching-Chu Lu

Targeted Radionuclide Theranostics in Prostate Cancer
標靶放射核種攝護腺癌診斷治療

Ching-Chu Lu
Department of Nuclear Medicine, National Taiwan University Hospital

Prostate cancer is the second cancer cause and the fifth leading cancer death worldwide in men. Conventional imaging studies such as computed tomography, magnetic resonance imaging and bone scintigraphy have limitations to evaluate disease status. New positron emitting tomography (PET) tracer, ^{68}Ga-PSMA, first conducted in 2012, has shown excellent ability in restaging of biochemical recurrence with low prostate specific antigen (PSA) level. Further studies extended the application to primary staging and monitoring therapeutic response. Cancer cell expression of PSMA exhibited by ^{68}Ga-PSMA can be treated with ^{177}Lu-PSMA. Several Phase II clinical trials shown that ^{177}Lu-PSMA is safe and effective as a third line therapy. The first Phase III trial is aimed to compare ^{177}Lu-PSMA and salvage radiotherapy. Moving forward from third line therapy to second line is attempted if clinical benefit is proved.

Target alpha therapy (TAT) with alpha emitters has been investigated recently. Refractory to beta emitters such as ^{177}Lu-PSMA is expected to be candidate to TAT since short range of alpha particles carrying stronger energy kills cancer cell in more effective way. Preliminary results of ^{225}Ac-PSMA therapy showed limited side effect with excellent response in either significant PSA decline or decreased 68Ga-PSMA uptake. ^{213}Bi-PSMA is another TAT with higher perfusion-dependent off-target radiation and longer biological half-life. Potential candidate of alpha-emitting radioisotopes such as ^{212}Pb is under investigation.

Personalized treatment plans mainly base on molecular profiles, and nuclear medicine studies serve as the most powerful noninvasive functional approach. By applying diagnosis result directly to therapy, which from ^{68}Ga-PSMA to ^{177}Lu-PSMA is the best example of theranostics, has lead treatment of prostate cancer to a new ear.

S23

3 月 23 日 (週六) 14:00-14:30
2 樓，第 20 教室

Speaker :

黃玉儀
Yu-Yi Huang

Ra-223 therapy for osteoblastic bone metastasis of mCRPC
鐳 -223 治療成骨性骨轉移之應用

Yu-Yi Huang
Koo-Foundation, Sun Yat-Sen Cancer Center

Ra-223 therapy is the only one proven bone targeting therapy which serves overall survival benefit for mCRPC with bone metastasis and without other visceral organ metastases. The side effects are very mild, including myelosuppression and gastrointestinal disturbs. It is probably safe under concurrent or concomitant use of chemotherapy. Retreatment up to 12 doses maybe effective and safe. Synergistic effect with bone resorption agents are observed in some studies.

In our experience, Ra-223 provides pain reduction, improved daily life performance, and quality of life, and is also safe and tolerable to the patient.

S24

3 月 23 日 (週六) 14:30-15:30
2 樓，第 20 教室

Speaker :
張志賢
Chih-Hsien, Chang

Peptide Receptor Radionuclide Therapy 放射核種診斷與治療

Chih-Hsien, Chang
Isotope Application Division
Institute of Nuclear Energy Research

Peptide Receptor Radionuclide Therapy (PRRT) is a form of molecular targeted therapy which is performed by using a small peptide that is coupled with a radionuclide emitting alpha or beta radiation. A key advantage of PRRT over other methods of radiotherapy is the ability to target delivery of therapeutic radionuclides directly to the tumor or target site. This works because some tumors have an overexpression of peptide receptors, compared to normal tissue. A radioactive substance can be combined with a relevant peptide (or its analogue) so that it preferentially binds to the tumor. With a gamma emitter as the radionuclide, it can be used for imaging to locate tumors. When paired with alpha or beta emitters, therapy can be achieved. In this talk, current status of PRRT would be reviewed and discussed.

S25

3 月 24 日 (週日) 9:00-10:30
2 樓，第 20 教室

Speaker :

吳東信

Tung-Hsin Wu

Constructing A New Translational Research Paradigm with Spontaneous Animal Models of Cancer Disease in Taiwan
建構台灣自發性癌症疾病動物模型之創新轉譯研究新典範

Yu-Yi Huang
Medical Imaging Integration Labortory, Department of Biomedical Imaging and Radiological Sciences, National Yang Ming University

The “Spontaneous Animal Models of Human Diseases” in the contexts of this grant proposal is referred to as the pet animal clinical trials with similar diseases of human. More than half of dogs and cats older than 10 years will develop cancers, cancer is the top of ten causes of death for pets currently. But the heartbreaking diagnosis for the owners is a treasure trove of potential data for oncology researchers. The usage of these natural disease models for translational medicine and research may have immense potential for accelerating the developments of new pharmaceuticals, novel treatments and medical devices for clinical application. Meanwhile, the animal itself with diseases can also receive effective treatments with the support of cutting-edge medical technologies. Mice don't normally get cancer. It must be induced and the immune systems in many strains of lab mice have been altered. That makes them becoming poor models for translational cancer research. However, currently the most difficult hurdle of pursuing animal clinical trials is how to educate physicians and researchers with the wealth of animal clinical data generated each year in Taiwan which can potentially provide invaluable information for their daily clinical patient cares.

Hybrid positron emission tomography and X-ray computed tomography (PET/CT) has become a crucial imaging modality for bridging the pre-clinical (animal) and clinical (human) translational medicine. In our institution, we have recently installed the first campus-based PET/CT system in Taiwan for research. Hybrid positron emission tomography and X-ray computed tomography (PET/CT) has become a crucial imaging modality for bridging the pre-clinical (animal) and clinical (human) translational medicine. In our institution, we have recently installed the first campus-based PET/CT system in Taiwan for research. The near-, mid-, and long-term goals of this center are: (1) to promote multidisciplinary collaboration in high-level radiological diagnostic and treatment technologies, (2) to establish an AI translational and innovative platform for spontaneous animal models of various diseases, and (3) to accelerate multidisciplinary research and development for veterinary and human medicine, respectively.

S26

3 月 24 日 (週日) 14:15-15:30
2 樓，第 29 教室

Speaker :
江秀梅
Hsiu-Mei Chiang

Fisetin Ameliorated Photodamage in human skin fibroblasts and mouse skin

Hsiu-Mei Chiang
Department of Cosmeceutics, China Medical University

Chronic ultraviolet (UV) exposure may cause skin damage, disrupt skin barrier function, and promote wrinkle formation. UV induces oxidative stress and inflammation, which results in extracellular matrix degradation in the dermis and epidermal hyperplasia. Fsetin exerts photoprotective activity by inhibiting mitogen-activated protein kinase/activator protein-1/matrix metalloproteinases (MMPs) activation. Fisetin reduced the expression of ultraviolet (UV)-induced mitogen-activated protein kinase pathway and reduced inhibitor κB degradation and increased the amount of p65, which is a major subunit of nuclear factor-κB (NF-κB), in cytoplasm. Topical application of fisetin reduced UVB-induced increase in the a* value and wrinkle formation. In addition, fisetin inhibited epidermal hyperplasia and increased the collagen content in the dermis. Fisetin exerted photoprotective activity by inhibiting the expression of MMP-1, MMP-2, and cyclooxygenase-2 and increasing the expression of nuclear factor erythroid 2-related factor. Furthermore, fisetin increased the expression of filaggrin to prevent UVB-induced barrier function disruption. Altogether, the present results provide evidence of the effects and mechanisms of fisetin's antiphotodamage and antiphotoinflammation activities.

Keywords: fisetin; photodamage; erythema; nuclear factor erythroid 2-related factor; filaggrin

S27

3 月 24 日 (週日) 14:15-15:30
2 樓，第 29 教室

Speaker :
陳珮珊
Pai-Shan Chen

Food, Medicine, or Drug of Abuse

Pai-Shan Chen
Department and Graduate Institute of Forensic Medicine. National Taiwan University

The consumption of food products or herbal medicines containing poppy seeds, which contain small amounts of morphine and codeine, can result in the urinary excretion of morphine and its metabolites (e.g. 3- and 6-morphine glucuronide). An important forensic problem is to identify the use of illicit “street” heroin when the defence is that the urinary morphine arises from poppy seed ingestion or codeine administration. Heroin is synthesised from the acetylation of morphine and in illicit heroin manufacture, other minor opium poppy alkaloids may be also acetylated. These minor acetylated alkaloids and/or their metabolites, may be excreted in urine following heroin drug usage. The hypothesis that this tertiary amide is resistant to endogenous hydrolysis was supported from in-vitro experiments and a metabolite was identified that may be used as a signature of 'street' heroin. This may offer a greater degree of retrospection of drug detection compared with that of 6-monoacetylmorphine.

S28

3 月 24 日 (週日) 14:15-15:30
2 樓，第 29 教室

Speaker :
陳容甄
Rong-Jane Chen

Preventive Effects of Pterostilbene against Food Contaminants-Induced Toxicity through Autophagy Induction

Rong-Jane Chen
Department of Food Safety/Hygiene and Risk Management, College of Medicine, National Cheng Kung University

Pterostilbene is a natural analogue of resveratrol but exhibits better bioavailability due to the presence of two methoxy groups, which leads to increased lipophilic and oral absorption, as well as the potential for higher cellular uptake and a longer half-life than resveratrol. Substantial evidences suggest that pterostilbene may have diverse pharmacological benefits for the prevention and treatment for a vast range of human diseases, including cancer, dyslipidemia, diabetes, cardiovascular disease, and neurological degeneration. Our previous studies have revealed an autophagy-inducing effect of pterostilbene that is associated with its preventive effects. In general, autophagy is a mechanism of cellular self-consumption for the recycling of intracellular "cargo" such as damaged proteins and organelles to maintain homeostasis. Current studies have also indicated the key role of autophagy in inflammasome inactivation. In addition, autophagy defect has been known to be associated with various disease. Therefore, through autophagy inducing effects, pterostilbene could act as an excellent agent in preventing various diseases.

Our studies have demonstrated that pterostilbene is effective in prevention of food contaminants-induced toxicity and is associated with autophagy induction. Pretreatment with pterostilbene significantly reduced tumor multiplicity, tumor volume and burden in urethane-induced lung carcinogenesis in mice. Urethane is one of the food contaminants that has been found in fermented foods such as beverages, soy source, and yogurt. It has been classified by the International Agency for Research on Cancer (IARC) as "possible carcinogenic to humans" (Group 2B). We have demonstrated that the pterostilbene-mediated chemopreventive effects were a result of the inhibition of epidermal growth factor receptor (EGFR) and its downstream pathways, leading to delayed cell cycle progression and the induction of apoptosis and autophagy during urethane-induced lung tumorigenesis. In addition, we have established a urate nephropathy animal model by feeding with high concentration of adenine in ICR mice and has been demonstrated that NLRP3 inflammasome activation plays a key causative role in the pathogenesis of inflammation and fibrosis in this chronic kidney disease. Concurrent treatment with pterostilbene effectively alleviates kidney inflammation and fibrosis though management of NLRP3 inflammasome activation and fibrosis by autophagy in urate nephropathy model. Our study is the first to reveal the renal protective effects and mechanisms of pterostilbene regarding autophagy and inflammasome pathways. Then we have established another renal toxicity model induced by 3-chloro-1,2-propanediol (3-MCPD) and glycidol, which are food contaminants concurrently present in oil and fat containing foodstuffs. Both are reported induced renal toxicity which is the issue of concern but the molecular mechanisms to their toxicity are sparse. Our results have indicated that pretreatment of pterostilbene attenuates renal inflammation and dysfunction mediated by 3-MCPD and Glycidol, and is associated with autophagy induction.

Through these models, we have indicated the effectively protective effects of pterostilbene against food contaminants-induced toxicity via autophagy inducing effects. The results and established models in our study can contribute not only the scientific evidences of toxicity induced by urethan, uric acid, 3-MCPD, and glycidol but also a model for studying toxicity mechanisms by other food contaminants. Moreover, we also contribute to the development of prevention and intervention strategies against food contaminants-induced toxicity, therefore to promote food safety and human health by using some natural products such as pterostilbene.

S29

3 月 23 日 (週六) 13:30-15:30
3 樓，第 32 教室

Speaker :

謝佩伶
PEI-LING HSIEH

Regulation of MMP-13 by PKR in the degenerated articular chondrocytes

PEI-LING HSIEH
Department of Anatomy, School of Medicine, China Medical University, Taichung, Taiwan

Osteoarthritis (OA) is one of the most common joint diseases affecting a significant amount of the aged population. Despite the age-related increase in the expression of MMP-13 (collagenase-3) and PKR (double-stranded RNA-dependent protein kinase) has been noted and considered crucial in the pathogenesis of OA, the detailed mechanism underlying the PKR-mediated elevation of MMP-13 following inflammation was still not fully elucidated. In order to advance our understanding of pathways regulating MMP-13 expression in this degenerative joint disorder, we have examined the expression of PKR in human OA cartilage and its involvement in the modulation of oxidative stress and MMP-13 expression in articular chondrocytes. Our results showed that PKR was upregulated in both OA cartilages and TNF-α-stimulated chondrocytes. Phosphorylation of PKC (protein kinase C) was observed after TNF-α stimulation or PKR activation, indicating PKC was regulated by PKR. We demonstrated that the increased level of PKR or PKC led to activation of NADPH oxidase, resulting in oxidative stress accumulation and antioxidant capacity suppression with increased COX-2 and IL-8 via ERK/NF-κB pathway. Besides, the activated ERK pathway hindered the repression of MMP-13 by PPAR-γ. Altogether, these findings suggested that the oxidative stress-increased inflammation and MMP-13 in human chondrocytes were mediated by TNF-α-induced PKR activation. Understanding the role of PKR will deepen our knowledge of OA pathogenesis and support the interest for targeting PKR as a candidate OA therapeutic.

S30

3 月 24 日 (週日) 13:30-15:30
3 樓，第 32 教室

Speaker :
江明憲
Ming-Hsien Chiang

Confronting antibiotic resistant bacteria via immunization

Ming-Hsien Chiang
National Defense Medical Center
Department and Graduate Institute of Biology and Anatomy

The emergence of multidrug resistant (MDR) bacteria have become a major threat in public health over the past decades and might cause 10 million deaths every year in 2050. Acinetobacter baumannii is one of the most important nosocomial MDR pathogens and hard to get rid of from medical devices and environment. Multidrug- or Pandrug-resistant A. baumannii infections have contributed significantly to increase difficult-to-treat infection and the elderly have worse outcomes than the young population. Tigecycline (TGC) has been thought as one of the last resorts to treat MDR A. baumannii. However, TGC-resistant A. baumannii isolates have been increasing reported over the years. For this reason, the development of a novel strategy to combat A. baumannii is urgently needed. In this study, we aimed to identify potential vaccine candidates using two different strategies: (1) reverse vaccinology and (2) resistant determinants. First of all, we have identified thirteen proteins could potentially be the vaccine targets by means of reverse vaccinology. We have cloned and purified three of these antigens. The pneumonia animal model showed that the multi-valent vaccine has partial protection in lethal doses (60% survived). Currently, we are working to discover a more broadly protective vaccine to combat A. baumannii infection.

Secondly, we propose an immunization approach to restore the bactericidal activity of TGC against TGC-resistant A. baumannii infection. Overexpression of resistance-nodulation-cell division (RND) efflux pumps, including AdeABC, AdeIJK, TolC were tightly associated with TGC resistance in clinical isolates of A. baumannii. The outer-membrane located efflux protein, AdeK, was found to be the most promising candidate to restore TGC activity after neutralizing the AdeK function with the specific antibody in vitro experiments. The bacterial load and lung injury were significantly decreased in mice with AdeK immunization. The results suggested that anti-AdeK immunized regimen could potentially restore the TGC activity in clinical.

Collectively, our findings in this study have shed light on vaccinology and chemo-immuno-therapies strategy against MDR pathogens and it is worth of further investigation.

S31

3 月 23 日 (週六) 13:30-15:30
3 樓，第 32 教室

Speaker :
林能裕
Neng-Yu Lin

Food, Medicine, or Drug of Abuse

Neng-Yu Lin
College of Medical, National Taiwan University Department of Anatomy and Cell Biology

Aging is among the greatest known risk factors for most human diseases: of the roughly 150,000 people who die each day across the globe, about two thirds die from age-related causes. As the population ages, osteoarthritis (OA) is a classic age-related disorder. It is often described as a chronic degenerative cartilage disease and thought to be an inevitable consequence of growing old. During the development of osteoarthritis, chondrocyte progressively changes the composition of the cartilage matrix by secreting catabolic cytokines and matrix-degrading enzymes such as aggrecanases, MMPs, IL-1, TNF-α, prostaglandins and inducible nitric oxide synthase (iNOS) to redistribute the composition of extracellular matrix by accumulating type X collagen, instead of type II collagen.

Macroautophagy (often simply referred to autophagy) is an evolutionarily conserved catabolic process allowing cells to degrade unnecessary or dysfunctional cellular organelles, which is an important sources of nutrients during starvation or in response to cellular stress. Decreased autophagy with age has been reported extensively in a variety of systems, which lead to accumulation of dysfunctional intracellular proteins and have a significant impact on the pathogenesis and progression of degenerative diseases. Coordinately, a key nutrient sensing pathway, protein O-GlcNAcylation, in which proteins are reversibly modified with O-Linked β-N-acetylglucosamine (O-GlcNAc) at Ser/Thr residues in response to nutrient availability and stress is critical in metabolic homeostasis. Several reports have been shown that O-GlcNAc modification is essential for the regulation of autophagy. Here, we investigated the roles of autophagy and protein O-GlcNAcylation in cartilage degeneration through an osteoarthritic mouse model and elucidated the mechanisms of O-GlcNAc signaling in coupling autophagy to nutrient homeostasis.

S32

3 月 24 日 (週日) 13:30-15:30
3 樓，第 32 教室

Speaker :
莫凡毅
Fan-E Mo

Shear-Induced CCN1 Promotes Atheroprone Endothelial Phenotypes and Atherosclerosis

Fan-E Mo
Department of Cell Biology and Anatomy, College of Medicine, National Cheng Kung University, Tainan, Taiwan

Aim- The risk factors for atherosclerosis include hyperlipidemia, hypertension, chronic inflammation, smoking, male gender, and age. Despite these risk factors exist systemically, atherosclerosis occurs preferentially at the blood vessels encountering blood flow turbulence. We previously found that CCN1, an extracellular matrix protein, is induced by disturbed flow created in the carotid-artery-ligation mouse model and promotes neointima formation through its receptor integrin α6β1. Our aim was to examine the mechanism underlying the atherogenic activity of CCN1.

Methods and Results- Ccn1dm/dm mice carrying α6β1-binding-defective allele Ccn1-dm (double mutation on α6β1–binding sites) were resistant against the neointimal hyperplasia induced by carotid artery ligation. We found that endothelial oxidative stress, expression of atherogenic ET-1 and MCP-1, apoptosis, and monocyte homing were increased in the ligated wild-type (WT) arteries, however were not affected in Ccn1dm/dm mice. Conversely, eNOS was downregulated in ligated WT arteries, and not affected in Ccn1dm/dm mice. Because integrin α6β1 is essential for CCN1 action, we examined the expression of the integrins. We found that α6 and β1 were undetectable in the unligated arteries and was induced in the endothelium after ligation. The induction of α6 and β1 by ligation was not observed in the Ccn1dm/dm mice, suggesting that CCN1/α6β1 engagement further promotes their own expression. We confirmed the positive-feedback-regulation of CCN1-α6β1 by testing HUVECs under unidirectional laminar flow (laminar shear stress, LSS; 12 dyn/cm^2) or oscillating flow (oscillatory shear stress, OSS; ± 5 dyn/cm^2) conditions for 24 h in an in vitro perfusion system. CCN1, α6, and β1 expression were induced by OSS measured by quantitative RT-PCR. Blocking NFκB using the specific inhibitor Bay117085 abolished the induction of CCN1, α6, and β1. An antagonistic peptide P17 was used to disrupt CCN1/α6β1 engagement. P17 (20 μmol/L) inhibited the induction of CCN1, α6β1 by OSS in HUVECs. Moreover, endothelial cells isolated from the aorta of Ccn1dm/dm mice were resistant to OSS-induced CCN1, α6, β1, and other atheroprone gene expression. Conclusions- CCN1 is a critical pathophysiological regulator mediating atheroprone endothelial activation induced by disturbed flow. CCN1 and its receptor integrin α6β1instigate a vicious circle mediated by NFκB to promote atherogenesis. Disrupting CCN1/α6β1 engagement effectively prevents atherogenesis in mice.

S33

3 月 24 日 (週日) 14:15-16:15
3 樓，第 32 教室

Speaker :

曾國藩

Guo-Fang Tseng

The anatomy-related course arrangement for medical students of the Tzu Chi University

Guo-Fang Tseng
Department of Anatomy, College of Medicine, Tzu Chi University

The anatomy-related courses for medical students of the Tzu Chi University started in the spring semester of their 2nd year to the spring semester of their 3rd year.

Medical students were introduced to the basics of histology on the four major tissues (1 credit hour) and the skeletal and muscular system of the body (1 credit hour) in the 2nd year. Gross anatomy (with dissection) in integration with neuroanatomy and embryology and histology of the organs formed the core of the anatomy program during the fall semester of the students' third year. This was then followed by Silent Mentor Case study (I credit hour) that integrated pathology with all anatomy knowledges that the students have learned in the spring semester of their third year. The case study is designed for students of each gross dissection table to learn based on the observation of the changes that of their silent mentor and the medical records of the donors provided and then shared with fellow students and clinicians of related disciplines with a presentation followed by discussion. Pathology, imaging and anatomy teachers and clinicians of the most related discipline of the diseases of the silent mentor were also assigned to students for consultation.

Besides this, a unique humanistic arrangement (1 credit hour) strung through these courses to emphasize donors as silent mentors and altruistic role models. Students visited the surviving families before classes. Families and students joined the ceremonies at the beginning and the end of the gross dissection. Interaction enhanced the appreciation of the donation and incited in-depth introspection in students to be caring professionals in the future. It in addition, comforted surviving families and helped to quail public resistance to body donation.

S34

3 月 24 日 (週日) 14:15-16:15
3 樓，第 32 教室

Speaker :
周逸鵬
Yat-Pang Chau

Enhancing Cognitive Empathy by Role Playing in Problem-based Learning

Yat-Pang Chau
Department of Medicine, Mackay Medical College

Medical humanity education is nowadays received much attention and rapidly developed in almost every medical college in Taiwan; nevertheless, its curriculum is currently independent from the professional training for medical students. Here we aimed to implement the education of medical humanities into the third-year problem-based learning (PBL) course and evaluate the students' attitude of empathy before and after learning. Conflicting situations resulting from different ethical, psychological, and cultural aspects between patients and doctors that often take place in the field of medical services were embedded in the storyline of three clinical cases of PBL. During group discussion, the students not only learned medical knowledge and skills, but also deeply discuss these pre-designated issues of medical humanities. Specifically, the students had to infer the patients' thoughts, beliefs, needs, emotions, and behaviors, and took decent responses or generated ideal solutions as if he/she were a doctor. Then, in the class the students played either the role of patients or doctors and acted out the conversations and interactions based on the perspective of each character. Immediate feedbacks about the role playing were provided by other students as well as two faculties of medical humanities. The students' attitudes of empathy toward the patients, including the cognitive, affective, and behavioral components, were measured using a questionnaire before and after the role playing. The results demonstrated that the students' cognitive empathy was significantly increased after role playing, while the affective and behavioral empathy only changed in the same trend mildly. The current study therefore demonstrates that playing the role of patients or doctors in a PBL course effectively enhances the students' understanding of the thoughts and beliefs of other people (i.e., the theory of mind). More critically, we develop a promising protocol that implements education of medical humanities in the curriculum of professional medical training.

S35

3 月 24 日 (週日) 14:15-16:15
3 樓，第 32 教室

Speaker :

賴逸儒
I-Rue Lai

台大醫學系整合型課程發展 - 以解剖教學為例

I-Rue Lai
Department of Anatomy and Cell Biology, College of Medicine, Fu Jen Catholic University

1992 年台大醫學系實施新課程，力求基礎與臨床醫學知識的整合，將傳統型課程改以單元教學及小組教學來施教。

當時大體解剖學、組織學、胚胎學雖然都歸屬解剖學科，但皆獨立講授，課程之間的整合度仍有不足。自 2009 年起，參考評鑑與學生意見，推動基礎與臨床課程之間的整合。茲以解剖學科所負責的大體解剖、組織與胚胎學課程為例，說明本校進行整合型課程的準備過程與初步成效。

S36

3 月 24 日 (週日) 14:15-16:15
3 樓，第 32 教室

Speaker :
李學德
Hsueh-Te Lee

Teaching guide and sharing for cardiovascular system development

Hsueh-Te Lee
Institute of Anatomy & Cell Biology, National Yang-Ming University

本次演講是以國立陽明大學醫學院解剖學及細胞生物學研究所教師立場及經驗，進行教學經驗分享。分享主題是利用心血管發育系統教學切入：利用教學戰略及教學戰術之概念，將教學對象分為醫學生及類醫學相關學生來劃分；並輔以引導式數位資料架構，帶入研究歷史及產業相關之發展，期以培養具有自我學習更新能力之學生為主旨之教學方式分享。

S37

3 月 24 日 (週日) 14:15-16:15
3 樓，第 32 教室

Speaker :
王霈
Pei Wang

The Anatomy Teaching Experience in Fu Jen Catholic University

Pei Wang
College of Medicine, Fu Jen Catholic University

輔仁大學醫學系三到四年級是以 PBL 的課程設計為主軸，在以了解身體結構知識為優先的原則下，三年級全學期的資源學習課程（為系統解剖學與胚胎學的整合課程）會配合 PBL，在各系統單元開始之初，安排該系統的解剖胚胎及組織學課程，三年級下學期開設神經解剖學以做為四年級上學期神經運動單元的先備課程，大體解剖學實驗則開設在四年級上學期。

近年來輔大解剖教師的授課方式，也開始嘗試採取不同的做法，包括製作動畫素材、錄製授課影片、經營 FB 解剖知識專頁、發展解剖學磨課師課程、以及與臨床醫師的教學合作等，讓解剖教學的模式更多元，以提升學習的彈性及成效。

S38

3 月 23 日 (週六) 13:30-15:30
3 樓，第 33 教室

Speaker :
陳俊安
Jun-An Chen

"Micro" managing of "Linc" RNA: a motor neuron perspective

Jun-An Chen
Institute of Molecular Biology, Academia Sinica

Regulatory non coding RNAs, including microRNAs (miRNAs) and long non coding RNAs (lncRNAs), have shown to be essential for animal development and viability, yet dissecting the relevance of individual miRNA or lncRNA has been challenging for a given cell context. In addition, the role of ncRNAs for neurodegeneration is still obscure. To identify ncRNAs participated during motor neuron development and degeneration, we used human embryonic stem cell and motor neuron disease iPSCs as paradigms and robustly harnessed them into different motor neuron subtypes to perform strand specific RNA-seq and small RNA-seq simultaneously. We identified several novel MN signature miRNAs and lncRNAs, and systematically analyzed their functions by generating knockout mice. I will present the current progress of the characterization of these MN-ncRNAs by gain-of-function and loss-of-function studies. Collectively, these results will provide critical information for ncRNAs function and will fill in the information on how ncRNAs mediate MN development in vivo.

S39

3 月 23 日 (週六) 13:30-15:30
3 樓，第 33 教室

Speaker :
譚賢明
Bertrand Tan

Contribution of RNA editing to tumorigenesis via targeting distinct coding and non-coding genes linked to malignancy

Bertrand Tan
Department of Biomedical Sciences, Chang Gung University

Neoplastic progression is accompanied by pro-survival alterations in genome-encoded information. One of the potentially dysregulated molecular pathways is the Adenosine Deaminase Acting on RNA (ADAR)-catalyzed adenosine-to-inosine (A-to-I) RNA editing, which reportedly exhibits variable patterns in cancers. However, how this transcriptome recoding process is functionally correlated with tumorigenesis remains largely elusive. Analysis of the large-scale RNA editome datasets unveiled several tumor-associated genes as A-to-I editing target: 1) two negative regulators of HIF-1A-the natural antisense transcript of HIF-1A, or HIF1A-AS2, and the ubiquitin ligase scaffold LIMD1, and 2) a variant of the splicing factor-encoding HNRPLL gene. For the first part, the novel link of RNA editing to hypoxic response was reinforced by the distinct modes of ADAR1 regulation of target expression-HIF1A-AS in the transcriptional context and LIMD1 at the post-transcriptional level. Consequently, this multi-tier regulation coordinated by ADAR1 promoted the robust and timely accumulation of HIF-1 in response to oxygen depletion, as well as the downstream target genes induction and angiogenesis process. Our findings in the second part demonstrated that tumor-associated differential RNA editing, in conjunction with splicing machinery, regulates the expression of a novel transcript variant of HNRPLL. Both ADAR1 and ADAR2 directed deaminase-dependent expression of the variant transcript, via generating an enhancer for the oncogenic splicing factor SRSF1 and consequently promoting the frequency of alternative splicing. Further transcriptome profiling and functional assay revealed that the novel variant acts distinctly from HNRPLL and regulates the clonogenic ability and drug-induced apoptotic sensitivity of tumor cells, highlighting the significance of this alternative isoform in tumor cell growth. In summary, our findings collectively underscore the significance of distinct RNA editing-driven regulatory axes in safeguarding cell survival during tumorigenesis, and provide a mechanistic explanation to the role of the RNA editors in malignant transformation.

S40

3 月 23 日 (週六) 13:30-15:30
3 樓，第 33 教室

Speaker :
楊鎧鍵
Kai-Chien Yang

Coordinated Regulation of Cardiac Fibrosis by Long Noncoding RNA Lnc-Fibrogen and ER-Resident Protein TXNDC5

Kai-Chien Yang
Department and Graduate Institute of Pharmacology, National Taiwan University

Background: Cardiac fibrosis plays a critical role in the pathogenesis of heart failure (HF). Excessive accumulation of extracellular matrix (ECM) resulting from cardiac fibrosis impairs cardiac contractile function and increases arrhythmogenicity. Current diagnostic and treatment options for cardiac fibrosis, however, are very limited. It has become increasingly clear that the transcription of the eukaryotic genome is far more pervasive and complex than previously appreciated. While the expression of messenger RNAs (mRNAs) and microRNAs (miRNAs) account for only1% of all transcribed species, up to 90% of the mammalian genome is transcribed as long non-coding RNAs (lncRNAs). It remains unclear how lncRNA regulation contributes to cardiovascular pathology such as cardiac fibrosis and heart failure. The goal of this study is to determine the role of lncRNAs in the pathogenesis of cardiac fibrosis.

Results: RNA sequencing was conducted using the RNA samples isolated from the left ventricles (LV) of 16 human failing hearts and 8 non-failing control hearts. A total of 18480 lncRNAs were detected, where 679 and 570 lncRNAs are differentially expressed in failing LV with ischemic cardiomyopathy and non-ischemic cardiomyopathy, respectively. Combined Weighted Gene Co-expression Network Analysis (WGCNA) and in vitro experiments identified a fibroblast-enriched lncRNA lnc-Fibrogen, which is upregulated in failing human and mouse heart and is highly correlated with the expression levels of fibrosis/extracellular matrix (ECM) genes including Col1A1, ELN, CTGF and ACTA2. Knocking down lnc-Fibrogen in cardiac fibroblasts leads to downregulation of fibrosis genes and prevents TGFβ-induced ECM gene upregulation. Further experiments revealed that lnc-Fibrogen downregulates ECM genes by post-transcriptioally destabilizing the mRNAs of ECM proteins via sponging miRNA29a. Interestingly, an ER-resident protein thioredoxin domain containing 5 (TXNDC5), the coding gene intersecting with lnc-Fibrogen, is also highly upregulated in failing myocardium and in fibroblasts upon TGFβ stimulation. Knocking down TXNDC5 in fibroblasts abrogates TGFβ-induced ECM protein, but not mRNA, upregulation. Further experiments confirmed that TXNDC5 functions by facilitating the folding of ECM proteins; the depletion of TXNDC5 leads to increased ECM protein misfolding and degradation through ER-associated degradation (ERAD) pathway. TGFβ-induced TXNDC5 and lnc-Fibrogen upregulation is dependent on transcriptional regulation downstream of ER stress pathway.

Conclusion: Cardiac fibroblast-enriched lncRNA lnc-Fibrogen and its host gene TXNDC5 coordinately regulate fibroblast activity and ECM production by modulating ECM gene stability and ECM protein folding/degradation, respectively. This lnc-Fibrogen-TXNDC5 duo represents a novel molecular mechanism contributing to cardiac fibrosis and could be a novel therapeutic target against cardiac fibrosis and heart failure.

S41

3 月 23 日 (週六) 13:30-15:30
3 樓，第 32 教室

Speaker :
施景文
Jing-Wen Shih

LncHIFCAR: an oncogenic lncRNA functions as a HIF-1α transcriptional coactivator driving oral cancer progression

Jing-Wen Shih
Graduate Institute of Cancer Biology and Drug Discovery, TMU
Ph.D. Program for Cancer Biology and Drug Discovery, TMU

Hypoxia is a prominent feature of the tumor microenvironment with a profound impact on malignant aggressiveness and therapeutic response. In the past few years, critical roles of long non coding RNAs (lncRNAs) in hypoxia/HIF-1-associated cancer progression, along with their potential utilities as tumor biomarkers or therapeutic targets, have begun to emerge. Recently we have identified *MIR31HG/LncHIFCAR* (long noncoding HIF-1α co-activating RNA) as a hypoxia-inducible lncRNA. Extensive analyses of clinical data indicate *LncHIFCAR* level is substantially upregulated in oral carcinoma, significantly associated with poor clinical outcomes and representing an independent prognostic predictor. Overexpression of *LncHIFCAR* induces pseudo-hypoxic gene signature, whereas knockdown of *LncHIFCAR* impairs the hypoxia-induced HIF-1α transactivation, sphere-forming ability, metabolic shift and metastatic potential in vitro and in vivo. Mechanistically, *LncHIFCAR* forms a complex with HIF-1α via direct binding, thereby facilitating the recruitment of HIF-1α and p300 cofactor to the target promoters. Together, these findings offer new insights into an lncRNA-mediated mechanism for HIF-1 activation and establish the clinical values of *LncHIFCAR* for oral carcinoma. Currently, using next-generation sequencing technology, we are beginning to uncover the regulatory role of *LncHIFCAR*-associated signaling network in cancer progression. In addition, we are also exploring the diagnostic and prognostic potential of circulating *LncHIFCAR* in hypoxia-associated diseases.

S42

3 月 24 日 (週日) 14:30-16:30
3 樓，第 33 教室

Speaker :
章為皓
Wei-hau Chang

Engaging with high-throughput cryo-EM instruments to access macromolecular structures in functional states
使用高通量冷凍電顯捕捉工作狀態的大分子結構

Wei-hau Chang
Institute of Chemistry, Academia Sinica

Since the introduction of direct electron counting camera in 2013, single particle cryo-electron microscopy has rapidly exploded with resolution revolution. Ever since, many difficult biological macromolecules such as spliceosome particles and membrane proteins not amenable to X-ray crystal analysis have become soluble with cryo-EM with the resolution regularly reaching the regime from 4 to 2 Å to allow for the building of partial or complete atomic model from *De Novo*. As a result, cryo-EM has become a mainstream method in structural biology, in particular for accessing the structures representing solution states to provide insight with physiological relevance. To harness the power from this "Tsunami", Academia Sinica has finally invested two high-end cryo-EMs last year, which can generate about 1000-3000 movie-micrographs each day in a 24/7 manner. To promote the usage of these instruments as "beamlines", I will brief the need of the direct camera and the importance of microscope automation, and share our own examples with mixed success on samples that vary with different degrees of symmetry in which metal ions on virial protein interface or DNA bound in transcription machinery is revealed, to illustrate how we as biomedical scientists shall engage the usage with these high-end instruments to to access macromolecular structures in functional states.

S43

3 月 24 日 (週日) 14:30-16:30
3 樓，第 33 教室

Speaker :

吳尚蓉

Shang-Rung Wu

Cryo-EM structure of mature Dengue Virus Serotype 2 Virus-Like Particle

沈文凡[1§], Jedhan Ucat Galula[2§], 劉俊宏[3§], 廖美英[2§], 黃政皓[2], 王佑君[2], 吳漢忠[4], 梁健忠[5], 林宜玲[5], Matthew T. Whitney[6], 張光正[6], 陳聖壬[8], 吳尚蓉[7,8*] 趙黛瑜[2§*]

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[8] Institute of Oral Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan
§ These authors contributed equally to this work; *Correspondence

In this presentation, I would like to show the cryo-electron microscopy (cryo-EM) structure of mature dengue virus-like particle (VLP). Dengue fever is caused by four different serotypes of dengue virus (DENV) which is the leading cause of worldwide arboviral diseases in humans. Virus-like particles containing flavivirus prM/E proteins have been demonstrated to be a potential vaccine candidate; however, the structure of dengue VLP is poorly understood. Herein VLP derived from DENV serotype-2 were engineered becoming highly matured (mD2VLP) and showed variable size distribution with diameter of ~31nm forming the major population under cryo-EM examination. Furthermore, mD2VLP particles of 31nm diameter possess a T=1 icosahedral symmetry with a groove located within the E-protein dimers near the 2-fold vertices that exposed highly overlapping, cryptic neutralizing epitopes. Mice vaccinated with mD2VLP generated higher cross-reactive (CR) neutralization antibodies (NtAbs) and were fully protected against all 4 serotypes of DENV. Our results highlight the potential of “epitope-resurfaced” mD2VLPs in inducing quaternary structure-recognizing broad CR NtAbs to guide future dengue vaccine design. We are now improving the resolution of mD2VLP and at the same time solving the cryo-EM structure of immature dengue virus-like particle.

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3 月 24 日 (週日) 14:30-16:30
3 樓，第 33 教室

Speaker :
陳青諭、張淵智、蔡明道
Chin-Yu Chen[1], Yuan-Chih Chang[2] and Ming-Daw Tsai[3]

Cryo-EM and Enzymology: Cofactor specificity, pH dependence and divalent ions effect of ketol-acid reductoisomerase

Chin-Yu Chen[1], Yuan-Chih Chang[2] and Ming-Daw Tsai[3]
[1]Department of Life Sciences, National Central University, Taoyuan, Taiwan
[2]Institute of Cellular and Organismic Biology, Academia Sinica, Taipei, Taiwan
[3]Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan

As the resolution of cryo-EM has improved to 2-3 Å, it should be a feasible tool to examine the mechanism of enzymatic interactions, which often involve small structural differences in the protein and the substrates. The ketol-acid reductoisomerase (KARI) is a bifunctional enzyme catalyzing the second reactions of the branched chain amino acid biosynthetic pathway, converting either (2S)-acetolactate or (2S)-aceto-2-hydroxybutyrate to their corresponding 2,3-dihydroxy-3-alkylbutyrate products. Although the structure and mechanism of KARI from different organisms have been investigated extensively, we found that type C2 KARI from the thermophilic *Sulfolobus solfataricus* (Sso-KARI-C2) possesses unique properties in the oligomeric state (dodecamer), the sequence of the cofactor binding loop, the coenzyme specificity (NADH and NADPH), the pH dependence and divalent ion effect. To address the structural basis of these unique properties, we first solved the crystal structure of the dodecamer at pH 8.5 (2.5 Å-resolution) and the cryo-EM structures at pH 7.5 and 8.5 (~3.0 Å-resolution) and showed that overall structure all differ slightly. Then we chose the optimal pH 7.5 to address mechanistic problems by solving cryo-EM structures of three Sso-KARI-C2 complexes, with NADH, NADH+inhibitor, and NADPH+inhibitor to near atomic resolution (3.3~3.8Å). For other enzymes in the KARI family, it was not possible to obtain the crystal structures of both NADH and NADPH complexes. Analysis of the cryo-EM structures successfully attributed the dual specificity of this KARI to a unique asparagine at the cofactor binding loop. The results suggest that cryo-EM is a versatile tool for “solution structures” of various enzyme-small molecule complexes, and is likely to expand the horizon of mechanistic enzymology. The pH optimum of KARI enzymes is usually at pH 7.5-8.0. For Sso-KARI-C2, the activity-pH profile showed a sharp pKa at pH 7.8. In prior to our present study, the metal ion requirement of KARIs for the rearrangement step is stringent and requires Mg^{2+}, and no other metal ion will substitute effectively. Interestingly, in addition to Mg^{2+}, Sso-KARI-C2 can use Ca^{2+} to carry out this catalysis in the presence of either NADH or NADPH.

S45

3 月 24 日 (週日) 14:30-16:30
3 樓，第 33 教室

Speaker :
吳昆峯
Kuen-Phon Wu

Catalytic landscape structures of Glutamine Synthetase unveiled by cryogenic electron microscopy

Kuen-Phon Wu
Institute of Biological Chemistry, Academia Sinica

Recent developments of software and hardware in the field of cryogenic electron microscopy (cryoEM) demonstrate an approach to determine high molecular weight (MW) proteins or complexes paired to X-ray crystallography. Here I will present a study of 4 cryoEM structures of bacterial glutamine synthetase (GS) at distinct catalytic states. GS is the major enzyme in prokaryotes converting glutamate to glutamine by consuming one ATP and coordinating with 2 magnesium ions at the catalytic pocket. Although structures of bacterial GS had been extensively studied in early 90s by X-ray crystallography, details of oligomerization and conformational changes upon activation or feedback inhibition are not well depicted.

As a dodecameric protein with MW of 625 kDa, GS particles are vividly observed in electron microscopic micrographs implying feasibility to unveil catalytic conformational changes by the state-of-the-art cryoEM and advanced single particle analysis approaches. By using newly installed cryogenic electron microscope at Academia Sinica, my group has collected 4 datasets of GS representing conformational changes in the glutamine biosynthesis pathway. The catalytic landscape of apoenzyme, holoenzyme, transient activation state and feedback inhibition of GS is comprehensively illustrated by cryoEM atomic models.

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3 月 23 日 (週六) 13:30-14:30
3 樓，第 31 教室

Speaker :
劉俊仁
Jun-Jen Liu

When “high-tech” meets routine needs: strategy of application Mass Spectrometry in clinical lab of Taiwan

Jun-Jen Liu
School of Medical Laboratory Science and Biotechnology, College of Medical Science and Technology, Taipei Medical University

Accessibility to mass spectrometry (MS) as analytical for biological analysis increased in the 1990s, to emerge in clinical laboratories at the beginning of the 21st Century. With shorter run-times and high selective identification in one injection, more than 30% of the clinical laboratory in US have integrated it in 2010 whereas only 2% of laboratories used in 2000. More remarkably, spectacular progress in the mass spectrometry technologies and in computer informatics sciences have opened unexpected fields for clinical MS application such as microbiology, proteomics, metabolomics etc. and speed up the integration of MS in clinical lab. However, when shifting away from immunoassays, unavailability of technical and analytical expertise, the criteria and steps required by standardized operation procedures (SOP), and absence of full-time support by manufacturers are factors attenuate the initiation of this promising technology in clinical diagnosis lab. Especially, huge hurdle of implementation in Taiwan's clinical lab that only few medical laboratories performed such biological analysis. In attend to integrate of MS in TMU hospital system, we address strategies necessary for a robust implementation of clinical mass spectrometry which including (1) system and site preparation, (2) criteria and steps required by standardized operation procedures, (3) technical and analytical members training program, and (4) vendor collaborate program.

S47

3 月 23 日 (週六) 13:30-14:30
3 樓，第 31 教室

Speaker :
蘇剛毅
Su, Kang-Yi

Lung Cancer Molecular Diagnostic Development from Laboratory Site to Clinical Site

Su, Kang-Yi
Department of Clinical Laboratory Sciences and Medical Biotechnology, College of Medicine; Department of Laboratory Medicine, National Taiwan University Hospital; Genome & Systems Biology Degree Program, College of Life Science, National Taiwan University

In contrast to a one-size-fits-all strategy for cancer therapy, precision medicine is a concept that the right drug for the right patient at the right time by the right administration. Lung cancer is a prominent example of precision medicine among solid tumor malignancies. With the understanding of molecular medicine and the development of target therapy, laboratory molecular testing becomes increasingly important. In the mention of target therapy efficacy, identification of “targets” and development of “darts” are two prior issues in the clinical practice. Stand on the clinical laboratory medicine views, providing accurate testing results for actionable mutation identification to meet clinical unmet needs is the most important issue. In this talk, I would like to share the experience from laboratory bench to clinical application in lung cancer precision. In the beginning, we developed highly sensitive lab-developed testing for EGFR mutation diagnostics in lung cancer. According to the request from the clinical, we revised the testing panel based on lung cancer mutation profiling by adding EGFR, KRAS, BRAF, HER2 mutation hot spots. In the past 8 years, the service provided over 2500 cases/year to help patients to apply health insurances. Recently, with the discovery of novel fusion mutation and the utilization corresponding drugs in lung cancer, we further developed customized fusion mutation detection panel from formalin-fixed paraffin embedded RNA extracts for clinical immediate needs. On the other hand, in the concern of the availability of surgical biopsy and the monitor of disease progression as well as the prediction of drug responsiveness, we also tried to develop non-invasive molecular diagnostics in cell-free DNA from peripheral blood. This progress not only enhances the detection sensitivity by modifying the previous platform but also identifies testing threshold for predicting cancer progressive disease and target therapy effectiveness. Taken together, these experiences and progresses highlight the role of laboratory R&D in clinical practice. It can satisfy the clinical unmet and immediate needs to achieve the goal of precision medicine. However, we should keep in mind that the analytical and clinical reliability, feasibility, and practicability have to be always concerned during each step from laboratory bench side to clinical bed side.

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3 月 23 日 (週六) 13:30-14:30
3 樓，第 31 教室

Speaker :
林佳霓
Chia-Ni Lin

Mass Spectrometry Applications in the Clinical Laboratory

Chia-Ni Lin
Department of Laboratory Medicine, Chang Gung Memorial Hospital

Mass spectrometry is a powerful analytical technique that can be used in many different fields to identify unknown organic and inorganic compounds, determine structures of molecules and quantitate very low concentration of compounds. Mass spectrometer analyzed molecules by relating the mass of each molecule to the charge; this technology that ionizes chemical species and sorts the ion based in their mass-to-charge ratio. It is required that the molecule of interest can be ionized and presented in gas phase. Historically, applications of mass spectrometry in the clinical laboratory were limited to gas chromatography for toxicology confirmation, testing for inborn errors of metabolism and inductively coupled plasma for elemental analysis. With the simplification of the mass spectrometry and introduction of atmospheric spray ions sources, liquid chromatography tandem mass spectrometry has become a viable option for routine testing in clinical laboratory. A brief background of the evolution of mass spectrometry in the clinical laboratory is provided with a discussion of future applications.

第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

科技新知研討會

Technology Symposium

T1

時間：3 月 23 日 (週六) 11:45-12:45
地點：1 樓，可勝廳
單位：伯森生物科技股份有限公司

Optimization tips and useful tools for Immunohistochemistry (IHC) and Immunocytochemistry (ICC)

Speaker :
郭可茵博士
香港大學哲學博士

Moderator :
劉俊仁 副教授
台北醫學大學醫學檢驗暨生物技術學系

Immunohistochemistry (IHC) and Immunocytochemistry (ICC) are important tools for visualizing the distribution of target molecules in tissue sections and their localization in subcellular compartments using antibody-antigen interactions coupled to either chromogenic (colorimetric) or fluorometric detection (known as immunofluorescence, abbrev: IF). This technical talk will cover key procedures involved in IHC and ICC, including fixation, antigen retrieval, blocking and detection, and focus on practical troubleshooting tips for common problems. We will also introduce the vast range of cell and tissue imaging tools Abcam offers to help researchers like you to obtain quality results faster.

T2

時間：3 月 23 日 (週六) 11:45-12:45
地點：3 樓，第 30 教室
單位：伯森生物科技股份有限公司

How to Combine Cell Culture and Cell-Based Assays with Imaging

Speaker :
Dr. Christian Leibold
Director Global Sales, ibidi GmbH, Germany

Moderator :
王慧菁 副教授
國立清華大學分子與細胞生物研究所

High quality images of cells, which have high spatial and temporal resolution, require not only the appropriate technical equipment to create them, but also careful attention to the sample preparation.
ibidi produces specialized chambers, with specialized geometries and high optical properties, which allow microscopical analysis of living or fixed cells during cultivation, treatment within the same dish or slide.
In this talk, we will be focusing on how to optimize the key application and providing an all-in-one solution in:

- Live Cell Imaging
- Immunofluorescence
- Wound Healing and Cell Migration
- Chemotaxis and Angiogenesis
- Cell Culture Under Flow
- 3D culture of spheroids and organoids

T3

時間：3 月 24 日 (週六) 12:30-13:30
地點：1 樓，可勝廳
單位：百歐精準生物醫學股份有限公司

Biomarker discovery for early diagnosis and companion diagnostics

Speaker :

Moderator :

Very often, the effectiveness of administered drugs varies from patient to patient due to the complex and heterogenous nature of most diseases, as well as immune system differences in each individual. In fact, some patients, depending on their physiological and immunological makeup, may suffer from immune-related adverse events (irAE) from therapies. Recently, autoantibody-based immunotoxicity profiling has been gaining attention due to its ability to:

1. identify patients who are most likely to benefit from a particular therapeutic product.
2. identify patients likely to be at increased risk for serious side effects as a result of treatment with a particular therapeutic product.
3. monitor response to treatment with a particular therapeutic product for the purpose of adjusting treatment to achieve improved safety or effectiveness.

   If the diagnostic test is inaccurate, then the treatment decision based on that test may not be optimal. It is in this regard that our protein array technology can provide a unique and high throughput method of profiling autoantibodies to investigate the effectiveness of treatment, adverse effects, and the order of use of drugs.

   The test can help healthcare professionals determine whether a particular therapeutic product's benefits to patients will outweigh any potential serious side effects or risks.

T4

時間：3 月 24 日 (週日) 12:30-13:30
地點：1 樓，第 1 教室
單位：國立臺灣大學

Profiling circulating microRNAs and extracellular vesicles as cancer biomarkers

Speaker :
松崎潤太郎 研究員
日本國立癌症研究中心研究所分子細胞治療研究領域 特任研究員
慶應義塾大學醫學部臨床醫學博士
慶應義塾大學醫學部內科專修醫學士

Moderator :
沈湯龍 教授
國立臺灣大學生技中心主任
國立臺灣大學植物病理與微生物學系專任教授
台灣胞外體學會會長

癌症的早期診斷對於後續治療和預後有決定性的影響，而血液循環中由癌細胞所釋放之 DNA、microRNA (miRNA)、以及胞外體 (extracellular vesicles) 在近年已成為癌症早期診斷之研究重點，在未來可望透過一般抽血檢驗就能得知是否罹患癌症，並可進一步得知癌症的類型、位置、分期、突變等資訊。

松崎潤太郎研究員目前於日本國立癌症研究中心擔任特任研究員，主要致力胃癌、乳癌、卵巢癌、膀胱癌、食道癌等癌症之循環 miRNA 標記的建立。松崎研究員的研究成果近期發表於 Clinical Cancer Research, Nature Communications 等重要國際期刊，這次午餐科技新知研討會也將分享最新研究成果。

T5

時間：3 月 24 日 (週日) 12:30-13:05
地點：3 樓，第 30 教室
單位：財團法人國家衛生研究院

Application of NGS-based Test in the prenatal medicine

Speaker :
孫孝芳
國立成功大學醫學院分子醫學所教授兼所長

Moderator :
熊昭
國家衛生研究院群體健康科學研究所所長 / 特聘研究員

The rapid development of genomic technology has made the twenty-first century the most prominent century for the scientific research in genomic medicine. Technical advances by means of next generation sequencing (NGS) technologies improve the capacity to detect and quantify genetic variants, including germline and somatic mutations and polymorphisms, across the genome. The growing number of publications and patents indicate that application of NGS-based molecular testing to assist accurate diagnosis of disease incidence, the degree of prognosis or the most appropriate treatment for individual disease is inevitable in the future trend. And it is the main spirit of “Precision Medicine”. For the foreseeable future, NGS-based molecular testing will be as common as the current biochemical tests or general physical examination. The application of genomics in preventive medicine, especially in prenatal care, is particularly important. The NGS-based prenatal tests through the use of maternal blood to detect fetal chromosomal abnormalities have shown the advantages over the traditional prenatal tests. It is believed that NGS-based prenatal testing will become a trend leader under this new generation of genome technology. The Center for Genomic medicine (CGM) in the National Cheng Kung University was established as a University research center but has transformed to provide services for clinical diagnosis. Our goal is to turn the maternal and fetal genetic testing to a new era of faster, more accurate and more comprehensive for next-generation Maternal-fetal precision medicine. This presentation will outline our achievements and prospective developments.

T6

時間：3 月 24 日 (週日) 13:05-13:30
地點：3 樓，第 30 教室
單位：財團法人國家衛生研究院

An update on the high-throughput data analysis and its application in cancer genomics studies

Speaker :
江士昇
國家衛生研究院 癌症研究所 助研究員

Moderator :
熊昭
國家衛生研究院群體健康科學研究所所長 / 特聘研究員

高通量資料 (high-throughput data) 分析應用，已經是現代以多重組學（multi-omics）為主流之生物醫學研究不可缺少的領域。以美國 TCGA 計畫為例，這類大量應用多重組學的計畫是需要跨領域的科學家充分密切合作，方有成功的機會。本生物資訊核心成員專長來自數學、統計、生醫、流病等不同領域，十多年來，已協助國內諸多生醫研究團隊，在各類高通量數據的分析及應用，如各式微陣列數據、NGS 數據的處理及進階生物路徑學 (pathway analysis) 之闡釋等，累積豐富的經驗。本核心著重排除數據中的非生物干擾因子，並強調以公用資料庫探勘為佐證的策略，追求分析結果的一致性、再現性及臨床應用性。面對近來持續受到關注的腫瘤微環境 (tumor microenvironment) 組成分析及其在免疫療法的發展的需求增加，本核心亦整理或開發了一系列的常用方法或軟體，包含可應用於單細胞技術所得的基因表現分析數據者（single-cell RNA-sequencing），皆將於日後另舉辦教育訓練課程與各界分享。

T7

時間 : 3 月 24 日 (週日) 12:30-13:30
地點 : 2 樓，第 20 教室
單位 : 英科智能

Artificial Intelligence in Biomedical Research

Speaker :
林彥竹 研發長
Ph.D., ETH Zurich
Research Fellow, A*STAR Research, Singapore
Visiting Scientist, Harvard University, U.S.A.

Moderator :
曾曉慧，事業發展部主任
Ph.D., Taiwan International Graduate Program, National Yang Ming University and Academia Sinica
Post-Doctoral Fellow, National Institutes of Health, U.S.A.

Insilico Medicine, an artificial intelligence company headquartered in Rockville, MD, pioneered the applications of the generative adversarial networks (GANs), reinforcement learning, transfer learning and meta-learning for generation of novel molecular structures for the diseases with known and unknown targets, and, unlike the other companies in the field, is developing the end-to-end pipeline covering every step of drug discovery, clinical trials analysis and digital medicine. Insilico Medicine is pursuing internal drug discovery programs in cancer, dermatological diseases, fibrosis, Parkinson's Disease, Alzheimer's Disease, ALS, diabetes, sarcopenia, and aging. Through a partnership with Life Extension, the company launched a range of nutraceutical products, which were compounded using the advanced bioinformatics techniques and deep learning approaches. It also provides a range of consumer-facing applications including Young.AI.

第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

口頭論文報告

Oral Presentations

口頭論文分類、時間、地點

108 年 3 月 23 日 (週六)

學會別	地點	時間	編號
大會主題競賽	3 樓，第 31 教室	15:00-17:10	O01-O08 (8 篇)

108 年 3 月 23 日 (週六)

學會別	地點	時間	編號
台灣藥理學會	1 樓，第 1 教室	09:50-11:10	O36-O39(4 篇)

108 年 3 月 24 日 (週日)

學會別	地點	時間	編號
中華民國細胞及分子生物學學會	3 樓，第 30 教室	14:30-16:10	O09-O14 (6 篇)
中華民國臨床生化學會	3 樓，第 31 教室	09:00-10:30 13:30-15:10	O15-O23 (9 篇)
中華民國毒物學學會	2 樓，第 29 教室	09:00-10:30	O24-O29 (6 篇)
中國生理學會	1 樓，第 2 教室	09:00-10:30	O30-O35 (6 篇)
中華民國解剖學學會	3 樓，第 32 教室	09:00-10:30	O40-O53 (14 篇)
台灣生物化學及分子生物學學會	3 樓，第 33 教室	08:30-10:30	O54-O59 (6 篇)
中華民國免疫學會	1 樓，可勝廳	14:30-16:45	O60-O70 (11 篇)
台灣分子生物影像學會	2 樓，第 20 教室	14:30-16:45	O71-O76 (6 篇)

大會主題競賽

時間：3 月 23 日 (週六) 15:00-17:10
地點：3 樓，第 31 教室
主持人：楊雅倩教授、葉振聲教授

編號	時段	演講者 & 講題
O01	15:00-15:15	Identification of the novel role of CD24 as an oncogenesis regulator and therapeutic target forTriple Negative Breast Cancer Shih-Hsuan Chan [1,2,3], Kuo-Wang Tsai [4,5], Shu-Yi Chiu [3], Wen-Hung Kuo [6], Heng-Yi Chen [7], Shih Sheng Jiang [8], King-Jen Chang [9], Wen-Chun Hung [10], and Lu-Hai Wang* [1,2,3,11,12] [1] Graduate Institute of Integrated Medicine, China Medical University, Taichung, Taiwan [2] Institute of Molecular and Medicine, National Tsing Hua University, Hsinchu, Taiwan [3] Institute of Molecular and Genomic Medicine, National Health Research Institutes, Miaoli , Taiwan [4] Department of Medical Education and Research, Kaohsiung Veterans General Hospital, Kaohsiung , Taiwan [5]Department of Chemical Biology, National Pingtung University of Education, Pingtung, Taiwan [6] Department of Surgery, National Taiwan University Hospital, Taipei, Taiwan [7] Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan [8] National Institute of Cancer Research, National Health Research Institutes, Miaoli, Taiwan [9] Department of Surgery, Taiwan Adventist Hospital, Taipei, Taiwan [10] National Institute of Cancer Research, National Health Research Institutes, Tainan, Taiwan [11]Chinese Medicine Research Center, China Medical University, Taichung, Taiwan. [12]Research Center for Chinese Herbal Medicine, China Medical University, Taichung, Taiwan. *Corresponding Author
O02	15:15-15:30	The Mechanistic Role of Polyamines in DNA Double-Strand Break Repair 李致瑩 [1], 蘇綸勤 [1], 黃文彥 [2], 柯旻佑 [1], 葉欣怡 [1], 張震東 [1], 林頌然 [2-5], 冀宏源 [1,6*] Chih-Ying Lee [1], Guan-Chin Su [1], Wen-Yen Huang [2], Min-Yu Ko [1], Hsin-Yi Yeh [1], Geen-Dong Chang [1], Sung-Jan Lin [2], and Peter Chi [1,3*] [1]Institute of Biochemical Sciences, National Taiwan University, Taipei, Taiwan [2]Institute of Biomedical Engineering, National Taiwan University, Taipei, Taiwan [3]Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan
O03	15:30-15:45	Rab37 Mediates Exocytosis of Secreted Frizzled-Related Protein 1 to Inhibit Wnt Signaling and thus Suppress Lung Cancer Stemness 郭懿瑩 [1], 卓書慧 [1], 呂佩融 [2], 曾鴻泰 [1], 賴吾為 [3], 蘇五洲 [4], 王憶卿 [1,5*] I-Ying Kuo[1], Shu-Huei Cho[1], Pei-Jung Frank Lu[2], Hong-Tai Tzeng[1], Wu-Wei Lai[3], Wu-Chou Su[4], and Yi-Ching Wang[1,5*] [1]Department of Pharmacology; [2]Institute of Clinical Medicine; [3]Department of Surgery; [4]Department of Internal Medicine; [5]Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, Taiwan
O04	15:45-16:00	Structural Analysis of the Non-heme Dioxygenase AsqJ from Aspergillus Nidulans 廖宣任 , 詹迺立 * Hsuan-Jen Liao, Nei-Li Chan* Institute of Biochemistry and Molecular Biology, College of Medicine, National Taiwan University, Taipei, Taiwan

編號	時段	演講者 & 講題
O05	16:10-16:25	Distinct Characteristics between Wild Type Tau and K280-Deletion Mutant Tau 張明筠[1,3§], 陳仁偉[3§], 林昕芃[2,3], 陳韻如[1,2,3*] Ming-Yun Chang[1,3§], Jen-Wei Chen[3], Xing-Peng Lin[2,3], and Yun-Ru Chen[1,2,3*] [1]International Graduate Program in Interdisciplinary Neuroscience, National Yang-Ming University and Academia Sinica, Taipei, Taiwan [2]National Taiwan University, Taipei, Taiwan [3]Genomics Research Center, Academia Sinica, Taipei, Taiwan *Corresponding author: Yun-Ru Chen, Genomics Research Center, Academia Sinica, Taiwan. 128, Academia Road, Sec. 2, Nankang Dist., Taipei, Taiwan. § These authors contribute equally to this manuscript.
O06	16:25-16:40	STAT3 Cooperates with Phospholipid Scramblase 2 to Suppress Type I Interferon-induced Antiviral and Inflammatory Response 蔡明勳[1], 李建國[1*] Ming-Hsun Tsai[1], Chien-Kuo Lee[1*] [1]Graduate Institute of Immunology, National Taiwan University College of Medicine, Taipei, Taiwan
O07	16:40-16:55	SUMO-defective c-Maf Preferentially Transactivates Il21 to Exacerbate Autoimmune Diabetes in NOD mice 許詔淵[1], 葉禮慈[2], 傅馨慧[1,2], 簡明偉[2], 劉鈺文[3], 繆希椿[4], 張德明[5], 司徒惠康[1,2*] Chao-Yuan Hsu[1], Li-Tzu Yeh[2], Shin-Huei Fu[1,2], Ming-Wei Chien[2], Yu-Wen Liu[3], Shi-Chuen Miaw[4], Deh-Ming Chang[5], Huey-Kang Sytwu[1,2*] [1]National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Taiwan [2]Department and Graduate Institute of Microbiology and Immunology, National Defense Medical Center, Taiwan [3]Molecular Cell Biology, Taiwan International Graduate Program, Academia Sinica, Taiwan [4]Graduate Institute of Immunology, National Taiwan University College of Medicine, Taiwan [5]Department of Internal Medicine, Tri-Service General Hospital, National Defense Medical Center, Taiwan
O08	16:55-17:10	EVALUATION OF THE BIOLOGICAL BEHAVIOR OF A GOLD NANOCORE-ENCAPSULATED HUMAN SERUM ALBUMIN NANOPARTICLE (AU@HSANP) IN A CT-26 TUMOR/ASCITES MOUSE MODEL AFTER INTRAVENOUS/ INTRAPERITONEAL ADMINISTRATION Chao-Cheng Chen[1], Jia-Je Li[1], Nai-Hua Guo[1], Deng-Yuan Chang[1], Chung-Yih Wang[2], Jenn-Tzong Chen[3], Wuu-Jyh Lin[3], Kwan-Hwa Ch[4], Yi-Jang Lee[1], Ren-Shyan Liu[1,5,6], Chuan-Lin Chen[1,*] and Hsin-Ell Wang[1,*] [1] Department of Biomedical Imaging and Radiological Sciences, National Yang-Ming University, Taipei, Taiwan; [2] Radiotherapy, Department of Medical Imaging, Cheng Hsin General Hospital, Taipei, Taiwan; [3] Institute of Nuclear Energy Research, Taoyuan, Taiwan; [4] Shin Kong Wu Ho-Su memorial hospital, Taipei, Taiwan; [5] Molecular and Genetic Imaging Core/Taiwan Mouse Clinic, National Comprehensive Mouse Phenotyping and Drug Testing Center, Taipei, Taiwan [6] Department of Nuclear Medicine and National PET/Cyclotron Center, Taipei Veterans General Hospital, Taipei, Taiwan

中華民國細胞分子生物學學會

時間：3 月 24 日 (周日) 14:30-16:10
地點：3 樓，第 30 教室
主持人：紀雅惠教授

編號	時段	演講者 & 講題
O09	14:30-14:45	Dysregulated microRNAs Enhance ZNF322A Expression and Transcriptional Activity in Lung Cancer 黃士宣[1], 王憶卿[1*] Shih-Hsuan Huang[1], Yi-Ching Wang[1*] [1]Department of Pharmacology, National Cheng Kung University, Tainan, Taiwan
O10	14:45-15:00	Benefits of Induced Pluripotent Stem Cell-derived exosome therapy for rat models of pulmonary artery hypertension. 沈旻淇[1,2]，張運德[3]，劉俊鵬[1]，齊珮伶[4]，黃偉春[1] Min-Ci Shen[1,2], Yun-Te Chang[3], Chun-Peng Liu[1], Pei-Ling Chi[4], Wei-Chun Huang[1,*] [1]Department of Critical Care Medicine, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan. [2]Graduate Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan. [3]Department of Emergency Medicine, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan. [4]Department of Medical Education and Research, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan.
O11	15:00-15:15	Human Placenta-Derived Mesenchymal Cells (PMSCs) Protect Against Klebsiella Pneumoniae-Induced Intra-Abdominal Infections (IAIs) by Enhancing Multiple Polymorphonuclear Neutrophil (PMN) Functions In Vitro & In Vivo 王麗姿[1], 王修洹[2], 江蕙君[1], 黃麗曰[3], 蕭樑基[3], 劉柯俊[4], 顏伶汝[2,5,*], 嚴孟祿[1,6,*] Li-Tzu Wang[1], Hsiu-Huan Wang[2], Hui-Chun Chiang[1], Li-Yueh Huang[3], Leung-Kei Siu[3], Ko-Jiunn Liu[4], B. Linju Yen[2,5,*], Men-Luh Yen[1,6,*] [1]Dept. of Ob/Gyn, National Taiwan University (NTU) Hospital & College of Medicine, NTU, Taipei; [2]Regenerative Medicine Research Group, Institute of Cellular & System Medicine, National Health Research Institutes (NHRI), Zhunan; [3]National Institute of Infectious Diseases & Vaccinology, NHRI, Zhunan; [4]National Institute of Cancer Research, NHRI, Zhunan; and [5]Dept. of Ob/Gyn, Cathay General Hospital Shiji, Taipei, Taiwan. [6]Lead contact.
O12	15:15-15:30	Characterization Of A Novel Mutant Allele, MYO7A p.S2112*, Of Usher Syndrome Type II 林雯英 , 林明德 , 靖永皓 Wen-ying Lin, Ming-der Lin, Yung-hao Ching Department of Molecular Biology and Human Genetics, Tzu Chi University, Taiwan
O13	15:30-15:45	Construction of asymmetric gene expression and differentiation in Escherichia coli. 林大惟[1,2], 劉陽[1], 廖得建[1], 梁安柔[1], 林岳儒[1], 何佳澤[1], 李雪菱[1], 楊博駿[1], 洪子喬[1], 黃筱鈞[1*] Da-Wei Lin[1], Liu Yang[1], Der-Chien Liao[1], An-Jou Liang[1], Yueh-Ju Lin[1], Chia-Tse Ho[1], Hsueh-Ling Lee[1], Po-Jiur Yang[1], Tze-Chiao Hung[1], Hsiao-Chun Huang[1]. [1]Institute of Molecular and Cellular Biology, National Taiwan University , Taipei, Taiwan [2]Institute of Chemistry, Academia Sinica, Taipei, Taiwan
O14	15:45-16:00	Effect of niche microstructure on the differentiation of oral mucosal epithelial cells and its application to corneal reconstruction 馬聖凱 Kevin Ma National Taiwan University

中華民國臨床生化學會

時間：3 月 24 日 (周日) 09:00-10:30
13:30-15:10
地點：3 樓，第 31 教室
主持人：郭靜穎教授

編號	時段	演講者 & 講題
O15	09:00-09:20	Functional Roles and Underlying Molecular Mechanisms of Metastasis-associated Protein-2 Expression in Human Renal Carcinoma 陳永璿 [1]、謝逸憲 [1,2*] Yong-Syuan Chen[1], Yi-Hsien Hsieh[1,2*] [1]Institute of Biochemistry, Microbiology and Immunology, Chung Shan Medical University, Taichung, Taiwan [2]Department of Biochemistry, School of Medicine, Chung Shan Medical University, Taichung, Taiwan
O16	09:20-09:40	MicroRNA-128 Interrupts Chondrocyte Autophagy and Accelerates Osteoarthritis Development by Targeting Atg12 孫儀芝 [1], 謝進貴 [1], 陳于珊 [1], 郭繼陽 [2], 王逢興 [1*] Yi-Chih Sun[1], Chin-Kuei Hsieh[1], Yu-Shan Chen[1], Jih-Yang Ko[2], Feng-Sheng Wang[1*] [1]Department of Medical Research, [2]Department of Orthopedic Surgery, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan
O17	09:40-10:00	Development of a Gene Therapy for Fabry Disease Using Adeno-Associated Viral Vector Mediated Gene Transfer 李雅婷 [1], 張勝凱 [2], 李萍惠 [1], 陳韻如 [1], 牛道明 [1,2*] Ya-Ting Lee[1], Sheng-Kai Zhang[2], Ping-Hui Li[1], Yun-Ru Chen[2], Dau-Ming Niu[1,2*] [1]Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan [2]Department of Pediatrics, Taipei Veterans General Hospital, Taipei, Taiwan
O18	10:00-10:20	Heat Shock Protein 60 Protects from Glucocorticoid Induction of Osteoporosis by Stabilizing Regulator Associated Protein of mTOR Complex 1-Mediated Osteoblast Autophagy 陳于珊 [1], 孫儀芝 [1], 柯惠菁 [1], 郭繼陽 [2], 王逢興 [1] Yu-Shan Chen[1], Yi-Chih Sun[1], Huei-Ching Ke[1], Jih-Yang Ko[2], Feng-Sheng Wang[1] [1]Department of Medical Research, [2]Department of Orthopedic Surgery, Kaohsiung Chang Gung Memorial Hospital, Kaoh siung, Taiwan
O19	13:30-13:50	Correction of the GLA IVS4+919 G>A Mutation with CRISPR/Cas9 Deletion Strategy in Fibroblasts of Fabry Disease 張勝凱 [1], 牛道明 *[1,2] Sheng-Kai Chang[1], and Dau-Ming Niu[1,2] [1]Department of Pediatrics, Taipei Veterans General Hospital , Taipei, Taiwan; [2]Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan;
O20	13:50-14:10	運用 Sigma metrics 工具優化生化檢驗項目品管流程 Utilizing Sigma metrics to Optimize Quality Control Process of Clinical Chemistry Tests 林宏澤 [1], 莊君威 [1], 溫巧尼 [1], 彭淑玉 [1], 甯孝真 [*1,2] Hung-Tse Lin[1], Chun-Wei Chuang[1], Chiao-Ni Wen[1], Shu-Yu, Peng[1], Hsiao-Chen Ning[*1,2] [1] Department of Laboratory Medicine, Linkou Chang Gung Memorial Hospital, Taoyuan City, Taiwan [2] Department of Medical Biotechnology and Laboratory Science, Chang Gung University, Taoyuan City, Taiwan

編號	時段	演講者 & 講題
O21	14:10-14:30	Treatment with a New Benzimidazole Derivative Bearing a Pyrolidine Side Chain Against Sorafenib Resistance in Hepatocellular Carcinoma 莊郁婷[1]，許銘華[2]，廖宜真[1,*] Yu-Ting Chuang[1], Ming-Hua Hsu[2], and Yi-Jen Liao[1,*] [1]School of Medical Laboratory Science and Biotechnology, College of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan. [2]Department of Chemistry, National Changhua University of Education, Changhua, Taiwan
O22	14:30-14:50	Implementation of Patient-Centered Intelligent Process to Improve Phlebotomy Service Quality 方君琬 Chun-wan Fang[1,3] Department of Laboratory Medicine, Linkou Chang Gung Memorial Hospital, Taoyuan, Taiwan Department of Medical Biotechnology and Laboratory Science, College of Medicine, Chang Gung University, Taoyuan, Taiwan
O23	14:50-15:10	Contactin 4 Acts as A Potential Tumor Suppressor in Colorectal Cancer through Its Inhibitory Effect on the Erk1/2-CREB pathway 陳柏霖[1], 李景行[1], 江紹瑜[1], 饒梓明[1], 蔡明宏[2,3], 楊雅倩[*1,4] Po-Lin Chen[1], Jing-Xing Lee[1], Shao-Yu Chiang[1], Tzu-Ming Jao[1], Ming-Hong Tsai[2,3] and Ya-Chien Yang[*1,4] [1]Department of Clinical Laboratory Sciences and Medical Biotechnology, College of Medicine, National Taiwan University, Taipei, Taiwan [2]School of Medicine, Fu-Jen Catholic University, New Taipei, Taiwan [3]Department of Surgery, Cardinal Tien Hospital, New Taipei, Taiwan [4]Department of Laboratory Medicine, National Taiwan University Hospital, Taipei, Taiwan

中華民國毒物學學會

時間：3 月 24 日 (周日) 09:00-10:30
地點：2 樓，第 29 教室
主持人：姜至剛教授

編號	時段	演講者 & 講題
O24	09:10-09:23	Nrf2 inhibition mediates nanoparticle induced ferroptosis in non-small cell lung cancer 謝仰致 [1], 王憶卿 [1] Yang-Chih Shieh[1], Yi-Ching Wang[1] [1] Department of Pharmacology, College of Medicine, National Cheng Kung University, Tainan
O25	09:23-09:36	Aryl Hydrocarbon Receptor Deficiency Promote Dermatophagoides pteronyssinus 2 Allergen-induced Airway Inflammation and Fibrosis via Insulin-like Growth Factor 1 Receptor pathway 吳昇懋 [1], 許美鈴 [1,2*] Sheng-Mao Wu [1], Meei-Ling Sheu [1,2*] [1]Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan; [2]Department of Medical Research, Taichung Veterans General Hospital, Taichung, Taiwan
O26	09:36-09:49	Title : Evodiamine Inhibition of Proliferation of Anaplastic Thyroid Cancer Cells Via Apoptosis and Cell Cycle Arrest at G2/M 周詩偉 [1]，陳彥州 [1] Shih-Wei, Chou[1] ，Yen-Chou Chen[1] 1.Graduate Institute of Medical Sciences, College of Medicine，Taipei Medical University,Taipei,Taiwan
O27	09:49-10:02	Title: Study the effects of long-term low dose di-(2-ehylhexyl) phthalate exposure in hepatic stellate cells 李群雅 [1,2], 廖宜真 [1,*] Chun-Ya Lee[1,2], Yi-Jen Liao[*1] [1] School of Medical Laboratory Science and Biotechnology, Collage of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan [2] Division of Family Medicine, Shuang Ho Hospital, New Taipei City, Taiwan
O28	10:02-10:15	Dehydroxyhispolon methyl ether, a Hispolon analog, targets the JAK1/SRC- STAT3-BCL-2 survival pathway to induce colon cancer cell apoptosis 謝雅筑 [1]，鄭可大 [2]，張嘉哲 [1,*] Ya-Chu Hsieh[1], Kur-Ta Cheng[2], Chia Che Chang[1,*] [1] Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan [2] Department of Biochemistry and Molecular Cell Biology, Taipei Medical University, Taipei, Taiwan
O29	10:15-10:28	Effect of Spatiotemporal Variation on the Toxicity of Taiwan Ambient $PM_{2.5}$ in Mouse Vascular Smooth Muscle Cells 何佳琪 [1], 陳裕政 [1], 翁甄憶 [1], 蔡卉蒂 [1], 林嬪嬪 [1*] Chia-Chi Ho[1] , Yu-Cheng Chen[1] , Chen-Yi Weng [1], Hui-Ti Tsai[1], Pinpin Lin[1#] [1] National Institute of Environmental Health Sciences, National Health Research Institutes, Zhunan, Taiwan, R.O.C.

中國生理學會

時間：3 月 24 日 (周日) 09:00-10:30
地點：1 樓，第 2 教室
主持人：李昆澤教授

編號	時段	演講者 & 講題
O30	09:00-09:15	Semaphorin 5A Suppresses Cell Proliferation and Migration in Lung Adenocarcinoma Cells 柯品豪 台大生理所 (Graduate Institute of Physiology, College of Medicine, National Taiwan University, Taipei, Taiwan)
O31	09:15-09:30	Regulation of MLCK isoforms induced-intestinal epithelial hyperpermeability in mouse models of inflammatory bowel disease 白宇辰、余佳慧 Yu-Chen Pai, Tsung-Chun Lee, Linda Chia-Hui Yu*, Yu-Chen Pai, Linda Chia-Hui Yu* Graduate Institute of Physiology, National Taiwan University College of Medicine, Taipei, Taiwan ROC.
O32	09:30-09:45	Multiple regulatory mechanisms of bromelain in hepatic lipid metabolism 胡柏安、高毓儒、李宗玄 Po-An Hu, Yu Ru Kou, Tzong-Shyuan Lee Graduate Institute of Physiology, National Taiwan University College of Medicine, Taipei, Taiwan
O33	09:45-10:00	Repression of COUP-TFII by proinflammatory cytokines contributes to endometriotic lymphangiogenesis 李婉寧 [1#], 王竹安 [2], 吳孟興 [3, 4], 蔡少正 [1, 3*] Wan-Ning Li[1], Chu-An Wang[2], Meng-Hsing Wu[3, 4], and Shaw-Jenq Tsai[1, 3] Institute of Basic Medical Sciences[1], Institute of Molecular Medicine[2], Department of Physiology[3], and Department of Obstetrics & Gynecology[4], College of Medicine, National Cheng Kung University, Tainan, Taiwan
O34	10:00-10:15	Hame Oxygenase-1 Up-regulation by Rosiglitazone via ROS-dependent Nrf2-Antioxidant Response Elements Axis Attenuates LPS-mediated Lung Inflammation 卓若羚 [1]、楊春茂 [1 *] Rou-Ling Cho[1], Chuen-Mao Yang[1*] 1 Department of Physiology and Pharmacology, College of Medicine, Chang Gung University, Kwei-San, Tao-Yuan, Taiwan
O35	10:15-10:30	TBC1D21 is vital to maintain the integrity of mitochondria sheath and flagellum in murine sperm 汪雅雲 [1, 2], 林盈宏 [1] Ya-Yun Wang[1, 2 #], Ying-Hung Lin[1,*] [1]Graduate Institute of Biomedical and Pharmaceutical Science, Fu-Jen Catholic University, New Taipei City, Taiwan [2]Department of Chemistry, Fu Jen Catholic University, New Taipei City, Taiwan

台灣藥理學會

時間：3 月 23 日 (周六) 09:50-11:10
地點：1 樓，第 1 教室
主持人 : 張文昌教授

編號	時段	演講者 & 講題
O36	09:50-10:05	Lysophosphatidylcholine Induces Cyclooxygenase-2-dependent IL-6 expression in Human Cardiac Fibroblasts 曾惠卿 [1,2], 林志中 [3], 王震宇 [2], 楊建中 [4,5], 蕭立德 [3], 楊春茂 [1,2,3,6*] Hui-Ching Tseng[1], Chih-Chung Lin[2], Chen-Yu Wang[1], Chien-Chung Yang[3], Li-Der Hsiao[2], Chuen-Mao Yang[1,2,4*] 1. Department of Physiology and Pharmacology and Health Ageing Research Center, Chang Gung University, TaoYuan, Taiwan 2. Department of Anesthetics, Chang Gung Memorial Hospital at Linkuo, TaoYuan, Taiwan 3. Department of Traditional Chinese Medicine, Chang Gung Memorial Hospital at Tao-Yuan, TaoYuan, Taiwan 4. Research Center for Chinese Herbal Medicine and Research center for Food and Cosmetic Safety, College of Human Ecology, Chang Gung University of Science and Technology, TaoYuan, Taiwan
O37	10:05-10:20	Establish a Model of Intracellular pH Regulation Mechanism on Pluripotency in Human Induced Pluripotent Stem Cells 趙士齊 [1,2], 李曉屏 [1,4,] 武國璋 [1,4], 戴念梓 [1,5], 羅時鴻 [*1,3] Shih-Chi Chao[1,2], Shiao-Pieng Lee[1,2] Gwo-Jang Wu[1,3], Niann-Tzyy Dai[1,4], Shih-Hurng Loh[*1,2] 1. Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan 2. Division of Oral and Maxillofacial Surgery, Tri-Service General Hospital, Taipei, Taiwan 3. Department of Pharmacology, National Defense Medical Center, Taipei, Taiwan 4. Department of Obstetrics and Gynecology, Tri-Service General Hospital, Taipei, Taiwan 5. Department of Orthopedics, Tri-Service General Hospital, Taipei, Taiwan
O38	10:20-10:35	Ubiquitin-conjugating enzyme E2 B regulates the sensitivity to alkylating agents in human nasopharyngeal carcinoma cells by modulating the ubiquitination of O6-methylguanine-DNA methyltransferase 徐詩涵，陳尚鴻，郭靜娟，李建逢，蕭聖諺，張俊彥 Shih-Han Hsu, Shang-Hung Chen, Ching-Chuan Kuo, Chien-Feng Li, Sheng-Yen Hsiao, and Jang-Yang Chang 1. Institute of Basic Medical Science, College of Medicine, National Cheng Kung University, Tainan, Taiwan 2. National Institute of Cancer Research, National Health Research Institute, Tainan, Taiwan
O39	10:35-10:50	Cytokinome landscape in 19 human cancer types 黃順清，張偉嶠 Henry Sung-Ching Wong, Wei-Chiao Chang College of Pharmacy, Taipei Medical University

中華民國解剖學學會

時間：3 月 24 日 (周日) 09:00-10:30
地點：3 樓，第 32 教室
主持人：蕭鎮源教授

編號	時段	演講者 & 講題
O40	9:00-9:10	Microglia Reactions after 72 h Sleep Deprivation in Adolescent and Adult mice 段立珩 [1], 李立仁 [1, 2, 3, *] Li-Heng Tuan[1] and Li-Jen Lee [1, 2, 3, *] Graduate Institute of Anatomy and Cell Biology, College of Medicine, National Taiwan University, Taipei, Taiwan, ROC. Institute of Brain and Mind Sciences, College of Medicine, National Taiwan University, Taipei, Taiwan, ROC. Neurobiology and Cognitive Science Center, National Taiwan University, Taipei, Taiwan, ROC.
O41	9:10-9:20	Pyr3 Induces Apoptosis and Inhibits Migration in Human Glioblastoma Cells 張欣翰 [1], 鄭宇辰 [2*], 陳瀅 [1,2*] Hsin-Han Chang[1], Yu-Chen Cheng[2*], and Ying Chen[1,2*] [1] Graduate Institute of Life Science, National Defense Medical Center, Taipei, Taiwan [2] Department of Biology and Anatomy, National Defense Medical Center, Taipei, Taiwan
O42	9:20-9:30	To study the protective effects of miR-26a on myocardial infarction-induced injury 江明憲 [1]，林隆君 [2]，黃慶昌 [2]，陳盈憲 [2]，林茂欣 [2]，李江文 [3,4,5]，陳玉怜 [1*] Ming-Hsien Chiang[1], Lung-Chun Lin[2], Ching-Chang Huang[2] , Ying-Hsien Chen[2], Mao-Shin Lin[2], Chiang-Wen Lee[3, 4, 5]and Yuh-Lien Chen[1*] [1]Department of Anatomy and Cell Biology, College of Medicine, National Taiwan University, Taipei, Taiwan [2]Department of Internal Medicine, National Taiwan University Hospital, Taipei, Taiwan [3]Division of Basic Medical Sciences, Department of Nursing, and Chronic Diseases and Health Promotion Research Center, Chang Gung University of Science and Technology, Chia-Yi, Taiwan [4]Department of Rehabilitation, Chang Gung Memorial Hospital, Chiayi, Taiwan. [5]Research Center for Industry of Human Ecology and Research Center for Chinese Herbal Medicine, Chang Gung University of Science and Technology, Taoyuan, Taiwan
O43	9:30-9:40	A Mouse Model of Amyloid Polyneuropathy Presenting with Sensory Neuropathy 甘弘偉 [1], 姜昊 [1], 林慧敏 [1], 游益興 [2], 林淑華 [3], 謝松蒼 [1,*] Hung-Wei Kan[1], Hao Chiang[1], Whei-Min Lin[1], I-Shing Yu[2], Shu-Wha Lin[3], Sung-Tsang Hsieh[1,*] [1]Department of Anatomy and Cell Biology, College of Medicine, National Taiwan University, Taipei, Taiwan [2]Laboratory Animal Center, College of Medicine, National Taiwan University, Taipei, Taiwan [3]Department of Clinical Laboratory Sciences and Medical Biotechnology, College of Medicine, National Taiwan University, Taipei, Taiwan
O44	9:40-9:45	Effect of bisphenol A on immune regulatory factor IDO of human placental cells 陳蓉安 (Jung-An Chen)[1], 黃慧馨 (Huei-Shing Huang)[1], 朱伯威 (Po-Wei Chu,)[2,3,], 武國璋 (Gwo-Jang Wu)[2,4], 藍心婕 (Hsin-Chieh Lan)[1*] 1. Institute of Biology and Anatomy, National Defense Medical Center, Taipei, Taiwan. 2. Department of Obstetrics and Gynecology, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan 3. Department of Obstetrics and Gynecology, Tri-Service General Hospital Songshan branch, National Defense Medical Center Taipei, Taiwan 4. Graduate Institute of Medical Sciences, National Defense Medical Center, Taipei, Taiwan
O45	9:45-9:50	HN242 ameliorates high fat diet induced NAFLD through inhibiting oxidative stress 王佑辰 , 賴欣妤 , 蘇意婷 , 龔秀妮 Wang You chen 國立臺灣大學解剖學暨細胞生物學研究所

編號	時段	演講者 & 講題
O46	9:50-9:55	Modulation of psoriasis-like mouse model by the aryl hydrocarbon receptor [1] 邢相媛、[1*] 許美鈴 [1]Hsiang-Yuan Hsing and [1*]Meei-Ling Sheu [1]Institute of Biomedical Sciences, National Chung Hsing University
O47	9:55-10:00	To Study the Effect of Particulate Matter on the Inflammation of High Glucose-treated Endothelial Cells through Mitophagy 程卉華 [1]，陳又溱 [1]，莊子儀 [2]，陳玉怜 [1*] Hui-Hua Cheng[1], Chen-Yu Chen[1], Tzu-Yi Chuang[2] and Yuh-Lien Chen[1*] *Correspondence: ylchenv@ntu.edu.tw [1]Department of Anatomy and Cell Biology, College of Medicine, National Taiwan University, No. 1, Sec 1, Ren-Ai Road, Taipei, Taiwan [2]Departmant of Internal Medicine, Taoyuan General Hospital, Department of Health and Welfare, No.1492, Zhongshan Road, Taoyuan, Taiwan
O48	10:00-10:05	The biological function of miR-192/194 in liver failure miR-192/194 在肝衰竭的生物功能 張益銘、許書豪 Yi-Ming, Chang、Shu-hao Hsu Graduate Institute of Anatomy and Cell Biology College of Medicine National Taiwan University
O49	10:05-10:10	The expression pattern of O-GlcNAcylation in chondrocytes of murine metabolic and inflammatory arthritis models 徐小涵，林能裕* Hsiao-Han Hsu，Neng-Yu Lin Graduate Institute of Anatomy and Cell Biology College of Medicine National Taiwan University Master Thesis
O50	10:10-10:15	Pericentriolar material 1 regulates checkpoint kinases/autophagy for cell survival upon prolonged replication stress 簡漢翔 [1]，王家義 [*] Han-Hsiang Chien[1], Chia-Yih Wang[*],Pei-Yu Wu, Shin-Yu Lai, Yi-Ting Su, Hsiu-Ni Kung Graduate Institute of Anatomy and Cell Biology, National Taiwan University [1*]Department of Cell biology and anatomy, College of Medicine, National Cheng Kung University, Tainan, Taiwan
O51	10:15-10:20	HN242 ameliorates diabetic cardiomyopathy through reducing oxidative stress, inhibiting inflammation, and restoring mitochondria 吳珮羽，賴欣妤，蘇意婷，龔秀妮 Pei-Yu Wu, Shin-Yu Lai, Yi-Ting Su, Hsiu-Ni Kung Graduate Institute of Anatomy and Cell Biology, National Taiwan University
O52	10:20-10:25	Characterization of sensory neurons derived from human iPSC 邱欣惠，謝松蒼 [*] Hsin-Hui Chiu，Sung-Tsang Hsieh[*] Department of Anatomy and Cell Biology, College of Medicine, National Taiwan University, Taipei, Taiwan
O53	10:25-10:30	ETO Treatment Induces Cellular Senescence by Activating DNA-PK/Chk2-Autophagy Signaling in Adrenocortical Tumor Cells. 張惠慈 [1,2]，鄧燕妮 [2]，王家義 [1,3] Huei-Cih Chang[1,2], Yen-Ni Teng[2], Chia-Yih Wang [1,3] 1 Department of Cell Biology and Anatomy, College of Medicine, National Cheng Kung University, Tainan, Taiwan 2 Department of Biological Sciences and Technology, National University of Tainan, Tainan, Taiwan 3 Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, Taiwan

台灣生物化學及分子生物學學會

時間：3 月 24 日 (周日) 08:30-10:30
地點：3 樓，第 33 教室
主持人：冀宏源教授

編號	時段	演講者 & 講題
O54	08:30-08:50	Molecular Regulation of Atg9 Under Oxidative Stress Conditions 王怡婷 , 陳光超 Yi-Ting Wang [1,2] , Guang-Chao Chen [1,2] 1 Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan. 2 The Institute of Biochemical Sciences, College of Life Science, National Taiwan University
O55	08:50-09:10	Rab37 Mediates PD-1 and IL-6 Expression in CD8+ T Cells to Promote Lung Cancer Progression 蔡宇柔 [1], 郭懿瑩 [1], 曾鴻泰 [1], 張志鵬 [2], 王憶卿 [1,3*] Yu-Jou Tsai[1], I-Ying Kuo[1], Hong-Tai Tzeng[1], Chih-Peng Chang[2], Yi-Ching Wang[1,3*] [1]Department of Pharmacology; [2]Department of Microbiology and Immunology; [3]Institute of Basic Medicine, National Cheng Kung University, Tainan, Taiwan University of Tainan, Tainan, Taiwan [3] Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, Taiwan
O56	09:10-09:30	H3K4 Methylation Mitigates Transcription-replication Conflicts by Decelerating Fork Progression During Replication Stress Shin Yen Chong[1,2], Yi-Chen Lo[2], Cheng-Fu Kao[1] [1]Institute of Cellular and Organismic Biology, Academia Sinica, Taipei, Taiwan [2]Institute of Food Science and Technology, National Taiwan University, Taipei, Taiwan
O57	09:30-09:50	Karyopherin Kap114p regulates TATA-binding protein-mediated transcription Chung-Chi Liao[1], Sahana Shankar[1], Golam Rizvee Ahmed[1] and Kuo-Chiang Hsia[1,2, 3] [1]Institute of Molecular Biology, Academia Sinica, Taipei 11529, Taiwan [2]Institute of Biochemistry and Molecular Biology, College of Life Sciences, National Yang-Ming University, Taipei, Taiwan [3]Correspondence should be addressed to K.-C. H
O58	09:50-10:10	Ran-independent regulation of mitotic Golgi disassembly by Importin-alpha 張志嘉 , 陳靜柔 , 卞毓中 , 蔡素宜 , 夏國強 Chih-Chia Chang, Ching-Jou Chen, Yu-Chung Pien, Su-Yi Tsai and Kuo-Chiang Hsia Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan
O59	10:10-10:30	Mitochondrial Damage Suppresses DNA Repair via Autophagy-regulated Endonuclease G 許世勤，趙彤，張智芬 Shih-Chin Hsu, Tung Chao, Zee-Fen Chang Institute of Molecular Medicine, National Taiwan University College of Medicine

中華民國免疫學會

時間：3 月 24 日 (周日) 14:30-16:45
地點：1 樓，可勝廳
主持人：李建國教授

編號	時段	演講者 & 講題
O60	14:30-14:40	USP17 Mediates Macrophage Promoted Inflammation and Stemness in Lung Cancer Cells by Regulating TRAF2/TRAF3 Complex Formation 呂志豪 [1,2]，葉大偉 [2]，賴朝陽 [2]，劉奕玲 [2]，黃麗蓉 [3]，李岳倫 [4]，金秀蓮 [1]，莊宗顯 [2,5] Chih-Hao Lu[1,2]，Da-Wei Yeh[2]，Chao-Yang Lai[2]，Yi-Ling Liu[2]，Li-Rung Huang[3]，Alan Yueh-Luen Lee [4]，S.-L. Catherine Jin[1]，Tsung-Hsien Chuang [2,5*] [1] Department of Life Sciences, National Central University, Zhongli District, Taoyuan City, Taiwan [2] Immunology Research Center, National Health Research Institutes, Miaoli, Taiwan [3] Institute of Molecular and Genomic Medicine, National Health Research Institutes, Miaoli, Taiwan [4] National Institute of Cancer Research, National Health Research Institutes, Miaoli, Taiwan [5] Program in Environmental and Occupational Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
O61	14:40-14:50	B-cell lymphoma 6 (BCL6) Is a Host Restriction Factor that Can Suppress HBV Gene Expression and Modulate Immune Responses 林駿達 [1,2], 謝岳廷 [1], 楊硯捷 [1], 陳詩蕙 [1], 吳政軒 [1], 黃麗華 [1,*] Chun-Ta Lin [1, 2], Yue-Ting Hsieh [1], Yeng-Jey Yang [1], Shih-Hui Chen [1], Cheng-Hsuan Wu [1], Lih-Hwa Hwang[1*] [1]Institute of Microbiology and Immunology, National Yang-Ming University, Taipei, Taiwan [2]Biomedical Industry Ph.D. Program, National Yang-Ming University, Taipei, Taiwan
O62	14:50-15:00	A novel system to control and retarget chimeric antigen receptors (CARs) T cells against multiple tumor antigens by scFv-CaM-mediated switches 何佳珞 Ho, Chia-Lo Institute of Biomedical Sciences, Academia Sinica
O63	15:00-15:10	Endogenous galectin-9 potentiates $CD4^+$ T cell activation through promoting TCR downstream signaling 陳恒儀 [1,2], 周峰正 [3], 吳諭萱 [4], 葉禮慈 [3], 劉扶東 [5], 司徒惠康 [1,2,3*] Heng-Yi Chen[1,2], Feng-Cheng Chou[3], Yu-Hsuan Wu[4], Li-Tzu Yeh[3], Fu-Tong Liu[5], Huey-Kang Sytwu[1,2,3*] [1]Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan [2]National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Miaoli, Taiwan [3]Department and Graduate Institute of Microbiology and Immunology, National Defense Medical Center, Taipei, Taiwan [4]School of Medicine, National Defense Medical Center, Taipei, Taiwan [5]Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan
O64	15:10-15:20	Enhanced N-glycan branching on CD8 T cells exacerbates autoimmune diabetes in non-obese diabetic mice 簡明偉 [1]，邱繼輝 [2]，林俊宏 [2]，司徒惠康 [1,3*] Ming-Wei Chien[1], Kay-Hooi Khoo[2], Chun-Hung Lin[2], Huey-Kang Sytwu[1,3*] [1]Department and Graduate Institute of Microbiology and Immunology, National Defense Medical Center, Taipei, Taiwan [2] Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan [3]National Institute of Infectious Disease and Vaccinology, National Health Research Institutes, Miaoli County, Taiwan

編號	時段	演講者 & 講題
O65	15:20-15:30	Anti-IFN-γ mAbs lead to biological activities through highly binding affinity Han-Po Shih[1], Chia-Hao Lin[1,2], Jing-Ya Ding[1], Jiun-Bo Chen[3], Chun-Fu Yeh[1,4], Yu-Fan Lo[1], He-Ting Ting[1], Tsai-Yi Wu[1], Chia-Chi Lo[1], Yu-Huan Tsai[5], Jhan-Jie Peng[1], Chia-Ni Tsai[1], Chen-Yen Kuo[1,6], Shang-Yu Wang[1,7], Kun-Hua Tu[1,8], Jing-Yi Huang[9], Hung-Kai Kevin Chen[9], Tse-Wen Chang[3], Chih-Yu Chi[1,10,11], Cheng-Lung Ku[1,4,12] [1]Laboratory of Human Immunology and Infectious Diseases, Graduate Institute of Clinical Medical Sciences, Chang Gung University, Taoyuan, Taiwan. [2]Division of Biological Sciences, University of California, La Jolla, San Diego, CA, USA. [3]The Genomics Research Center, Academia Sinica, Taipei, Taiwan. [4]Department of Internal Medicine, Chang Gung Memorial Hospital, Taoyuan, Taiwan. [5]Institute of Microbiology and Immunology, National Yang-Ming University, Taipei, Taiwan. [6]Department of Pediatrics, Chang Gung Memorial Hospital, Taoyuan, Taiwan. [7]Department of General Surgery, Chang Gung Memorial Hospital, Taoyuan, Taiwan. [8]Department of Nephrology, Chang Gung Memorial Hospital, Taipei, Taiwan. [9]Elixiron Immunotherapeutics Inc, Taipei, Taiwan [10]Department of Internal Medicine, China Medical University Hospital, Taichung, Taiwan. [11]School of Medicine, China Medical University, Taichung, Taiwan.[12]Graduate Institute of Clinical Medical Science, China Medical University, Taichung, Taiwan.
O66	15:30-15:40	High Glucose Exacerbates Dengue Virus Infection by Amplifying Viral Translation 沈庭靚 , 陳嘉玲 , 蔡宗婷 , 詹茗凱 , 林秋烽 Ting-Jing Shen[1,2], Chia-Ling Chen[3], Tsung-Ting Tsai[2], Ming-Kai Jhan[1,2], and Chiou-Feng Lin[1,2,4] [1]Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan [2]Department of Microbiology and Immunology, School of Medicine, College of Medicine, Taipei Medical University Taipei, Taiwan [3]School of Respiratory Therapy, College of Medicine, Taipei Medical University, Taipei, Taiwan [4]Center of Infectious Diseases and Signaling Research, National Cheng Kung University, Tainan, Taiwan
O67	15:50-15:58	Critical Roles of the Histone Methyltransferase KMT2D Complex in Establishing an Active enhancer Landscape in Normal and Pathological Conditions 劉大猷 , 王書品 * Ta-Yu Liu and Shu-Ping Wang* Institute of Biomedical Science, Academia Sinica, Taipei, Taiwan
O68	15:58-16:06	The Pathogenic Role of the IL-12-IL-21 Axis in Autoimmune Diabetes 簡韻倢 [1,*]、 傅馨慧 [1,2]、司徒惠康 [1,2,#] Yun-Jie Jian[1], Shin-Huei Fu[1,2], Huey-Kang Sytwu[1,2] [1]Department and Graduate Institute of Microbiology and Immunology, National Defense Medical Center, Taipei, Taiwan [2]National Institute of Infectious Disease and Vaccinology, National Health Research Institutes, Miaoli County, Taiwan
O69	16:06-16:14	IL-21 Attenuates Blimp-1 Deficiency-Mediated Experimental Autoimmune Encephalomyelitis by Increasing IL-10 Production 董佳鈴 [1] 簡明偉 [1] 司徒惠康 [1,2] Jia-Ling Dong[1], Ming-Wei Chen[1], Huey-Kang Sytwu[1,2] [1]Department and Graduate Institute of Microbiology and Immunology, National Defense Medical Center, Taipei, Taiwan [2]National Institute of Infectious Disease and Vaccinology, National Health Research Institutes, Miaoli County, Taiwan
O70	16:14-16:22	IL-22 controls Crohn's adherent-invasive Escherichia coli (AIEC) during DSS-induced inflammation 江宏宇 [1], 施念忻 [1], 呂學翰 [1], 蕭湘蓉 [1], 徐志文 [1*] Hung-Yu Chiang[1], Nien-Shin Shih[1], Hsueh-Han Lu[1], Hsiang-Jung Hsiao[1], Jr-Wen Shui[1*] [1]Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan

台灣分子生物影像學會

時間：3 月 24 日 (周日) 14:30-16:45
地點：2 樓，第 20 教室
主持人：鄧文炳教授、李易展教授、林康平教授

編號	時段	演講者 & 講題
O71	14:30 – 14:48	Blood pressure analysis of different blood pressure models 陳沛螢 [1], 丁浩恁 [1], 陳美芬 [1], 林汶正 [1,2], 林康平 [1,2] Pei-Ying Chen [1], Hao-Jen Ting [1], Mei-Fen, Chen [1], Wen-Chen, Lin [1,2] and Kang-Ping, Lin[1,2] [1]Department of Electrical Engineering, Chung Yuan Christian University, Chungli, Taiwan [2]Technology Translation Center for Medical Device, Chung-Yuan Christian University, Taiwan
O72	14:49 – 15:07	Optical detection of non-blanchable erythema of skin in the early stage of pressure injury 呂紹弘 , 余明憲 , 陳美芬 , 林康平 , 蔡正倫 Shoa-Hung Lu, Ming-Hsien Yu, Mei-Fen Chen, Kang-Ping Lin, Cheng-Lun Tsai Chung Yuan Christian University
O73	15:08 – 15:26	Effects of attenuation correction methods on quantitative analysis between PETCT and PETMR 諶立成 , 吳承翰 , 楊邦宏 *, 陳志成 * Li-Chen (Michael) Shen; Cheng-Han Wu; Bang-Hung Yang*; Jyh-Cheng Chen* Department of Biomedical Imaging and Radiological Sciences, National Yang-Ming University, Taipei, Taiwan; Department of Nuclear Medicine, Taipei Veteran's General Hospital, Taipei, Taiwan
O74	15:27 – 15:45	Characterization and in vivo tracking of mesenchymal stem cells derived extracellular vesicles 呂承烋 , 陳怡安 , 柯建志 , 陳昭政 , 劉仁賢 Cheng-Hsiu Lu, Chien-Chih Ke, Yi-An Chen, Chao-Cheng Chen, and Ren-Shyan Liu National Yang-Ming university
O75	15:46 – 16:04	MicroRNA-29a enhances Runx2 acetylation to mitigate glucocorticoid-induced osteoporosis in mice 郭仲文 [1], 孫儀芝 [1], 謝進貴 [1], 陳于珊 [1], 郭繼陽 [2], 王逢興 [1*] Chung-Wen Kuo[1], Yi-Chih Sun[1], Chin-Kuei Hsieh[1], Yu-Shan Chen[1], Jih-Yang Ko[2], Feng-Sheng Wang[1*] [1]Department of Medical Research, [2]Department of Orthopedic Surgery, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan
O76	16:05 – 16:23	Optimization of Micro CT Image to increase biophysiology applications 柯惠菁 , 連韋雄 , 王逢興 * Huei-Jing Ke, Wei-Shiung Lian, Feng-Sheng Wang* Department of Medical Research, Core Laboratory for Phenomics and Diagnostics, Kaohsiung Chang Gung Memorial Hospital

第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

看板論文目錄

Titles of the Poster Presentations

A 3/23 上午組 B 3/23 下午組
C 3/24 上午組 D 3/24 下午組

大會口頭論文競賽，現場海報張貼及解說時間

A. 大會主題競賽將於 3 月 24 日（日）大會特別演講後進行大會主題競賽頒獎。
B. 競賽時間與地點如下：

3 月 23 日（六）	論文編號	教室地點
15:00-17:10	O01-O08	三樓， 31 教室

2019/03/23

	論文張貼時間	展示時間	報告者現場解說時間	拆除時間
上午組	9:00~9:30	9:30~12:00	11:00~11:45	12:00 以前
下午組	12:15~12:45	12:45~17:00	12:45~13:30	17:10 以前

2019/03/24

	論文張貼時間	展示時間	報告者現場解說時間	拆除時間
上午組	9:00~9:30	9:30~12:45	11:45~12:30	12:45 以前
下午組	12:45~13:30	13:30~17:00	13:30~14:15	17:10 以前

看板論文張貼時段

學會	3/23 上午組	3/23 下午組	3/24 上午組	3/24 下午組	合計篇數
中華民國細胞及分子生物學學會	CM001-CM029 (29 篇)	CM030-CM057 (28 篇)	CM058-CM085 (28 篇)	CM086-CM113 (28 篇)	113 篇
中華民國臨床生化學會	CB001-CB018 (18 篇)	CB019-CB035 (17 篇)			35 篇
中華民國毒物學學會	TX001-TX020 (20 篇)	TX021-TX040 (20 篇)	CB041-CB060 (20 篇)	CB061-CB080 (20 篇)	80 篇
中國生理學會	PY001-PY045 (45 篇)	PY046-PY090 (45 篇)	PY091-PY135 (45 篇)	PY136-PY181 (46 篇)	181 篇
台灣藥理學會	PH001-PH037 (37 篇)	PH038-PH074 (37 篇)	PH075-PH111 (37 篇)	PH112-PH146 (35 篇)	146 篇
中華民國解剖學學會	展示性海報 (34 篇)		競賽性暨教學性海報 (39 篇)		73 篇
台灣生物化學及分子生物學學會	BC001-BC045 (45 篇)	BC046-BC086 (41 篇)	BC087-BC128 (42 篇)	BC129-BC173 (45 篇)	173 篇
中華民國免疫學會	奇數的編號請於 3/23 張貼 偶數的編號請於 3/24 張貼 IM001-IM079 (79 篇)				79 篇
台灣分子生物影像學會	MI001-MI007 (7 篇)	MI008-MI014 (7 篇)	MI015-MI021 (7 篇)	MI022-MI027 (6 篇)	27 篇
合計篇數	257 篇	211 篇	234 篇	204 篇	906 篇

A 3/23 上午組 中華民國細胞及分子生物學學會

海報編號	論文題目
CM001	The Regulatory Mechanism of DNA Methylation of Cyclooxygenase-2 Gene in Ketamine-induced Cystitis 李懿倫 [1,2]、吳炳男 [2,3]、莊淑棉 [4]、阮雍順 [2,5] Yi-Lun Lee[1,2], Bin-Nan Wu[2,3], Shu-Mien Chuang[4], Yung-Shun Juan[2,5]
CM002	Investigation of anticancer bioactivity of Taiwan natural plant aqueous crude extract 褚兆軒、張倍綺、羅梓游、陳銘發 、劉銘 Chao-Hsuan Chu, Pei-Chi Chang, Tsz Yau Law, Ming-Fa Chen, Min Liu
CM003	Neuroprotection of Retinal Ganglion Cells by inhibiting E3-Ubiquitin Ligase after Optic Nerve Crush Surbhi Agarwal, 簡嘉瑩，黃舜平 Surbhi Agarwal, Jia-Ying Chien, Shun-Ping Huang
CM004	Investigation and characterization of the expression and distribution of protein p38 in mouse testis and spermatozoa 鄭力慈、褚兆軒、嚴鈞賢、劉銘 Li-Tzu Cheng, Chao-Hsuan Chu, Chun-Hsien Yen, Min Liu
CM005	Impaired DNA Damage Repair and Response Signaling by HDAC6 Inhibition as a Therapeutic Strategy for Glioblastoma 楊文賓 [1]，徐宗溢 [2]，莊健盈 [2*]，張文昌 [1*] Wen-Bin Yang[1], Tsung-I Hsu[2], Jian-Ying Chuang[2*] and Wen-Chang Chang[1*]
CM006	Osthole attenuates advanced glycation end products-induced renal tubular hypertrophy via induction of klotho expression and suppression of JAK/STAT signaling 林筱彤，林平正，黃昭祥 Hsiao-Tung Lin, Ping-Cheng Lin, Jau-Shyang Huang
CM007	Recombinant Subunit Vaccine NNVCP-S5E Efficacy Under Different Temperatures Against Nervous Necrosis Virus Infection and Immune Response Induced by Vaccine 江翰鍇 [1, 2, 3]、王廷瑜 [1, 2, 3]、陳宗嶽 [1, 2, 3, 4] Han-Kai Jiang[1, 2, 3]、Ting-Yu Wang[1, 2, 3]、Tzong-Yueh Chen[1, 2, 3, 4]
CM008	STK24 Promotes Tumor Progression is Associated with Loss of SMAD4 and Promotion of Autophagy in PDAC 吳姵宜，翁靖傑，洪文俊，陳立宗，鄭光宏 Pei-Yi Wu, Ching-Chieh Weng, Wen-Chun Hung, Li-Tzong Chen, Kuang-Hung Cheng
CM009	Store-operated Ca2+ Entry Regulates the Dynamic of Focal Adhesions 林懿莘，邱文泰 * Yi-Hsin Lin, Wen-Tai Chiu*
CM010	Regulation of Liver Cirrhosis and Hepatocellular Carcinoma Progression by MAPK signaling pathway 張瓊方 [1*]，盧賜蓉 [1]，吳思樺 [2]，洪子涵 [1]，鄭國祥 [1] Chiung-Fang Chang[1*], Ssu-Jung Lu[1], Szu-Hua Wu[2]., Zih-Hang Hung[1]., Kuo-Shyang Jeng[1]
CM011	Epigallocatechin-3-gallate Modulates the Metabolic Pathway of Primay Effusion Lymphoma Cells 葉玲君、徐慧雯、周妙真、黃美涵、林冠華、王怡棻 * Ling-Chun Yeh, Huey-Wen Shyu, Miao-Chen Chou, Mei-Han Huang, Kuan-Hua Lin, Yi-Fen Wang*
CM012	The Role of Ca2+ in the Regulation of an Oncogenic Transcription Factor Forkhead Box M1 (FOXM1) in Ovarian Cancer 沈珍安，邱文泰 Chen-An Shen, Wen-Tai Chiu
CM013	Rab37-Mediated Exocytosis of Chitinase 3-like 1 (Chi3L1) in T cells in Promoting Lung Cancer Progression 楊佩姍 [1]，曾鴻泰 [2]，王憶卿 [1,2*] Pei-Shan Yang[1], Hong Tai Tzeng[2], Yi-Ching Wang[1,2*]
CM014	Small molecule cocktails induce MSC osteogenesis and adipogenesis 林柏毓，林柏亨，賴培倫，呂仁 Po -Yu Lin, Po-Heng Lin, Pei Lun Lai, Jean Lu
CM015	Association of PPAR-alpha genetic polymorphisms in the beneficial of n-3 PUFAs with major depressive disorder 林羽嬋 [1,2]，謝瓊如 3，簡毓娟 [1]，姜憶如 [1,4]，蘇冠賓 [1,2,4] Lin YC[1,2], Hsieh AR3, Chien YC[1], Chiang YJ[1,4], Su KP[1,2,4]

海報編號	論文題目
CM016	Radioprotective Effect of Isorhamnetin-3-O-β-D-glucoside From Radiation Exposure in BNL CL.2 Normal Mouse Liver Cells. 黃栢儒 [1,6], 鍾綺雯 [1,2,6], 賴恒如 [3], 賴品君 [4], 賴易成 [1,2,5,6] Bo-Ru Huang[1,6], Yee-Mun Choong [1,2,6], Heng-Ju Lai [3], Alicia Lai [4], I-Cheng Lai, M.D.[1,2,5,6]
CM017	The potential role of Dicer in chemoresistent colorectal cancer 楊子毅、林勵娟、洪良宜 * Zi-Yi Yang, Li-Jyuan Lin, Liang-Yi Hung*
CM018	Investigation of a de novo mutation in human tropomyosin 3 of congenital myopathies in zebrafish 許博睿 [1, 2], 鐘育志 [3, 4, 5], 汪宏達 2, 喻秋華 [1, 3, 6*] Po-Jui Hsu[1, 2], Yuh-Jyh Jong3[3, 4, 5], Horng-Dar Wang2, Chiou-Hwa Yuh[1, 3, 6*]
CM019	Genome-Wide Association Study Identifies a Functional Variant Associated with Breast Cancer Survival by Promoting Cancer Immunity 周文城 , 熊嘉妮 , 陳威婷 , 沈志陽 * Wen-Cheng Chou, Chia-Ni Hsiung, Wei-Ting Chen, Chen-Yang Shen*
CM020	TERRA regulates telomere integrity in mammalian cells 詹勝甯 [1], 方國禎 [2], 朱雪萍 [3] Sheng-Ning Chan[1], Guo-Chan, Fang [2], Hsueh-Ping Chu [3]
CM021	Generation of Monoclonal Antibodies Targeting Integrin α3 with Therapeutic Potential Against Ovarian Cancer 陳宛余 , 林明杰 , 郭冠廷 , 吳漢忠 Wan-Yu Chen, Ming-Chieh Lin, Kuan-Ting Kuo* and Han-Chung Wu*
CM022	The cAMP/PKA-mediated Tau Phosphorylation through GSKIP/GSK3β Axis in SH-SY5Y, Induced Pluripotent Stem Cells, Cerebrospinal Fluid of Alzheimer's Disease 賴雲鈴，王尹軒，柯慧君，林承彥，朱晟瑋，黃奇英，洪義人 Yun-Ling Lai ，Yin-Hsuan Wang，Huey-Jiun Ko，Chen-Yen Lin，Cheng-Wei Chu，Chi-Ying F. Huang，Yi-Ren Hong
CM023	Genetic and Epigenetic Alteration of PKM Gene in Type II Diabetes Mellitus Patients with Diabetic Nephropathy. 廖文伶 , 蔡輔仁 Nguyen Tran The Hung[1], Wen-Ling Liao[2 3], Ya-Fei Yang[4], Chia-Ming Wu[7], Chiz-Jzung Chang[4 5], Fuu-Jen Tsai6 [7 8]
CM024	Axl-mediated Epigenetic Repression of Mir-483-5p Upregulates Elk-1 and Promotes Proliferatoion of Breast Cancer Cells 吳冠勳 [1], 莫冠琦 [1], 方慈媛 [1], 陳宗澤 [1], 謝義興 [2], 莊雙恩 [1], 夏興國 [1*] Guan-Hsun Wu[1], Kuan-Chi Mo[1], Cih-Yuan,Fang[1], Tsung-Tse Chen[1], Yi-Shing Shieh[2], Shuang-En Chuang[1], Shine-Gwo Shiah[1*]
CM025	Study the role of NRF2 in malignant transformation of head and neck squamous cell carcinoma 湯雅筑 [1,2], 蕭振仁 [3], 黃彥文 [4], 張俊彥 [4,5], 莊永仁 [6,7*], 郭靜娟 [2*] Ya-Chu Tang[1,2], Jenn-Ren Hsiao[3], Yen-Weng Huang[4], Jang-Yang Chang[4,5], Yung-Jen Chuang[6,7*], Ching-Chuan Kuo[2*]
CM026	Mannose Receptor C Type 2 Expression Is Increased in Gastric Cancerous and Its Adjacent Stromal Tissues and Subsequently Dampens Overall Survival Rate of Patients 林明宏，陳怡庭，邱馨瑩，蔡淑閔，陳怡臻，劉忠榮，胡晃鳴，吳宗勳，黃嘯谷，吳登強 Ming-Hong Lin, Yi-Ting Chen, Hsin-Ying Chiou, Shu-Min Tsai, Yi-Chen Chen, Chung-Jung Liu, Huang-Ming Hu, Tzung-Shiun Wu, Shu-Ku Huang, Deng-Chyang Wu
CM027	Effect of STMI1 activity on ER stress-mediated apoptosis 金麟娟，邱文泰 Lin-Chuan Chin, Wen-Tai Chiu
CM028	Novel Hsp70 Inhibitor Effectively Targets Breast Cancer Stem Cells 呂夢恬 , 張誌祥 , 朱伯振 Meng-Tien Lu, Chih-Shiang Chang, Po-Chen Chu
CM029	TERRA and DNA Damage Responsive Proteins Regulate Alternative Lengthening of Telomere 顧家瑜、朱雪萍 Chia-Yu, Guh、Hsueh-Ping Chu

A 3/23 上午組 中華民國臨床生化學會

海報編號	論文題目
CB001	Metformin attenuates high fat diet-induced artery calcification by increasing autophagy in LDL -/- mice 林植培 , 黃柏勳 , 林幸榮 , 陳嘉雄 Chih-Pei Lin[1,2*], Po-Hsun Huang[3,4],, Shing-Jong Lin[3,4], Jia-Shiong Chen[4]
CB002	Health Status of Laboratory Rodents in Vivarium: A Multiple Center Survey 林宛青，徐慧纓，謝進貴，連韋雄，孫儀芝，王逢興 Wan-Ching Lin, Hui-Ying Hsu, Chin-Kuei Hsieh, Wei-Shiung Lian, Yi-Chih Sun , Feng-Sheng Wang
CB003	Effects of computer-assisted navigation versus conventional total knee arthroplasty on the levels of inflammation markers: A prospective study 許雅鴻 , 蔡采臻 , 郭書瑞 , 蕭家傑 , 郭繼陽 Ya-Hung Hsu, Tsai-Chen Tsai, Shu-Jui Kuo, Ka-Kit Siu, Jih-Yang Ko
CB004	Vaccines of Sclerostin Prevents Estrogen Deficiency Induced Bone Mass Loss and Osteoporosis 謝進貴 , 蔡采臻 , 孫儀芝 , 郭繼陽 , 王逢興 Chin-Kuei Hsieh, Tsai-Chen Tsai, Yi-Chih Sun, Jih-Yang Ko, Feng-Sheng Wang
CB005	Proofreading assay of insertion/deletion loops using MALDI-TOF mass spectrometry 林貴卿、周能安 Keui-Ching Lin、Neng-An Chou
CB006	Application of MALDI-TOF mass spectrometry for DNA repair enzyme activity 張惠嵐 , 顏榕宣 Hui-Lan Chang,Rong-Syuan Yen
CB007	Increasing the Success Rate of Critical Value Reporting within 30 Minutes in Emergency Department 王瑀 , 王碧娥 , 鄭靜芸 , 林威丞 , 陳子軒 , 黃國龍 , 廖偉鴻 , 卓訓樟 , 蔡宛霖 , 王馨茹 , 溫瀅皓 , 甯孝真 Yu Wang, Bih-Er Wang, Ching-Yun Cheng, Wei-Cheng Lin, Tzu-Hsuan Chen, Kuo-Lung Huang, Wei-Hong Liao, Hsun-Chang Cho, Wan-Lin Tsai, Hsin Ju Wang, Ying-Hao Wen, Hsiao-Chen Ning
CB008	Quantification Fatty Acid Formation in Bone Marrow cavity within Osteoporotic Skeletons by μCT and μMRI images investigation 吳欣龍 , 柯惠菁 , 連韋雄 , 王逢興 Shing-Long Wu, Huei-Jing Ke, Wei-Shiung Lian, Feng-Sheng Wang
CB009	Comparison of PETINIA and UPLC-MS/MS Method for Quantitation of Plasma Mycophenolic Acid in Patients after Kidney Transplantation 黃韻芬 [1], 黃雅卿 [1,2], 林佳霓 [1,2,3], 甯孝真 [1,2*] Yun-Fen Huang[1], Ya-Ching Huang[1,2], Chia-Ni Lin[1,2,3], Hsiao-Chen Ning[1,2*]
CB010	Unraveling the Regulation and Function of lncRNA UBA6-AS1 in Metabolic Stress Response of Breast Cancer. 吳宜臻，陳憶萱，郭靜穎 Yi-Zhen Wu, Yi-Hsuan Chen, Ching-Ying Kuo
CB011	Glucosaminyl N-deacetylase/N-sulfotransferase 4 Acts as a Tumor Suppressor and Modulates Macrophage Polarization in Colorectal Cancer 林琬璇 [1], 陳秀婷 [1], 曾晟泰 [1], 黃琦雁 [1], 蔡明宏 [2,3], 楊雅倩 [1,4*] Wan-Syuan Lin[1], Shiou-Ting Chen[1], Sheng-Tai Tzeng1, Chi-Yan Huang1, Ming-Hong Tsai[2,3] and Ya-Chien Yang[1,4*]
CB012	Regulation of Lipid Metabolism by Presenilin-Associated Rhomboid-Like Protein 朱奕翰 [1], 蕭明裕 [2], 張懿欣 [1] Yi-Han Chu[1], Ming-Yuh Shiau[2] , Yih-Hsin Chang[1*]
CB013	Molecular Detection of Gastrointestinal Virus in Children population in Taiwan. 周雨青 , 余嘉鵬 Yu-Ching Chou, Chia-Peng Yu
CB014	IDH-1 deficiency induces growth defects and metabolic alterations in G6PD-deficient Caenorhabditis elegans 楊宏基 , 余祥 , 劉祐丞 , 陳姿伶 , 史登 , 羅時成 , 趙崇義 Hung-Chi Yang, Hsiang Yu, You-Cheng Liu, Tzu-Ling Chen, Arnold Stern, Szecheng J. Lo, Daniel Tsun-Yee Chiu

海報編號	論文題目
CB015	Impairment of Inflammasome Activation in G6PD Deficiency via Dysregulation of p38/MAPK Pathway 顏薇真，吳治慶，吳依璇，趙崇義 Wei-Chen Yen[1], Chih-Ching Wu[1], Yi-Hsuan Wu[2], Daniel Tsun-Yee Chiu[1,2,3]
CB016	NGS-grade Nucleic Acid Extraction and Optimization for Clinical Samples 陳姿伶 , 賴明龍 Tzu-Ling Chen, Min-Long Lai
CB017	Role of Metabolic Stress-Induced miR-20b in Regulating Mitochondrial Dynamics in Breast Cancer. 劉育書 , 劉格均 , 郭靜穎 Yu-Shu Liu, Ge-Jyun Liu, Ching-Ying Kuo
CB018	Using metabolomics approach to define distinct metabolic pathway for G6PD-deficient cells upon Berberine treatment 余祥 , 唐湘瑜 , 鄭為仁 , 姜智釗 , 謝喜龍 , 黃聰龍 , 鄭美玲 , 趙崇義 Hsiang Yu, Hsiang-Yu Tang, Wei-Jen Cheng, Chih-Chao Chiang, Hsi-Lung Hsieh, Tsong-Long Hwang, Mei-Ling Cheng, Daniel Tsun-Yee Chiu

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TX001	Carbon monoxide releasing molecule-2 protects against particulate matter-induced lung inflammation by inhibiting TLR2 and 4/ROS/NLRP3 inflammasome activation 李宜達 I-Ta Lee
TX002	Reducing Endoplasmic Reticulum Stress Pathways with Concomitant Inhibition of Apoptosis and Autophagy Promote CL1 Lung Cancer Cells' Drug Resistance to Gemcitabine 邱致豪 , 黃志揚 Chih-Hao Chiu, Chih-Yang Huang
TX003	Investigation of the molecular mechanism of IGF-IIRα in accelerated-aging transgenic animal model 陳愷立 , 黃智洋 , 郭薇雯 , 黃志揚 Kai-Li Chen, Chih-Yang Huang, Wei-Wen Kuo and Chih-Yang Huang
TX004	Tumor progression locus 2 (Tpl2) Signaling in Melanoma Dampens the Therapeutic Privilege of Autophagy Constraint 邢相媛、許美鈴 Hsiang-Yuan Hsing, Meei-Ling Sheu
TX005	Activating transcription factor 4 (ATF4) inhibits hypoxia-induced epithelial to mesenchymal transition and peritoneal dissemination by HIF-1α/Snail axis 歐蕙葶 [1], 許美鈴 [1*] Hui-Ting Ou[1], Meei-Ling Sheu[1*]
TX006	A study of the mechanism of renal toxicity induced by Co-exposure of food contaminants 3-MCPD and Glycidol 陳容甄 Rong-Jane Chen
TX007	Study of Alleviating Pesticide-induced Allergic Contact Dermatitis Via Inhibit ROS And Inflammasome Activation 鄭詠璇 [1], 李宥萱 [2], 王應然 [*1,2] Yung-Hsuan Cheng[1], Yu-Hsuan Lee[2], Ying-Jan Wang[*1,2]
TX008	Gallic acid regulates miR-34a to improve the diabetic steatohepatitis in HFD-fed db/db mice 楊孟元 , 李昂澤 , 王朝鐘 Mon-Yuan Yang, Ang-Tse Lee, Chau-Jong Wang
TX009	Production of Polyclonal Antibodies and Their Application to ELISA and Gold Nanoparticle Immunochromatographic Strip for Florfenicol 趙子惟 , 吳仕偉 , 余豐益 Tzu-Wei Chao , Shih-Wei Wu , Feng-Yih Yu

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TX010	The Toxicological Effects of Silver Nanoparticles on Immune System in Zebrafish Model and the Protective Effect of Natural Compound 黃巧菁 [1], 李宥萱 [1], 王應然 *[1,2] Chiao-Ching Huang [1], Yu-Hsuan Lee[1],Ying-Jan Wang *[1,2]
TX011	Production of polyclonal Antibody and Development of ELISA and Gold Nanoparticle Immunochromatographic Strip for Cephalexin 洪宗蓮，吳仕偉，李怡萱，余豐益 Chung-Lien Hung, Shih-Wei Wu, Yi-Syuan Li, Feng-Yih Yu
TX012	Silver Nanoparticles (AgNPs) Induce ROS-mediated Cellular Damages and Reduce Longevity in Drosophila 陳姿羽 Zi-yu chen
TX013	The Roles of Alpha-Adducin Protein in Pancreatic Cancer 詹靖瑄 , 華國泰 Ching-Hsuan Chan, Kuo-Tai Hua
TX014	Production of Polyclonal Antibody and Development of ELISA and Gold Nanoparticle Immunochromatographic Strip for Trimethoprim 王思瓔 , 吳仕偉 , 楊建洲 , 余豐益 Ssu-Ying Wang, Shih-Wei Wu, Jiann-Jou Yang, Feng-Yih Yu
TX015	Beta-Cell Protective Effects of Lotus Seedpod Extracts Against Oxidative Injury 吳珮慈 [1], 吳珮萱 [2], 王思喻 [1], 陳璟賢 [2]*, 林慧萱 [1]* Pei-Tzu Wu[1], Pei-Hsuan Wu[2], Szu-Tu Wang[1], Jing-Hsien Chen[2]*, Hui-Hsuan Lin[1]*
TX016	Anti-Atherosclerotic Effect of Hibiscus Leaf Polyphenolic Extract Against Abnormal Vascular Smooth Muscle Cell Migration and Proliferation 楊薇楨 [1], 連宜靖 [1], 蔡里安 [1], 陳璟賢 [2]*, 林慧萱 [1]* Wei-Chen Yang[1], Yi-Jing Lian[1], Li-An Tsai[1], Jing-Hsien Chen[2]*, Hui-Hsuan Lin[1]*
TX017	Evaluation the Protective Effects of Natural Products against Osteoarthritis via Inactiation of NLRP3 Inflammasome by in vivo and in vitro studies. 張喻婷 , 陳容甄 Yu-Ting Chang, Rong-Jane Chen
TX018	Resveratrol-loaded nanoparticles suppress NLRP3 inflammasome activation for potential use in alcoholic liver disease 黃喻瑄 , 李宥萱 * Yu-Hsuan Huang, Yu-Hsuan Lee*
TX019	Genistein prevents ultraviolet B radiation-induced wrinkle formation and collagen degradation in mice dorsal skin and human keratinocyte cell line 湯曉君 [1]*，廖沛昀 [2]，湯麗君 [3]*，楊仁宏 [4]* Sheau-Chung Tang[1], Pei-Yun Liao[2], Lee-Chun Tang*[3], Jen-Hung Yang*[4]
TX020	The botanical drug, BL-12, inhibits gadolinium deposition and toxicity in Magnetic Resonance Imaging 林哲豪 , 謝佳宏 Zhe Hao Lin , Chia-Hung Hsieh

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PY001	Novel Combination of Arsenic Trioxide (As2O3) Plus Resveratrol in Inducing Programmed Cell Death of Human Neuroblastoma SK-N-SH Cells 程縈萱 [1,2], 蔡佳紋 [2], 張文馨 [2], 王如玉 [3], 龔志力 [2], 鄭文郁 [4,5], 楊怡津 [6], 洪義文 [6], 包大贏 [2,5,7]* Chi-Hsuan Cheng[1,2], Chia-Wen Tsai[2], Wen-Shin Chang[2], Ju-Yu Wang[3], Chi-Li Gong[2], Wen-Yu Cheng[4,5], Yi-Chin Yang[6], Yi-Wen Hung[6], Da-Tian Bau[2,5,7]*

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PY002	LC3B and SQSTM1 modulated tumorigenesis and prognosis in buccal mucosal squamous cell carcinoma Chih-Wen Shu[1], Jiin-Tsuey Cheng[2], Yi-Jing Li[2] and Luo-Ping Ger[3]
PY003	Contribution of Excision Repair Cross-Complementing Group 1 Genotypes to Triple Negative Breast Cancer 許珮甄 [1], 蔡佳紋 [2], 張文馨 [2], 沈德群 [2,3], 蘇正賢 [2], 王惠暢 [2], 包大贏 [2,3,4*] Pei-Chen Hsu[1], Chia-Wen Tsai[2], Wen-Shin Chang[2], Te-Chun Shen[2,3], Chen-Hsien Su[2], Hwei-Chung Wang[2], Da-Tian Bau [2,3,4*]
PY004	Association of Polymorphisms in DNA Repair Gene XRCC3 with Asthma in Taiwan 莊志亮 [1,2], 蕭琬云 [3,6], 蔡佳紋 [4], 張文馨 [4,7], 趙哲毅 [8], 陳偉峻 [5,6], 沈德群 [4,7], 夏德椿 [4,5,6], 包大贏 [4,7,9*] Chin-Liang Chuang[1,2], Wan-Yun Hsiao[3,6], Chia-Wen Tsai[4], Wen-Shin Chang[4,7], Che-Yi Chao[8], Wei-Chun Chen[5,6], Te-Chun Shen[4,7], Te-Chun Hsia[4,5,6], Da-Tian Bau[4,7,9*]
PY005	Investigate the roles of Discoidin domain receptor 1 in bone fracture healing 何晨希 , 周亮吟 , 周妤 , 林逸翔 , 莊淑君 , 陳崇桓 *, 王昭仁 * Chen-Xi He, Laing-Yin Chou, Yu Chou, Yi-Hsiung Lin, Shu-Chun Chuang,Shu-Chun Chuang,Chung-Hwan Chen*, Chau-Zen Wang*
PY006	Effects of Erk-activator t-BHQ and –inhibitor PD0325901 on the RANKL-induced osteoclastogenesis 邱彥旻, 劉英明 Yen-Ming Chiu,Ying-Ming Liou
PY007	The Contribution of Double Strand Break Repair Gene NBS1 Genotypes to Taiwan Adult Asthma 潘佳宜 [1], 陳冠良 [2,3,4], 王守正 [3,4], 莊志亮 [3,4], 夏德椿 [1], 沈德群 [1,2], 張文馨 [1,2], 蔡佳紋 [1,2], 包大贏 [1,2*] Chia-Yi Pan[1], Guan-Liang Chen[2,3,4], Shou-Cheng Wang[3,4], Chin-Liang Chuang[3,4], Te-Chun Hsia[1], Te-Chun Shen[1,2], Wen-Shin Chang[1,2], Chia-Wen Tsai[1,2], Da-Tian Bau[1,2*]
PY008	The Contribution of Matrix Metalloproteinase-1 Promoter Genotypes in Taiwan Lung Cancer Risk 沈德群 [1,2,3], 陳偉峻 [2], 夏德椿 [2,3], 張文馨 [3], 蔡佳紋 [3], 林怡廷 [3], 蕭捷倫 [3], 趙哲毅 [4], 許哲綸 [5], 包大贏 [1,3,6*] Te-Chun Shen[1,2,3], Wei-Chun Chen[2], Te-Chun Hsia[2,3], Wen-Shin Chang[3], Chia-Wen Tsai[3], Yi-Ting Lin[3], Chieh-Lun Hsiao[3], Che-Yi Chao[4], Che-Lun Hsu[5], Da-Tian Bau[1,3,6*]
PY009	Association of Matrix Metalloproteinase-7 Genotypes to the Risk of Oral Cancer in Taiwan 施亮均 [1,2], 陳亮宇 [2], 許哲綸 [2], 李青澔 [3], 孫國丁 [3], 洪義文 [4], 吳正男 [5], 蔡佳紋 [5,6], 夏德椿 [6], 沈德群 [6], 張文馨 [6], 施子卿 [7], 包大贏 [1,6,8*] Liang-Chun Shih[1,2], Liang-Yu Chen[2], Che-Lun Hsu[2], Ching-Hao Li[3], Kuo-Ting Sun[3], Yi-Wen Hung[4], Cheng-Nan Wu[5], Chia-Wen Tsai[5,6], Te-Chun Hsia[6], Te-Chun Shen[6], Wen-Shin Chang[6], Tzu-Ching Shih[7], Da-Tian Bau[1,6,8*]
PY010	The Association of MMP-8 Genotypes with Pterygium 胡佩欣 [1], 張文馨 [2], 蔡佳紋 [2], 夏寧憶 [2], 林佳玟 [2], 吳芩紋 [2], 周安國 [2,3], 洪義文 [4], 吳孟峰 [5], 廖丞晞 [6], 龔志力 [8], 包大贏 [2,6,7*] Pei-Shin Hu[1], Wen-Shin Chang[2], Chia-Wen Tsai[2], Ning-Yi Hsia[2], Chia-Wen Lin[2], Cin-Wun Wu[2], An-Kuo Chou[2,3], Yi-Wen Hung[4], Meng-Feng Wu[5], Cheng-Hsi Liao[6], Chi-Li Gong[8], Da-Tian Bau[2,6,7*]
PY011	The Contribution of Interleukin-8 Genotypes and Expression to Nasopharyngeal Cancer Susceptibility in Taiwan 陳昭淳 [1], 張文馨 [2], 蔡佳紋 [2], 夏德椿 [2], 沈德群 [2], 包大贏 [2,3,4*] Chao-Chun Chen [1], Wen-Shin Chang[2], Chia-Wen Tsai[2], Te-Chun Hsia[2], Te-Chun Shen[2], Da-Tian Bau[2,3,4*]
PY012	High fructose diet-induced early mortality via autophagy factors accumulation in the rostral ventrolateral medulla is ameliorated by Pioglitazone 洪純瑛 , 吳志偉 , 陳怡君 , 吳芎歷 Chun-Ying Hung, Chih-Wei Wu, I-Chun Chen and Kay Li-Hui Wu
PY013	The Association of Matrix Metalloproteinase-8 Promoter Genotypes in Breast Cancer 蕭捷倫 [1,2,3]，劉良智 [4]，施子卿 [5]，莊志亮 [6]，陳冠良 [3,6]，王惠暢 [1,4]，潘述翌 [1,5]，沈德群 [1,3]，蔡佳紋 [1]，張文馨 [1]，魏宗德 [2]，鍾景光 [2]，包大贏 [1,2,3,7*] Chieh-Lun Hsiao[1,2,3], Liang-Chih Liu[4], Tzu-Ching Shih[5], Chin-Liang Chuang[6], Guan-Liang Chen[3,6], Hwei-Chung Wang[1,4], Su-Yi Pan[1,5], Te-Chun Shen[1,3], Chia-Wen Tsai[1], Wen-Shin Chang[1], Tzong-Der Way[2], Jing-Gung Chung[2], Da-Tian Bau[1,2,3,7*]

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PY014	The Efficacies and Signaling Network of Phenethyl Isothiocyanate Plus Gefitinib to Induce Cell Apoptosis of NF- B-Overexpression Human NSCLC Cells 王守正 [1,2], 陳冠良 [1,2], 莊志亮 [1,2], 夏德椿 [3,4], 沈德群 [3,4], 張文馨 [3], 蔡佳紋 [3], 包大贏 [3*] Shou-Cheng Wang[1,2], Guan-Liang Chen[1,2], Chin-Liang Chuang[1,2], Te-Chun Hsia[3,4], Te-Chun Shen[3,4], Wen-Shin Chang[3], Chia-Wen Tsai[3], Da-Tian Bau[3*]
PY015	The Effects of ADAMTS5 Overexpression in Anti-Cisplatin Gastric Cancer Cells 傅俊凱 [1,2,3], 岳德政 [1,2,3], 巫旻憲 [2,3], 鄭隆賓 [4], 楊美都 [4], 王韻琪 [4], 張文馨 [4], 蔡佳紋 [4], 包大贏 [1,4,5*] Chun-Kai Fu[1,2,3], Te-Cheng Yueh[1,2,3], Ming-Hsien Wu[2,3], Long-Bin Jeng[4], Mei-Due Yang[4], Yun-Chi Wang[4], Wen-Shin Chang[4], Chia-Wen Tsai[4], Da-Tian Bau[1,4,5*]
PY016	The Novel Genotype-Phenotype Correlation of Mir-146a for Liver Cancer Cellsa 賴昱良 [1,2], 岳德政 [1,2,3], 巫旻憲 [1,2], 王守正 [1,5], 楊美都 [4], 鄭隆賓 [4], 張文馨 [4], 蔡佳紋 [4], 包大贏 [1,4*] Yi-Liang Lai[1,2], Te-Cheng Yueh[1,2,3], Ming-Hsien Wu[1,2], Shou-Cheng Wang[1,5], Mei-Due Yang[4], Long-Bin Jeng[4], Wen-Shin Chang[4], Chia-Wen Tsai[4], Da-Tian Bau[1,4*]
PY017	Atypical Antipsychotic Drug Olanzapine Deregulates Hepatic Lipid Metabolism and Aortic Inflammation and Aggravates Atherosclerosis 陳嘉蕙 徐松錕 許喬博 李宗玄 Chia-Hui Chen Song-Kun Shyue Chiao-Po Hsu Tzong-Shyuan Lee
PY018	Androgen receptor activation inhibits endothelial cell proliferation and angiogenesis through an extra-nuclear signaling pathway 霍彥年，葉劭德，周志銘，李文森 Yen-Nien Huo, Shauh-Der Yeh, Chih-Ming Chou, Wen-Sen Lee
PY019	Study the Roles of 3-Hydroxymethylglutaryl-CoA Synthase 2 Mediated Ketone body homeostasis in Liver Cancer 王垣睎 [1, 2, #] 涂玉青 [1] 廖宜真 [2,*] Yuan Hsi Wang [1, 2, #] Yuh Ching Twu [1] Yi Jen Liao [2, *]
PY020	Effect of KCNQ opener on myocardial ischemia reperfusion injury 劉沛勳、廖娟妙、林惠菁、黃相碩 Pei-Hsun Liu、Jiuan-Miaw Liao、Hui-Ching Lin、Shiang-Suo Huang
PY021	Exosomal microRNAs (exomiRs) involve in radiation-induced bystander effect 李安倫 [1], 鍾沛容 [1], 林書夷 [1], 馬念涵 [1*] An-Lun Li[1], Pei-Rong Zhong[1], Shu-Yi Lin[1], Nianhan Ma[1*]
PY022	To examine the antitumor effect of plant extracts against TMZ drug resistant GBM tumor cell line. 莊博雅 , 張凱復 , 陳祐淇 , 譚奕謙 , 蔡女滿 Po-Ya Chuang, Kai-Fu Chang,Yu-Chi Chen, Yi-Chien Tan, Nu-Man Tsai
PY023	miR-524-5p blocks the progression of BRAF inhibitor-resistance melanoma cells through MAPK/ERK and PI3K/AKT signaling pathways 阮氏梅香 [1], 蔡仁傑 [1], 林胤宇 [1], 馬念涵 [1*] Mai-Huong Thi Nguyen[1], Jen-Chieh Tsai[1], In-Yu Lin[1], Nianhan Ma[1*]
PY024	Neuromodulatory effect of exogenous melatonin on central post-stroke pain in rodents 徐百川 博士 Dr. Bai- Chuang Shyu
PY025	The Role of Autonomic Nervous System in Insomnia Subtypes 古珊 [1,2], 蔡欣融 [1,2,5], 郭博昭 [1-4], 楊靜修 [*1-4] Shan Ku[1,2], Hsin-Jung, Tsai[1,2,5], Terry B. J. Kuo[1-4], Cheryl C. H. Yang[*1-4]
PY026	Exploration of the Relationship between Health and Vegetarian, Pescatarian and Omnivorous Diets among Coastal Residents in Southern Taiwan 黃瀞瑤 HUANG, CHING - YAO
PY027	The impact of social defeat stressor and group housing on the intraperitoneal acetic acid administration-induced writhing responses. 黃郁涵，游一龍 Yu Han J. Huang, Lung Yu

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PY028	Lycogen™ Extract of Rhodobacter Sphaeroides Attenuates Prostate Gland Enlargement in Rats 翁子雋 [1], 汪雅雲 [2], 陳盈帆 [1], 洪明昌 [1], 林子詠 [1], 王強庭 [3], 劉文生 [1,4], 張嘉明 [5], 陳雅惠 [6,7,8], 陳琮明 [1*] Tzu-Chun Weng[1], Ya-Yun Wang[2], Ying-Fan Chen[1], Ming-Chang Hong[1], Tzu-Yung Lin[1], Chiang-Ting Wang[3], Wen-Sheng Liu[1,4], Chun-Ming Cheng[5], Ya-Huey Chen[6,7,8], Tsung-Ming Chen[1*]
PY029	To investigate the anti-tumor effect and mechanisms of PCo-1 and PCo-2 on melanoma cell 周恬而 , 黃曉凡 , 羅暐璇 , 陳冠潔 , 涂妙蓁 , 蔡女滿 Tien-Erh Chou, Xiao-Fan Huang , Wei-Syuan Lo , Kuan-Chieh Chen , Miao-Jhen Tu , Nu-Man Tsai
PY030	To research the Anti-cancer effects and Mechanisms of COM1 and COM2 on NSCLC and drug resistance NSCLC. 郭珈爹 , 黃雅芝 , 黃鈺雯 , 游曉沛 , 蔡女滿 Chia-Feng Kuo, Ya-Chih Huang, Yu-Wen Huang, Hsiao-Pei Yu, Nu-Man Tsai
PY031	Modeling Parkinson's disease in MPTP-treated echolocation bats 吳婉溱、王雪娥、徐代軒、吳忠信 Wen-Jhen Wu, Sheue-Er Wang, Tai-Hsuan Hsu, Chung-Hsin Wu
PY032	Aberrant protein phosphorylation of dopamine signaling molecules in mouse model of CDKL5 deficiency disorder 羅玉珠，廖文霖 Yu-ju Luo and Wen-lin Liao
PY033	Urothelial carcinoma-related miRNAs regulate bladder cancer cell functions 方培倫 [1], 林禎桓 [1], 李安倫 [1], 馬念涵 [1*] Pei-Luen Fang1[1] Chen-Huan Lin[1], An-Lun Li[1], Nianhan Ma[1*]
PY034	Short term hypoxia (STH) preconditioning enhances CHIP and IGF1R activation through down-regulation of miR-764-5p to promote survival of Adipose Derived Stem cells(rADSCs) 石埠 [1], 郭薇雯 [2], 黃志揚 [1,3,4] Shibu M.A.[1], Wei-Wan Kuo[2], Chih-yang Huang[1,3,4]
PY035	The role of glutamate projection from infralimbic prefrontal cortex to ventral tegmental area in extinction of methamphetamine conditioned place preference 張皓程 , 吳庭妤 , 黃淳 , 陳景宗 Hao-Cheng Chang,Ting-Yur Wu,Tsung Huang,Jin-Chung Chen
PY036	Enteral Glucose Protects Against Gut Ischemia-Induced Barrier Defects Through Remote Suppression of Intestinal Inflammation 楊欣、黃菁英 Yang Hsin, Ching-Ying Huang
PY037	ITPR2, an ER calcium channel, regulates ER stress and inflammatory response in pre-cancerous kidney tubule cells 黎怀北，阮陈孝辉， 徐 泗 Hoai Bac Le, Hieu-Huy Nguyen-Tran, Tien Hsu
PY038	5-HT7 Receptor Inhibition Enhances Therapeutic Effectiveness of Daily Acute Intermittent Hypoxia on Respiratory Function Following Chronic Mid-cervical Spinal Contusion 吳明臻 , 李昆澤 Ming-Jane Wu, Kun-Ze Lee
PY039	LPS and LTA Show the Opposite Effect on Bone Formation through the Regulation of Osteoblast Differentiation and Activation 吳盈羽 [1], 張毓翰 [1,2], 翁文能 [1,2,3], 陳美鳳 [1] Ying-Yu Wu[1], Yuhan Chang[1,2], Steve W. N. Ueng[1,2,3] and Mei-Feng Chen[1]
PY040	The time sequential injury in hippocampus and cerebral cortex after mild traumatic brain injury 何文孝 , 顏嘉宏 , 周思怡 Man-Hau Ho, Chia-Hung Yen, Szu-Yi Chou*
PY041	Identification of Regulatory Mechanism and Functional Roles of Long Noncoding RNA NONHSAT026182.2 in Breast Cancer Cells 鄭伊純，蔡孟勳，莊曜宇，賴亮全 Yi-Chun Cheng, Mong-Hsun Tsai, Eric Y. Chuang, Liang-Chuan Lai

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PY042	Synovial Fluid IL-16, IL-18, and CRELD2 as Biomarkers of Periprosthetic Joint Infections 李采燕 [1]，張毓翰 [1,2]，張智翔 [1,2,3,4]，楊嵐燕 [5]，謝邦鑫 [1,2]，施信農 [1,2]，翁文能 [1,2,3]，陳美鳳 [1*] Cai Yan Li[1], Yuhan Chang[1,2], Chih-Hsiang Chang[1,2,3,4], Lan-Yan Yang [5], Pang-Hsin Hsieh[1,2], Hsin-Nung Shih[1,2], Steve W. N. Ueng[1,2,3] and Mei-Feng Chen[1*]
PY043	The Blue Light Exposure Effect on Mouse Neuronal Behaviors 黃筑渝、何文孝、廖倫德、周思怡 Chu-Yu, Huang、Man-Hau, Ho、Lun-De, Liao、Szu-Yi, Chou
PY044	To Investigate The Role of The HP1-PEPCK Axis in The Progression of HDS-Induced Tumor 劉孟璇 , 張哲維 , 顏賢章 Meng-Syuan Liu, Che-Wei Chang, Shian-Jang Yan
PY045	To investigate the transcriptional regulation of HMGA1 via characterization of promoter and transcriptional factors involved in Human Lung Cancer Cells 蔡素雲，王啟仲 Su-Yun Tsai, Chi-Chung Wang

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PH001	Resveratrol Reduces ROS-induced THP-1 Adhesion through PKCα Pathway 王禹翔 , 陳莉蓁 , 蔡秉宣 , 陳芳玉 , 沈明毅 Yu-Hsiang Wang, Li-Zhen Chen, Ping-Hsuan Tsai, Fang-Yu Chen, Ming-Yi Shen
PH002	Investigate the integration process in the associative learning 李瑜軒 , 姜學誠 Yu-Hsuan Li, Hsueh Cheng Chiang
PH003	Studies on the molecular mechanisms of spermidine-induced synaptic potentiation at developing neuromuscular synapse 錢宥任 , 劉昭成 Yu-Jen Chien,Jau-Cheng Liou
PH004	Study of chemical composition of polysaccharides in Staurogyne concinnula and their biological functions 鄭靜枝、盧美光、郭曜豪 Jing-Jy Cheng, Mei-kuang Lu and Yao-Haur Kuo
PH005	To Determine Routes of Elimination of [14C]-Acetaminophen with Sprague Dawley Rat. 羅盛男 [1], 官孝勳 [1], 羅瑋霖 [1], 林婉琪 [1], 王世民 [1], 莊程惠 [1], 陳威希 [2], 張志賢 [1*] Sheng-Nan Lo[1], Hsiao-Hsun Shih[1], Wei-Lin Lo[1], Wan-Chi Lin[1], Shih-Min Wang[1], Cheng-Hui Chuang[1], Wei-Hsi Chen[2], Chih-Hsien Chang[1*]
PH006	Pre-Germinated Brown Rice Extract Prevents Metabolic Syndrome in C57BL/6 Mice 林慧麗 [1], 沈國屏 [2*] Hui-Li Lin[1], Kuo-Ping Shen[2*]
PH007	DNA-Directed RNA Polymerases Genetic Polymorphisms are Associated with Methadone Dose 劉玉麗、劉膧夏、孫世亞、方秋萍、郭湘維 Yu-Li Liu、Tung-Hsia Liu、Eric Sun、Chiu-Ping Fang、Hsiang-Wei Kuo
PH008	Loganin prevents neuropathic pain through the inhibition of NLRP3 inflammasome signaling pathway 陳心蘭 [1]、朱立雯 [2]、張毓秦 [1]、鄭玉琪 [1]、謝素玲 [3]、吳炳男 [1,*] Sin-Lan Chen[1], Li-Wen Chu[2], Yu-Chin Chang[1], Yu-Chi Cheng[1], Su-Ling Hsieh[3], Bin-Nan Wu[1,*]
PH009	Sandensolide Induces Oxidative Stress-Mediated Apoptosis in Oral Cancer Cells and in Zebrafish Xenograft Model 劉旺達，張博智，林吟品，林美瑩，李建興 Wangta Liu, Po-Chih Chang, In-Pin Lin, Mei-Ying Lin and Chien-Hsing Lee
PH010	Very low density lipoprotein from metabolic syndrome subject induced neuronal inflammation and cognitive dysfunction in mice 林盈劭 , 周美鵑 , 李香君 , 陳珠璜 , 陳秀蘭 Ying-Shao Lin, Mei-Chuan Chou, Hsiang-Chun Lee, Chu-Huang Chen, Shiou-Lan Chen

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PH011	Regulation of inflammtory homeostasis on endotoxin tolerance in microglial cells 黃濾鋌 [1], 陳晉文 [1], 沈靖凱 [1], 劉雨書 [2], 賴聲威 [3], 盧大宇 [2#] Sian-Ting Huang [1], Jin-Wun Chen[1], Shen Ching-Kai[1], Yu-Shu Liu [2], Sheng-Wei Lai [3], Dah-Yuu Lu [2#]
PH012	NaIO3-induced reactive oxygen species production is involved in protective autophagy in retinal pigment epithelial cells 陳志明、彭阿魯、黃誼庭、黃婷茵、林琬琬 Chi-Ming Chan, Ponarulselvam Sekar, Yi-Ting Huang, Duen-Yi Huang, Wan-Wan Lin
PH013	Mechanistic insights into the novel autophagic role of the well-known anti-apoptotic protein, Survivin, in human cancer cells 林子愉 , 詹琇涵 , 陳尚鴻 , Sailu Sarvagalla, 陳百昇 , Mohane Selvaraj Coumar, 張雋曦 Tzu-Yu Lin, Hsiu-Han, Chan, Shang-Hung Chen, Sailu Sarvagalla, Pai-Sheng Chen, Mohane Selvaraj Coumar, and Chun Hei Antonio Cheung
PH014	Interaction between Ca2+ signalling and cell-matrix adhesion during cancer cell migration 李迪， 妃琳，呂庭軒，蔡丰喬 Di-Li, Fei-Lin Chen, Ting-Xuan Lu, and Feng-Chiao Tsai
PH015	Silencing FBXO31 Reduces Apolipoprotein CIII-Rich Low-Density Lipoprotein-induced Endothelial Cell Senescence 陳莉蓁 , 蔡秉宣 , 陳芳玉 , 沈明毅 Li-Zhen Chen, Ping-Hsuan Tsai, Fang-Yu Chen, Ming-Yi Shen
PH016	AMPK-dependent and independent actions of P2X7 in regulation of mitochondrial and lysosomal functions in microglia Ponarulselvam Sekar, Duen-Yi Huang, Shie-Liang Hsieh, Shwu-Fen Chang and Wan-Wan Lin
PH017	CPAP promotes tumor angiogenesis and metastasis by interacting with and enhancing STAT3 activity in HCC 陳若瑜 , 顏家瑞 , 劉耀文 , 郭春國 , 翁婕渝 , 賴謙賢 , 林毅志 , 洪良宜 Ruo-Yu Chen, Chia-Jui Yen, Yao-Wen Liu, Chun-Guo Guo, Chieh-Yu Weng, Chien-Hsien Lai, Yih-Jyh Lin, and Liang-Yi Hung
PH018	4β -Hydroxywithanolide E inhibits TNF-α induced tissue factor and procoagulant activity in human non–small cell lung cancer H1299 cells 林雅函 , 謝侃言 , 張芳榮 , 吳志中 Ya-Han Lin, Kan-Yen Hsieh, Fang-Rong Chang, Chin-Chung Wu
PH019	Endoplasmic Reticulum Protein TXNDC5 Promotes Pulmonary Fibrosis by Augmenting TGFbeta Signaling via TGFbeta Receptor 1 Stabilization 李姿涵 [1], 李尹彤 [1], 呂立 [2], 曹伯年 [2], 方匀 [3], 楊鎧鍵 [1,4*] Tzu-Han Lee[1], Ying-Tung Lee[1], Frank-Leigh Lu[2], Po-Nien Tsao[2], Yun Fang[3], Kai-Chien Yang[1,4*]
PH020	Endoplasmic Reticulum Protein TXNDC5 Contributes Critically to Renal Fibrogenesis in Chronic Kidney Diseases 陳彥廷 , 林水龍 , 楊鎧鍵 Yen-Ting Chen, Shuei-Liong Lin, Kai-Chien Yang
PH021	Orexin-mediated restoration of hippocampal synaptic potentiation in mice with established cocaine-conditioned place preference 盧冠伶 [1], 李鳴達 [1,2,3], 邱麗珠 [1,2,4*] Guan-Ling Lu[1], Ming-Tatt Lee[1,2,3], Lih-Chu Chiou[1,2,4*]
PH022	Comparing the Protection of diallyl disulfide, diallyl trisulfide and S-allylcysteine on Der p-induced allergic inflammations in A 549 cells 謝予惠，劉沛均，宋依玲，林巧婷，李丞淋，蔡仁傑 Yu-Hui,Hsieh, Pei-Jun, Liu, Yi-Ling, Sung, , Chao Ting Lin, Cheng-Lin Li, Jen-Chieh Tsai
PH023	The importance of Calcium signaling in HBx-induced events 馮圓媛 , 林鈺喬 , 蔡沛儒 , 蔡丰喬 Yuan-Yuan Feng, Yu-Chiao Lin, Pei-Ju Tsai, Feng-Chiao Tsai
PH024	Blimp-1 induced by growth factors, TNF-α and LPS inhibits keratinocyte migration and inflammation but enhances cell migration in squamous cell carcinoma 李惠珉 , 張華景 , 任婉瑜 , 林琬琬 Hyemin Lee, Hua-Ching Chang, Wan-Yu Ren, Wan-Wan Lin

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PH025	Loganin attenuates neuropathic pain by activating autophagy in a rat model of chronic constriction injury Yu-Min Chiu[1], Hoang Nguyen Phuong Thao[1], Yu-Chin Chang[1], Yu-Chi Cheng[1], Su-Ling Hsieh[2], Bin-Nan Wu[1,*]
PH026	The Effect of Hemin on Glioma Growth 黃驏寬 , 林家禾 Yuan-Kuan Huang, Chia-Ho Lin
PH027	Molecular mechanisms of statins on oral squamous cell carcinoma growth inhibition: the role of DNA methyltransferases and epigenetic regulation of tumor suppressor genes 林琮荏 , 袁大鈞 , 劉晉宏 Rachmad Anres Dongoran, Tsung-Jen Lin, Ta-Chun Yuan, Chin-Hung Liu
PH028	Melatonin inhibits Osteolytic bone metastasis through interrupting cancer cells-derived osteolytic factor and reduce osteoclast Differentiation 賴俊霖 , 張安辰 , 陳柏均 , 湯智昕 Jyun-Lin Lai , An-Chen Chang, Po-Chun Chen, Chih-Hsin Tang
PH029	Antiallodynic Effect of Betaine and Its InteractionwithKetamine in a Mouse Model of Chronic Post-Ischemia Pain 郭珮辰、黃婕敏、陳慧誠 Pei-Chen Kuo, Chien-Min Huang, Hwei-Hsien Chen
PH030	Selective Blockade of HDAC8 by BMX Attenuates Laser-Induced Choroidal Neovascularization Model in Mice 林凡立 [1, 2]，康照洲 [1]，顏敬倫 [2]，何昭德 [3]，黃中洋 [4]，鄭幼文 [5, *]，蕭哲志 [2, *] Fan-Li Lin[1, 2], Jaw-Jou Kang[1], Jing-Lun Yen[2], Jau-Der Ho[3], Chung-Yang Huang[4], Yu-Wen Cheng[5,*], George Hsiao[2, *]
PH031	The mechanisms of platelet hyporeactivity caused by sepsis in rats 李松橋 , 廖美惠 , 吳錦楨 , 施志勤 Song-qiao Li, Mei-Hui Liao, Chin-Chen Wu, Chih-chin Shih
PH032	Epigenetic Regulation of Stress-provoked Aggressive Behaviors in Post-weaning Social Isolation Mice 郭奕妓，張智華，簡伯武 * Elizabeth Kuek, Chih-Hua Chang and Po-Wu Gean*
PH033	Cardiotoxicity of diterpene alkaloid derivatives in vitro and in vivo studies Widya Yanti Sihotang [1], 李姒蓉 [1], 黃上恩 [2], 徐仲豪 [3], 葉竹來 [1,2*] Widya Yanti Sihotang [1], Szu-Jung Lee [1], Shang-En Huang[2], Jong-Hau Hsu[3], Jwu-Lai Yeh[1,2*]
PH034	Endoplasmic Reticulum Protein Thioredoxin Domain Containing 5 (TXNDC5) Is a Novel Mediator of Endothelial Dysfunction and Atherosclerosis 鄭世昕 [(1)], 葉志凡 [(1,3)], 方匀 [(2)], 楊鎧鍵 [(1,3)*] Shih-Hsin Cheng [(1)], Chih-Fan Yeh[(1,3)], Yun Fang [(2)], Kai-Chien Yang [(1,3)*]
PH035	To investigate the injured mechanism of type-I pneumocyte by Lipopolysaccharides (LPS) in the cell model of acute lung injury 白佩雯 , 陳威臺 , 林泰元 Pei-Wen Pai, Wei-Tai Chen, Thai-Yen Ling
PH036	Molecular Actions of 1,2,3,4,6-Penta-O-Galloyl-beta-D-Glucose on Adipocyte Life Cycle and High Fat Diet Induced Obese Mice. 阿旭許 , 盧重光 , 廖志中 , 黃偉展 , 劉慧康 Ashish Rao S, Chung-Kuang Lu, Chih-Chuang Liaw, Wei-Jan Huang, Hui-Kang Liu
PH037	CCAAT/Enhancer Binding Protein Delta Mediates PDGF-A Expression and Glioma Stem-Like Cell Formation upon Inflammatory Stimulation 林宏益 [1]，王紹銘 [2]，陳燕麟 [3]，柯瓊媛 [1*] Hong-Yi Lin[1], Shao-Ming Wang[2] , Yen-Lin Chen[3], Chiung-Yuan Ko[1*]

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AN001	Effects of Morin on Expression of the Rat Astrocytic Gap Junction Protein Connexin 43 in Oxygen Glucose Deprivation Injury 劉芳妤，鍾敦輝 Fang-Yu Liu, Tun-Hui Chung
AN002	Indoxyl Sulphate Regulates NFATc1/C-Fos Signaling through Aryl Hydrocarbon Receptor to Effect Osteoclasts Proliferation and Differentiation. 劉文治 , 嚴靜芬 , 徐佳福 Wen-Chih Liu, Jen-Fen Yen, Jia-Fwu Shyu
AN003	The Cytotoxic Effect of bisphenol A in Human Gastric Cancer Cells 郭純琦 Chun-Chi Kuo
AN004	The Cytotoxic Effect of Melamine in Human Prostate Cancer Cells 郭純琦 Chun-Chi Kuo
AN005	Monitor Inflammatory Responses in Elastase-Induced the Tendinopathy progress 吳宜庭 , 吳佳慶 Yi-Ting Wu, Chia-Ching Wu
AN006	Melatonin Accelerates Cytoskeletal Rearrangements in Nerve Sprouting Following Peripheral Neurorrhaphy. 郭昱辰，許朝鈞，王晢宇，楊尹碩，林昱達 ，廖智凱，藍琴臺，劉烱輝， 廖玟潔 * Yu-Chen Kuo, Chao-Chun Hsu, Che-Yu Wang, Yin Shuo Yang, Yu-Ta Lin Chih-Kai Liao, Chyn-Tair Lan, Chiung-Hui Liu, Wen-Chieh Liao*
AN007	Indoxyl sulfate suppressed Myocardial connexin43 transcription and phosphorylation via JNK activation 張簡芝穎 , 宋孟河 , 張欣翰 , 蔡文銓 , 彭渝森 , 陳瀅 Chih-Ying Changchien, Meng-Ho Sung, Hsin-Han Chang, Wen-Chiuan Tsai, Yu-Sen Peng, Ying Chen
AN008	Reversal of Bleomycin-induced Rat Pulmonary Fibrosis by a Xenograft of Human Umbilical Mesenchymal Stem Cells From Wharton's Jelly 郭馥嫻 [1], 王詩瑤 [1], 朱國安 [2], 傅毓秀 [1*] Fu-Hsien Kuo[1], Shih-Yao Wang[1], Kuo-An Chu[2], Yu-Show Fu[1*]
AN009	Study The Role of Glucocorticoids in The Development of Diet-Induced Fatty Liver 張富全 [1], 郭余民 [1] Fu-Chuan Chang[1], Yu-Min Kuo[1*]
AN010	Xenograft of Human Umbilical Mesenchymal Stem Cells from Wharton's Jelly Reverses Osteoporosis in Ovariectomized Rats 童振傑 , 呂佳慧 , 陳正豐 , 傅毓秀 Zhen-Jie Tong, Chia-Hui Lu, Cheng-Fong Chen, Yu-Show Fu
AN011	Comparison of Human Wharton's Jelly Mesenchymal Stem Cells Cultured in Different Oxygen Concentration Environment 鄭詠元 , 蕭鎮源 , 徐佳福 , 陳天華 , 蔡佩君 Yung-Yuan Cheng, Chen-Yuan Hsiao, Jia-Fwu Shyu, Tien-Hua Chen, Pei-Jiun Tsai
AN012	The study of self-learning online test of human skeleton on students' learning outcomes 何宛怡，張昭元，陳永佳 Wan-Yi Ho, Chao-Yuah Chang，Yung-Chia Chen
AN013	Xerografting of Human Umbilical Mesenchymal Stem Cells from Wharton's Jelly Ameliorates Mouse Spinocerebellar Ataxia type [1] 陳鈺蕙 , 黃婉禎 , 宋秉文 , 傅毓秀 Yu-Hui Chen, Wan-Jhen Huang, Bing-Wen Soong, Yu-Show Fu
AN014	Wnt10b Expression in Osteoporosis Treated with Calcitonin 李以琳 , 何林佳 , 朱慈暉 , 林怡君 , 陳柏翰 , 蕭鎮源 , 徐佳福 Yi-Lin Lee[1], Lin-Chia Ho[1], Tzu-Hui Chu[2], Yi-Jun Lin[2], Bo-Han Chen[2], Cheng-Yuan Hsiao[3], Jia-Fwu Shyu[2*]

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AN015	Protective and repairable effects of fucoxanthin on neurotrophic keratitis in the eye 李景如 , 陳旭照 , 曾廣文 Ching-Ju Lee[1], Shiu-Jau Chen[2], and Kuang-Wen Tseng*[3]
AN016	Transplantation of Human Umbilical Mesenchymal Stem Cells from Wharton's Jelly Prevents Peritoneal Dialysis-Induced Fibrosis in rats 陳柏儒 , 范毓珮 , 傅毓秀 Po-Ru Chen, Yu-Pei Fan, Yu-Show Fu

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BC001	Knockout Phosphatidylserine receptor (PSR) turn on alternative cell engulfing pathway 白世中 , 唐琬倫 , 洪健睿 Shih-Chung Pai, Wan-Lun Taung, Jiann-Ruey Hong
BC002	Antioxidative graphene oxide nanoribbons as novel whiting agents inhibit MITF related melanogenesis 周鑫佑、孫嘉良、郭嘉亨、呂佩璇、張建中、康文藝、王惠民 Hsin-Yu Chou, Chia-Liang Sun*, Chia-Heng Kuo, Pei-Hsuan Lu, Cheng-Chung Chang, Wenyi Kang, Hui-Min David Wang
BC003	B1 as an autophagy inhibitor effect on RGNNV replication and host AMPK autophagy signaling pathway. 邱宥維，洪健睿 Yu-Wei Chiu, Jiann-Ruey Hong
BC004	Antibacterial Efficacy Of Cationic Antimicrobial Peptide Q4-15a-1 Against Multidrug-Resistant Enterotoxigenic Escherichia coli 吳康琪，陳威戎 Kang-Chi Wu and Wei-Jung Chen
BC005	In vitro and in vivo Antibacterial Efficacy against Vibrio parahaemolyticus by Cationic Antimicrobial Peptide 余晏婷 , 莊智傑 , 陳威戎 * Yen-Ting Yu, Zhi-Jie Zhuang, Wei-Jung Chen*
BC006	HLA-DQ Genotype and Biochemical Characteristics of Anti-transglutaminase 2 (TGM2) antibodies in patients with Type 1 diabetes mellitus in Taiwan. 賴宗聖，楊逸文，謝宇庭，李燕晉 Thung S Lai, Yi-Wen Yang, Yu-Ting Hsieh, and Yann-Jinn Lee
BC007	Mesenchymal Stem Cells-derived Microenvironment Promote Lung Cancer Cell Progression via c-Fos S374 Phosphorylation in MAPK Signaling Pathway 王嘉琪 [1] , 張怡雯 [2] , 吳長勳 [2] , 張海妍 [2] , 李佳霖 [3] , 黃宣誠 [4] , 阮雪芬 [1,2*] Chia-Chi Wang[1] , Yi-Wen Chang[2] , Chang-Hsun Wu[2] , Chantal Hoi Yin Cheung[2] , Jia-Lin Lee[3] , Hsuan-Cheng Huang[4] , Hsueh-Fen Juan[1,2*]
BC008	Functional Regulation of DAPK1 Serine 308 Phosphorylation in vivo. 陳似玟 , 林子暘 , 查岱龍 Szu-Wen Chen, Tzu-Yang Lin, Tai-Lung Cha
BC009	Therapeutic efficacy of bioactive peptides on hypertension-induced oxidative stress and apoptosis in spontaneous hypertension rat kidneys 蔡季鋼 [1], Shanmgam Tamilselvi[2], 林万登 [3], 郭薇雯 [4], 黃志揚 [1,2,5,6] Bruce Chi-Kang Tsai[1], Shanmgam Tamilselvi[2], Wan-Teng Lin[3], Wei-Wen Kuo[4], Chih-Yang Huang[1,2,5,6]
BC010	Study on the Effects of S-equol on Osteoarthritis. 黃立嘉 [1], 黃姿菁 [2], 胡祐甄 [2], 謝寶萱 [2], 陳凱吟 [1], 邱溥容 [2], 張基隆 [1,2*] Li-Jia Huang [1], Tzu-Ching Huang 2, Yu-Chen Hu [2], Bau-Shan Hsieh [2], Kai-Yin Chen [1], Pu-Rong Chiu [2], Kee-Lung Chang [1,2*]

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BC011	Oxazolone Induces Oxidative Stress in THP-1 cells 陳凱吟[1], 謝寶萱[2], 黃姿菁[2], 胡祐甄[2], 黃立嘉[1], 邱溥容[2*], 張基隆[1,2*] Kai-Yin Chen[1], Bau-Shan Hsieh[2], Tzu-Ching Huang[2], Yu-Chen Hu[2], Li-Jia Huang[2], Pu-Rong Chiu[2*], Kee-Lung Chang[1,2*]
BC012	Transcriptional regulation of the yeast TGL3-encoded triacylglycerol lipase 盧頡、蘇玟珉、葉柏宏
BC013	Evaluation of the potential role of tumor suppressor gene ZAC1/PLAGL1 in promoting tumor metastasis 黃世明、邱奕霖、喬立綱 Shih-Ming Huang、Yi-Lin Chiu、Li-Kang Chiao
BC014	Investigating the Biochemical Characteristics of Nucleostemin and Its Functional Role in Replication Stress Response 張逸軒, 林柏廷, 許森惠, Robert Y. L. Tsai, 廖泓鈞, 冀宏源 Yi-Hsuan Chang, Bo-Ting Lin, Sen-Huei Hsu, Robert Y. L. Tsai, Hungjiun Liaw, and Peter Chi
BC015	Studying the cross-talk between Microcephaly and DNA damage repair 張皓衍, 李佳怡, 冀宏源 Hao-Yen Chang, Chia-Yi Lee, Peter (Hung Yuan) Chi
BC016	Autophagic Degradation of HuR Elicits Downregulation of Survivin and MCL1 in YM-155-treated Human Leukemia K562 Cells 邱靖婷, 張榮賢 Jing-Ting Chiou, Long-Sen Chang
BC017	The Single Nucleotide Polymorphisms (SNP) and Single-Nucleotide Variations (SNVs) Mutants of Human Mitochondrial NAD(P) -Dependent Malic Enzyme. 黃亭臻[1*]，謝如怡[1]，洪慧芝[1,2,3] Ting-Jhen Huang[1*]，Ju-Yi Hsieh[1]，Hui-Chih Hung[1,2,3]
BC018	Key Elements Determining the Different Degradation Pathway between Human Ornithine Decarboxylase and Antizyme Inhibitor. 楊宜鈁, 謝如怡, 劉光耀, 洪慧芝 Yi-Fang Yang, Ju-Yi Hsieh, Guang-Yaw Liu, Hui-Chih Hung
BC019	Kinetic characteristics of SNPs and SNVs in mitochondrial NAD(P)+-dependent malic enzyme (ME2) 周傳蓉，謝如怡，洪慧芝 Chuan-Jung Chou, Ju-Yi Hsieh, Hui-Chih Hung
BC020	Mechanisms of glucagon-like peptide-1(GLP-1) signaling protect against lipid accumulation of retinal pigment epithelial (RPE) cells in diabetic retinopathy 白宜巧, 黃建寧, 李欣樺, 何筱莉, 郭千尹, 林志立 Yi-Chiao Bai, Chien-Ning Huang, Hsin-Hua Li, Hsiao-Li Ho, Chien-Yin Kuo, Chih-Li Lin
BC021	Role of PRMT3 in colorectal cancer cell invasion and progression 林苡勤, 李明學 Yi-Chin Lin, Ming-Shyue Lee
BC022	Transforming growth factor beta induces nuclear dysmorphia through AKT signaling pathway 張崧年[1], 陳鴻震[*2] Sung-Nian Chang[1], Hong-Chen Chen[*2]
BC023	Functional analysis of spliceosome disassembly 蘇昱倫, 鄭淑珍 Yu-Lun Su, Soo-Chen Cheng
BC024	Darapladib, a Lipoprotein-Associated Phospholipase A2 Inhibitor, as a Potential Anti-glioma Compound 王韻茹[1], 曾淑芬[1*] Yun-Ju Wang[1], Shun-Fen Tzeng[1*]
BC025	Investigate the Role of Human Mitochondrial NAD(P)+ - Dependent Malic Enzyme Involving in the Metabolism Reprogramming of Lung Cancer Cells 楊皓評[(1,2)], 鄭惠甄[(1)], 劉光耀[(5)], 洪慧芝[(2,3,4)] Hao-Ping Yang[(1,2)], Hui-Chen Cheng[(1)], Guang-Yaw Liu[(5)], Hui-Chih Hung[(2,3,4)]

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BC026	Astragalus polysaccharide, Mangifera indica ethanol extract and resveratrol induced GPR56 mRNA expression in K562 and HepG2 cells 林奕妘，李千雅，施雅文，石兆恩，張雲祥，李泰林 Yi-Yun Lin, Chien-Ya Li, Ya-Wen Shih, Chao-En Shih, Yun-Shiang Chang, Tai-Lin Lee
BC027	Development of TaqMan Probe-Based Real-time PCR for the Identification of Pepper Veinal Mottle Virus 關政平 *、蔡沄容、楊佐琦 Cheng-Ping Kuan* Yun-Jung Tsai, Tso-Chi Yang
BC028	Antioxidative Activity and Inhibition of a Key Enzyme Linked to Type-2 Diabetes (α -Glucosidase) by Pomelo Peel Extracts 蔡文琦 *, 黃韻慧 Wen-Chi Tsai*, Yunn-Hui Wong
BC029	Molecular Detection and Differentiation of Three Tobamoviruses Based on Genomic Amplification 關政平 *、蔡沄容、楊佐琦 Cheng-Ping Kuan*, Yun-Jung Tsai, Tso-Chi Yang
BC030	Detection of Viral Genomes for Three Banana Viruses Using Hybridization Probes 關政平 *、黃勝豐、蔡沄容、楊佐琦 Cheng-Ping Kuan*, San-Fong Huang, Yun-Jung Tsai, Tso-Chi Yang
BC031	BioFibroScore®: a new non-invasive method for diagnosing hepatic fibrosis in NAFLD and NASH 魏裕中 , 林秀萍 , 許珮綺 , 黃冠華 , 鄭文琦 Yu-Chung Wei, Lin Hsiu-Ping, Shiu Pei Chi, Guan-Hua Huang, Wen-Chi Cheng
BC032	Targeting Pseudomonas aeruginosa with Antibodies to Enhance Immune Clearance and Inhibit Invasion 陳奕璋 , 吳彥宥 , 蔡宜珊 , 駱育壎 Yi-Jang Chen, Yen-Yu Wu, Yi-san Tsai, Yu-Hsun Lo
BC033	Lion's Mane Medicinal Mushroom, Hericium erinaceus (Agaricomycetes), attenuates oxaliplatin -induced neuropathic pain 黃依如 [1], 闕小輝 [2], 陳勁初 [3], 李麗雅 [3], 陳婉屏 [3], 黃澤慧 [1], 劉佩珊 [1]* Yiru Huang[1], Sheau-Huei Chueh[2], Chin-Chu Chen[3], Li-Ya Lee[3], Wan-Ping Chen[3], Zehui Huang[1], Pei-Shan Liu[1]
BC034	The effect of dietary inclusion of Cinnamomum cassis as growth promoter in broiler chickens. 莊旻軒 莊玉鳳 游志文 黃怡雯 洪淑嫻 Yu-Feng Chuang, Min-Hsuan Chuang , Yi-Wen Huang, Shu-Hsien Hung, Chih-Wen Yu
BC035	Functional prediction of microbial community in sediment microbial fuel cells by PICRUSt 溫威豪 [1]，陳宛渝 [1]，邱慶媛 [1]，郭傑民 [2,3]，柳源德 [1]，林重宏 [1] WeiHao Wen[1],Wanyu Chen[1],QingYuan Qiu1,Jimmy Kuo[2,3],Daniel Liu[1],ChorngHorng Lin[1]
BC036	Characteristic and Potency Analysis of Chimeric Antigen Receptor (CAR)-T Cells 冷霈如、蘇宥樺、盧信霖、紀威光 Pei-Ju Leng, Yu-Hua Su, Hsin-Lin Lu, Wei-Kuang Chi
BC037	Engineering of Protein Expression by Using Escherichia coli and Pichia pastoris 張能賢 [1], 周昱昌 [1], 范主熙 [1], 張荏韋 [1], 鄭偉宏 [1], 闕銘宏 [1], 紀威光 *[1] Neng-Hsien Chang[1], Yue-Chang Chou[1], Chih-Hsi Fan[1], Jen-Wei Chang[1], Wei-Hong Cheng[1], Ming-Hong Cyue[1], Wei-Kuang Chi *[1]
BC038	High Level scFv Expression Platform of Pichia pastoris 張荏韋 , 陳道田 , 范主熙 , 鄭偉宏 , 闕銘宏 , 張能賢 , 紀威光 Jen-Wei Chang, Dalton Chen, Chih-Hsi Fan, Wei-Hong Cheng, Ming-Hong Cyue, Neng-Hsien Chang, Wei-Kuang Chi
BC039	Relationship between antibiotic resistance and biofilm formation in clinical Pseudomonas aeruginosa strains 周彥廷、楊正宏、莊麗月 Yang-Ting Zhou[1], Cheng Hong Yang[2], Li-Yeh Chuang *[1]
BC040	Application of Neo4j in bioinformatics - using human phenotype ontology as an example 陳震 , 楊永正 Zhen Chen, Ueng-Cheng Yang

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BC041	Analysis of Bactericidal Effect of Hydrogen Peroxide Eluent Combined with Essential Oil on Enterococcus faecalis 廖恩佑 , 郭睿群 , 林宥任 , 林育漩 , 黃素華 * En-You Liao , Jui-Chun Kuo , You-Ren Lin , Yu-Shiuan Lin , Su-Hua Huang*
BC042	Immuno-PCR for Rapid Detection of Enterococcus faecalis and Discussion on the Best Bactericidal Effect of Hypochlorous Acid Water. 趙敏涵 , 李婕伶 , 詹妤文 , 黃素華 * Min-Han Zhao , Jie-Ling Li , Yu-Wen Chan , Su-Hua Huang*
BC043	Inhibition of Clostridium difficile Spore and Bacterial Survival by Novel Nanoparticles 葉治 , 黃志嘉 , 蔡佩珍 Ye Zhi , Chih-Chia Huang, Pei-Jane Tsai
BC044	Effects of Dual-Specific Phosphatase 6 Deficiency with Specific Probiotics on Human Intestinal Epithelial Cells 康庭瑋 [1], 高承源 [2,*] 阮振維 [1] Ting-Wei Kang[1], Cheng-Yuan Kao[2,*] *Jhen-Wei Ruan[1]
BC045	Molecular epidemiological study on high-resistance Salmonella from June to July 2018 in Linkou Chang Gung Memorial Hospital 何雅心 , 鄒奕萱 , 楊欣萍 , 蘇玲慧 , 劉淑瑛 , 邱政洵 Ya-Shin He, Yi-Hsuan Tsou, Shin-Ping Yang, Lin-Hui Su, Shu-Ying Liu, Cheng-Hsun Chiu

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海報編號	論文題目
IM001	IL-37 Increases Inflammation in Con A Induced Hepatitis by Increasing NK Cells 林佳儀，莊雅惠 Chia-I Lin, Ya-Hui Chuang
IM003	ATF3 regulates IL-17A expression through the phosphorylation of STAT3 王昕怡，呂學翰，蕭湘蓉 Hsin-Yi Wang, Hsueh-Han Lu, Hsiang-Jung Hsiao
IM005	Galectin-4 induces multicellularity in bacteria and increases bacterial adhesion to intestines 李奇珊 , 屠庭瑞 , 劉扶東 Chi-Shan Li, Ting-Jui Tu, Fu-Tong Liu
IM007	Iloprost-modulated dendritic cells promote antigen-specific adaptive regulatory T cell differentiation in a mouse model of asthma 翁子軒、高榮駿、陳俞方、Pooja Sharma、孫昭玲 Tzu-Hsuan Wong, Rong-Giung Kao, Yu-Fang Chen, Pooja Sharma, Jau-Ling Suen
IM009	Decoy Receptor 3 Suppressed TLR4 and Thymus-Dependent Stimuli-Induced Humoral Immune Response 劉柏均 , 黃思穎 , 呂春敏 Po-Chun Liu, Szu-Ying Huang and Chuen-Miin Leu
IM011	Glycan masking hemagglutinin antigens from stable CHO cell clones for H5N1 avian influenza vaccine development 陳廷軒 , 劉玟君 , 林佳瑩 , 劉家齊 , 詹家琮 , Maureen Spearman, Michael Butler, 吳夙欽 Ting Hsuan Chen, Wen Chun Liu, Chia Ying Lin, Chia Chyi Liu, Jia Tsrong Jan, Maureen Spearman, Michael Butler, Suh Chin Wu
IM013	MicroRNA-122 Regulates Chemokine Production in Human Hepatocellular Carcinoma Cells 劉芷綺 , 鄭國祥 , 林玥玲 , 周彤 , 張瓊芳 , 呂春敏 Jr-Chi Liu, Kuo-Shyang Jeng, Yueh-Ling Lin, Tung Chou, Chiung-Fang Chang, Chuen-Miin Leu
IM015	CLEC18 play a role in influenza virus infection 黃雅蘭，謝世良 Ya-Lang Huang, and Shie-Liang Hsieh

海報編號	論文題目
IM017	The molecular mechanism of regulating ZNRF1 activity in TLR4 signaling 許哲恩 , 周志璋 , 賴亭諭 , 徐立中 Jer-En Hsu, Chih-Chang Chou, Ting-Yu Lai, Li-Chung Hsu
IM019	Neuroprotective Effects of Basswood Culture Antrodia camphorata Alcohol Extracts on Middle Cerebral Artery Occlusion Induced Focal Cerebral Ischemic Stroke in Rat Model 何佳玲 , 許亞婷 , 蔡東瀚 , 龔瑞林 Jia-Ling He, Ya-Ting Hsu, Tung-Han Tsai, Zwe-Ling Kong
IM021	Downregulation of Cytokines-Mediated Transcriptional Collagenase and Suppresses Cartilage Degradation by Dietary Polysaccharide from Euchuema cottonii on Osteoarthritis with Obesity Rats Model Heng-Wei Chang, Chun-Kai Chen, Zwe-Ling Kong
IM023	Radiation improved IL-21 cancer immunotherapy 李逸容 , 吳嘉仁 , 吳品逸 , 陶秘華
IM025	Eradication of large establish tumor by local combinatorial immunotherapy through tumor-associated neutrophils with antigen-presenting phenotype 吳嘉仁 , 蔡宜婷 , 張景程 , 李逸容 , 吳品逸 , 陶秘華 Chia-Jen Wu, Yi-Ting Tsai, Ching-Cheng Chang, I-Jung Lee, Ping-Yi Wu, Mi-Hua Tao
IM027	Mechanistic Study of CASK-dependent activation of H5N1-induced cytokine storm 黃菁盈 , 于耀安 , 謝世良 Jing-Ying Huang, Yao-An Yu, Shie-Liang Hsieh
IM029	Pulmonary IL-33 Orchestrates Innate Immune Cells to Mediate RSV-evoked Airway Hyperreactivity and Eosinophilia 吳逸修，賴傳穎，紀柏宇，張麗萍，蔡靜慧，陳威宇，李永凌，Nicholas W. Lukacs，張雅貞 Yi-Hsiu Wu, Alan Chuan-Ying Lai, Po-Yu Chi, Christina Li-Ping Thio , Ching-Hui Tsai, Wei-Yu Chen, Yungling Leo Lee, Nicholas W. Lukacs and Ya-Jen Chang
IM031	Reciprocal regulation between Blimp-1 and IL-21 in autoimmune diseases 劉鈺文 , 傅馨慧 , 許詔淵 , 簡明偉 , 司徒惠康 Yu-Wen Liu, Shin-Huei Fu, Chao-Yuan Hsu, Ming-Wei Chien, Huey-Kang Sytwu
IM033	Trulicity Impairs the Development of Tissue-Resident Th1/Th17 Cells and the Pathogenicity of Encephalitogenic Th1 Cells Both in the CNS Lesions of Autoimmune Encephalomyelitis 邱馨瑩、喬祥、陳怡臻、林庭意、蕭璧容、林明宏 Hsin-Ying Chiou, Shiang Chiao, Yi-Chen Chen, Ting-Yi Lin, Pi-Jung Hsiao, Ming-Hong Lin
IM035	The role of TREM-2 in regulating MSU-mediated NLRP3 inflammasome activation 蔡瑩潔，陳念榮 Ying-Chieh Tsai, Nien-Jung Chen
IM037	The Reciprocal Regulation between c-Maf and Blimp-1 in IL-27-dependent IL-10 Expression and Its Impact on Experimental Colitis 傅馨慧 , 許詔淵 , 司徒惠康 Shin-Huei Fu, Chao-Yuan Hsu, Huey-Kang Sytwu
IM039	Regulation of Oxidative Stress for LAPosome Induction during Group A Streptococcal Infection in Endothelial Cells 鄭怡琳 , 吳俊忠 , 林以行 Yi-Lin Cheng, Jiunn-Jong Wu, Yee-Shin Lin
IM041	Polypeptide Antibiotic Actinomycin D Induces Anti-apoptotic Mcl-1 Downregulation, G2/M Cell Cycle Arrest, and Cell Death 趙彥博 , 沈庭靚 , 陳嘉玲 , 林秋烽 Yen-Po Chao, Ting-Jing Shen, Chia-Ling Chen, and Chiou-Feng Lin
IM043	The role of gut microbiota in the initiation of primary biliary cholangitis 王禹文 , 莊雅惠 Yu-Wen Wang, Ya-Hui Chuang
IM045	Anti-PEG antibodies can alter the biological activity of pegylated epoetin beta 張恬菁 , 陳炳梅 , 林文瑋 , 黃道揚 , 鄔哲源 , 鄭添祿 , 羅傅倫 Tien-Ching Chang, Bing-Mae Chen, Wen-Wei Lin, Daw-Yang Hwang, Jer-Yuan Wu, Tian-Lu Cheng, Steve Roffler

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IM047	Research the expression of PCBP1 and epithelial-mesenchymal-transition-related protein in P. gingivalis metabolites-treated pancreatic cancer BxPC-3 cells by western blot 賴俊霖 , 詹明修 Caucasus Jun-Lin Lai, Ming-Shiou Jan
IM049	Instead of natural killer cells, anti-Asialo GM1 antibody depletes an CD44 and LFA-1 positive liver resident CD8 T cell population and impairs immune response to hepatitis B viral clearance 宋奇璋、蕭世鴻和許秉寧 Chi-Chang Sung, Shih-Hong Siao and Ping-Ning Hsu
IM051	Novel insights into Influenza A virus nonstructural protein 1-mediated immune evasion 張宏全，施孟岑，凌斌 Hung-Chuan Chang, Meng-Cen Shih, Pin Ling
IM053	The Role of Versican-Regulated Rab37 in TNF-α Secretion from Lung Cancer-Associated Macrophages 蕭玉朋 , 張志鵬 Yu-Peng Hsiao, Chih-Peng Chang
IM055	Identify small molecules that regulate the expression of Equilibrative Nucleoside Transporters (ENTs) 蔡承翰，徐嘉琳 Tsai Cheng-Han, Hsu Chia-lin
IM057	MCT-1/miR-34a/IL-6/IL-6R signaling modulates EMT progression cancer stemness and macrophage polarization in triple-negative breast cancer 曾鴻裕 , 翁悅珊 , 陳彥安 , 沈佩君 , 歐書亞 , 陳麗美 , 徐欣伶 Hong-Yu Tseng, Yueh-Shan Weng, Yen-An Chen, Pei-Chun Shen, Aushia Tanzih Al Haq, Li-Mei Chen, and Hsin-Ling Hsu
IM059	The Roles of PARP-1 in UV-B-Induced Inflammasome Activation and Skin Damage 邱鈴雅 , 吳南霖 , 洪啟峯 , 林琬琬 Ling-Ya Chiu, Nan-Lin Wu, Chi-Feng Hung, Wan-Wan Lin
IM061	ENT3 regulates T cell homeostasis by coordinating lysosomal function with nucleoside availability 魏晉文 , 李佳螢 , 李定瑾 , 朱長風 , 王如初 , 王恬喬 , 簡萬能 , 張智芬 , 呂春敏 , 葛一樊 , 徐嘉琳 Chin-Wen Wei, Chia-Ying Lee, Ding-Jin Lee, Chang-Feng Chu, Ju-Chu Wang, Tien-Chiao Wang, Wann-Neng Jane, Zee-Fen Chang, Chuen-Miin Leu, Ivan L. Dzhagalov, Chia-Lin Hsu
IM063	Glycoprotein from Mytilus edulis water extract reduces the body weight and modulates inflammatory response on surgical-induced osteoarthritis with high-fat diet-induced obese rats model 李嘉恩 , 蘇迪曼 , 毛乾豐 , 張恆偉 , 王杰鴻 , 龔瑞林 * Chia-En Li, Sabri Sudirman, Chien-Feng Mao, Heng-Wei Chang, Alan Darmasaputra, Zwe-Ling Kong*
IM065	GEF-H1 Regulates Type I and Type III Interferon Expressions for Antiviral Host Defenses in the Intestine 彭裕淳 , 幸芙 , 陳昱銓 , 江皓森 Yu-Chun Peng, Fu Hsin, Yu-Chuan Chen, Hao-Sen Chiang
IM067	Dissecting the interaction between marginal zone B cells and neutrophils in antibacterial infection 羅麗紋 , 林國儀 Li-Wen Lo, Kuo-I Lin
IM069	Intestinal fungal colonization triggers inflammasome-dependent mucus secretion to guard intestinal villi 蔡雨寰 , 顧正崙 , 賴信志 Yu-Huan Tsai, Cheng-Lung Ku, Hsin-Chih Lai
IM071	The Role of ENT3 in Macrophage Upon Infection 謝毓庭、徐嘉琳 Yu-Ting Hsieh, Chia-Lin Hsu
IM073	The Effects of DNase I Administrations on Mouse Experimental Colitis 林以信 , 許翊暄 , 施正心 , 薛丞舜 , 張惠雯 , 江皓森 Yi-Hsin Lin, Yi-Hsuan Hsu, Chen-Hsin Shih, Chen-Shun Hsueh, Hui-Wen Chang, Hao-Sen Chiang
IM075	Ag-specific immune checkpoint inhibition through constitutive Akt activation in CD8 T cells drives protective immunity against hepatitis B virus 陳宥婕 , 鄭茹璘 , 許素菁 , 許惇偉 , 蘇裕家 , Ulrike Protzer, Percy A. Knolle, Isogawa Masanori, 黃麗蓉 You-Jie Chen, Ru-Lin Cheng, Shu-Ching Hsu, Duen-Wei Hsu, Yu-Chia Su, Ulrike Protzer, Percy A. Knolle, Isogawa Masanori, Li-Rung Huang

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IM077	In-depth transcriptional and metabolic characterization of thymic resident macrophages 蔡宗霖、 徐嘉琳 Tsai, Tsung-lin, Hsu, Chia-lin
IM079	Recombinant articulatin B chain protein induced immunomodulatory effect on dendritic cells and potential for cancer immunotherapy 徐令恒 , 佘玉萍 , 陸自利 , 李珍珍 Ling-Heng Hsu, Yuh-Pyng Sher, Tzu-Li Lu, Chen-Chen Lee

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海報編號	論文題目
MI001	Evaluation of animal locomotor patterns within skeletal muscle disease 王紹諭 , 連韋雄 , 王逢興 * Shao-Yu Wang, Wei-Shiung Lian, Feng-Sheng Wang*
MI002	Cryo-EM Reveals The Conformation of Immature Dengue Virus-Like Particle 陳冠雯 , Jedhan Ucat Galula, 趙黛瑜 , 吳尚蓉 Guan-Wen Chen, Jedhan Ucat Galula, Day-Yu Chao, Shang-Rung Wu
MI003	A Monte Carlo Investigation of the Performance of Small-Animal PET Systems with Different Ring Diameter 吳承翰 ; 楊邦宏 ; 諶立成 ; 陳志成 Cheng-Han Wu, Bang-Hung Yang, Li-Chen Shen, and Jyh-Cheng Chen
MI004	Synthesis of radio-iodinated phenyl-propanamide analogues and biological evaluation as novel imaging probes for malignant melanoma 張文議，黃文盛，劉仁賢 Wen-Yi Chang, Wen-Sheng Huang, Ren-Shyan Liu
MI005	Evaluation of Carbon-14-labeled Acetaminophen Biodistribution with Whole-body Quantitative Autoradiography in BALB/c mouse 官孝勳 , 羅瑋霖 , 王世民 , 羅盛男 , 張志賢 Siao-Syun Guan, Wei-Lin Lo, Shih-Min Wang, Sheng-Nan Lo, , Chih-Hsien Chang
MI006	The novel therapeutic integration against Temporomandibular disorders (TMD) 蔡謹伃 , 彭伯宇 , 黃瓊芳 , 鄧文炳 Chin-Yu Tsai, Peng Bou-Yue, Huang Chiung-Fang, Win-Ping Deng
MI007	Molecular Nuclear Imaging for Colorectal Cancer Stem Cell Detection In Vivo 官孝勳 , 羅彩月 , 彭正良 , 廖澤蓉 Siao-Syun Guan, Tsai-Yueh Luo, Cheng-Liang Peng, Tse-Zung Liao

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海報編號	論文題目
CM030	DHX8 Inhibits R-loop Formation and Regulates Alternative Lengthening of Telomere 陳昀，朱雪萍 Yun Chen, Hsueh-Ping Chu
CM031	Anti inflammatory effects and molecular mechanisms of Dictamnine-loaded PLGA nanoparticles 謝昀庭 , 黃蕙君 Yun-Ting Hsieh, Huey-Chun Huang
CM032	Differential Modulatory Role of Endogenous Galectin-9 in T Cells and Dendritic Cells 吳諭萱 [1]、陳恒儀 [2,3]、劉扶東 [4]、司徒惠康 [2,3] * Yu-Hsuan Wu[1], Heng-Yi Chen[2,3], Fu-Tong Liu[4], Huey-Kang Sytwu[2,3] *

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CM033	Thioridazine Enhances P62-Mediated Autophagy and Apoptosis Through Wnt/β -Catenin Signaling Pathway in Glioma Cells 柯慧君 , 朱晟瑋 , 陳大山 , 賴雲鈴 , 林承彥 , 邱顯肇 , 黃奇英 , 洪義人 Huey-Jiun Ko, Cheng-Wei Chu, Tai-Shan Cheng, Yun-Ling Lai, Chen-Yen Lin, Shean-Jaw Chiou, Chi-Ying F. Huang, Yi-Ren Hong
CM034	Novel EGFR Inhibitor Rewires Tumor Metabolism in Head and Neck Cancer 張欣蕙 [1], 黃致翔 [1], 謝興邦 [1], 郭呈欽 [2], 陳炯東 [1], 龔行健 [3,*], 郭靜娟 [1,*] Hsin-Huei Chang[1], Chih-Hsiang Huang[1], Hsing-Pang Hsieh[1], Cheng-Chin Kuo[2], Chiung-Tong Chen[1], Hsing-Jien Kung[3*], Ching-Chuan Kuo[1*]
CM035	Ha-RasV12 Overexpression Inhibits the Stretch-Induced Perpendicular Cell Orientation in MDCK Cells 李倫維 , 林錫慧 , 湯銘哲 Lun-Wei Li, His-Hui Lin, Ming-Jer Tang
CM036	Effects of Recombinant Thrombomodulin Domain 1 in Porphyromonas gingivalis Lipopolysaccharide-Induced Osteoclastogenesis 張藍云 , 張碧英 , 郭承翔 , 施桂月 , 吳華林 Lan-Yun Chang, Bi-Ing Chang, Cheng Hsiang Kuo, Guey-Yueh Shi, and Hua-Lin Wu
CM037	Investigating the Role of p53 Status in Cooperative Lethal Effect of Targeted Therapy in High-Grade Serous Ovarian Carcinoma 蔡暟耘 , 莊永仁 Kai-Yun Tsai, Yung-Jen Chuang
CM038	2,5-Dihydroacetophenone Suppresses RANKL–Induced Osteoclastogenesis through the Inhibition of Mitogen-Activated Protein Kinase and calcineurin-mediated NFATc1 Signaling Pathways 李佩蓉、陳海威、陳志良 Pei-Rong Lee, Hai-Wei Chen, and Chi-Liang Chern
CM039	Transposons-activated Immune Signaling in the Aged Niche Drops Germline Stem Cells 林坤陽、林祺洪、柯懿庭、Elham Rastegari、蘇鈺涵、張翊倢、林仲彥、呂美曄、皮海薇、王文德、許惠真 Kun-Yang Lin, Chi-Hung Lin, Yi-Ting Ke, Elham Rastegari, Yu-Han Su, Yi-Chieh Chang, Chung-Yen Lin, Mei-Yeh Lu, Haiwei Pi, Wen-Der Wang and Hwei-Jan Hsu
CM040	Role of CD133 and LGR5 in Regulating Colorectal Cancer Organoids 李依庭 , 尤子維 , 趙瑞益 Yi-Ting Lee, Tzu-Wei Yu, Jui-I Chao
CM041	Small GTPase Rab37 and Phytochemical J125 Induce Different Autophagy Pathways in Lung Adenocarcinoma CL1-5 Cell 張舒畬，蘇純立 Shu-Yu Chang, Chun-Li Su*
CM042	Study the effects of free cholesterol accumulation in sorafenib-treated and sorafenib resistant liver cancer cells 劉巧凡 [1,2] 廖宜真 [2,*] Chiao-Fan Liu [1,2] Yi-Jen Liao [2,*]
CM043	Inhibition of Glo1 expression, activity, autophagy and ER stress by magnolol induces apoptosis in PC-3 and DU145 cells 周青郁 , 張自忠 , 周志中 Ching-Yu Chou, Tsu-Chung Chang,Tz-Chong Chou
CM044	The role of TRIP6 and Rac proteins in the glioblastoma tumorigenesis 蔡瑞真 , 劉文善 , 謝硯竹 , 林栩茵 , 賴韻如 Jui-Cheng Tsai, Wen-Shan Liu, Yan-Zhu Hsieh, Hoi-Ian Lam, Yun-Ju Lai
CM045	Liver regeneration accelerates hepatitis B virus-related tumorigenesis of hepatocellular carcinoma 施富瀛 [1,2]，張鴻議 [3]，蔡弘文 [4,5]，謝汶娟 [6]，蘇益仁 [3,4,6]，林毅志 [7,8,9]，鄧喬方 [1,10] Fu-Ying Shih[1,2], Hong-Yi Chang[3], Hung-Wen Tsai[4,5], Wen-Chuan Hsieh[6], Ih-Jen Su[3,4,6], Yih-Jyh Lin[7,8,9] and Chiao-Fang Teng[1,10]
CM046	The Therapeutic Effects of PLGA-Icariin in a Rat Model of Anterior Ischemic Optic Neuropathy (rAION). 溫耀增、蔡榮坤 Tushar Desai[1,2], Yao-Tseng Wen[2], Rong-Kung Tsai[1,2*]

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CM047	RERG acts as a tumor suppressor by attenuating RAS signaling and enhancing the response of hormone therapy 許珮禎 , 何嘉益 , 于承平 Pei-Chen,Hsu Jar-Yi,Ho Cheng-Ping,Yu
CM048	Up-regulation of Tumor Endothelial Marker 1 Expression by Insulin-like Growth Factor-1 Enhances PDGF-mediated Fibroblast Migration 古雅竺 , 施桂月 , 吳華林 Ya-Chu Ku, Guey-Yueh Shi, Hua-Lin Wu
CM049	Investigating Oncogenic Roles of Long Intergenic Non-Protein Coding RNA 461 (LINC00461) in HDAC6-Mediated Glioblastoma Malignancy 吳安智 [1], 楊文賓 [1], 張文昌 [1], 莊健盈 [2*] An-Chih Wu[1], Wen-Bin Yang[1], Wen-Chang Chang[1], Jian-Ying Chuang[2*]
CM050	A long non-coding RNA--TERRA in epigenetic regulation 方國禎 [1], 朱雪萍 [2] Guo-Chen Fang[1], Hsueh-Ping Chu[2]
CM051	MicroRNA-486-3p Functions as a Tumor Suppressor in Oral Cancer by Targeting DDR1 周松濤 [1,2]，蕭振仁 [3]，林素芳 [1]，汪宏達 [2]，方慈媛 [1,2]，陳宗澤 [1]，夏興國 [1,4*] Sung-Tau Chou[1,2], Jenn-Ren Hsiao[3], Su-Fang Lin[1], Horng-Dar Wang[2], Ci-Yuan Fang[1,2], Tsung-Tse Chen[1] and Shine-Gwo Shiah[1,4*]
CM052	The Functional Changes of Macrophages in the Fatty-Acid Accumulated HCC Microenvironment 鄭雲心，黃麗蓉 Yun-Hsin Cheng, Li-Rung Huang
CM053	Impaired mammary tumor formation and metastasis by the point mutation of a Smad3 linker phosphorylation site 黃千芝、黃閔暄、鍾湘汝、邱淑懿、畢昂卡、林勇、劉芳、松浦功 Chien-Chih Huang, Min-Syuan Huang, Hsiang-Ju Chung, Shu-Yi Chiu, Priyanka Yadav, Yong Lin, Fang Liu, Isao Matsuura
CM054	Heat Shock Factor 1 Modulates Human Herpesvirus 8 Replication 吳冠璋、徐慧雯、林冠華、周妙真、黃美涵、王怡棻 * Guan-Zhang Wu, Huey-Wen Shyu, Kuan-Hua Lin, Miao-Chen Chou, Mei-Han Huang, Yi-Fen Wang*
CM055	The Modulatory Role of Caveolin-1 in TGF-β Signaling Pathways 廖偉翔 , 邱文泰 Wei-Hsiang Liao, Wen-Tai Chiu
CM056	Capsaicin enhances erlotinib-induced cytotoxicity via AKT inactivation and excision repair cross-complementary 1 (ERCC1) down-regulation in human lung cancer cells. 顏廷涓、林芸薇 Ting-Chuan Yen, and Yun-Wei Lin
CM057	Inhibition of thymidine phosphorylase expression by hsp90 inhibitor potentiates the cytotoxic effect of salinomycin in human non-small-cell lung cancer cells. 陳姿吟 , 林芸薇 Tzu-Ying Chen, Yun-Wei Lin

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CB019	To develop a fusion protein combined α-galacosidase A and insulin-like factor 2 for treatment of Fabry disease 陳韻如 , 張勝凱 , 李萍惠 , 林妤庭 , 牛道明 * Yun-Ru Chen, Sheng-Kai Zhang, Ping-Hui Li, Yu-Ting Lin, Dau-Ming Niu
CB020	Quantification of Six Antiepileptic Drugs in Plasma Using Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry 黃雅卿 [1,2], 黃韻芬 [1], 林秀娜 [3], 吳禹利 [3], 林佳霓 [1,2], 甯孝真 [1,2*] Ya-Ching Huang[1,2], Yun-Fen Huang[1], Siew-Na Lim[3], Tony Wu[3], Chia-Ni Lin[1,2], Hsiao-Chen Ning[1,2*]

CB021	Measuring Indium in Serum by Inductively Coupled Plasma Mass Spectrometry 陳尚宣 [1], 黃雅卿 [1,2], 林佳霓 [1,2], 甯孝真 [1,2*] Shang-Hsuan Chen[1], Ya-Ching Huang[1,2], Chia-Ni Lin[1,2], Hsiao-Chen Ning[1,2*]
CB022	An Ultra-High-Performance Liquid Chromatography-Tandem Mass Spectrometric Method for Therapeutic Drug Monitoring of Posaconazole and Voriconazole in Plasma 張永麟 [1]、黃雅卿 [1,2]、林佳霓 [1,2]、甯孝真 [1,2*] Yung-Lin Chang[1], Ya-Ching Huang[1,2], Chia-Ni Lin[1,2], Hsiao-Chen Ning[1,2*]
CB023	To explore the correlation between Siglec-7 and the transcription factor FoxO1 in natural killer cells 黃奕齊，黃新庭，施宜榛，吳豫宣，涂玉青 * Yi-Chi Huang, Hsin-Ting Huang, Yi-Chen Shih, Yu-Xuan Wu, Yuh-Ching Twu*
CB024	To study the effect of DNA methylation status on Siglec-7 activation in natural killer cells 黃新庭，黃奕齊，施宜榛、吳豫宣、涂玉青 * Hsin-Ting Huang, Yi-Chi Huang, Yi-Chen Shih, Yu-Xuan Wu, Yuh-Ching Twu*
CB025	Investigate Centriole Duplication in C.elegans spermatogenesis 陳柏任 [1], 吳瑞菁 *[1] Po-Jen Chen[1], Jui-Ching Wu*[1]
CB026	Protein synthesis is essential for progression of male meiotic divisions in C. elegans 陳尚暘 [1], 陳佳佑 [1], 李佳安 [1], 吳瑞菁 [1, 2] Shang-yang Chen[1], Jia-You[1], Jia-An Lee[1], Jui-Ching Wu[1, 2]
CB027	Investigating Male Meiotic Cell Progression Mechanism in C. elegans Spermatogenesis by Using Chemical Genetic Method 陳尚暘 [1], 吳瑞菁 [1, 2] Shang-Yang Chen[1] and Jui-Ching Wu[1, 2]
CB028	Modeling colorectal cancer using genetically engineered colonic organoids derived from human induced pluripotent stem cells 陳瑞瑩 [1], 鄭亦棻 [2], 沈家寧 [1, 2*] Ruei-Ying Chen[1], I-Fen Cheng[2], Chia-Ning Shen[1, 2*]
CB029	Investigation of actin dynamics during spermatogenesis in C. elegans 蕭孟生 , 吳瑞菁 Meng-Sheng Xiao, Jui-Ching Wu
CB030	Exploring the Factors Leading to Biased Oxygen Saturation Measurements by Two Different Laboratory Modules 蔡宸豪、簡慈儀、卓信慶、郭芷瑄、鐘明義、高秀娥、柳淑美、鐘桂彬 Chen-Hao Tsai、Tzu-I Chien、Hsin-Ching Cho、Chih-Hsuan Kuo、Ming-Yi Chung、Hsiu-O Kao、Shu-Mei Liu、Kuei-Pin Chung
CB031	The alleviation systems of H_2O_2-mediated oxidative stress in Stenotrophomonas maltophilia 黃靖芸 , 黃奕瑋 , 黃馨慧 , 甯孝真 , 楊翠青 Jing-Yun Huang, Yi-Wei Huang, Hsin-Hui Huang, Hsiao-Chen Ning, Tsuey-Ching Yang
CB032	Simultaneous detection of 21 novel psychoactive substances using dried drug spots 曹瑋倫 , 林惠茹 Wei-Lun Tsao, Huei-Ru Lin
CB033	Polymorphisms of the UDP-glucuronosyl transferase 1A7 gene with bladder cancer 陳琮棋 , 陳香蘭 , 鄭妍 , 涂雅鑫 , 黃慶三 , 唐光生 Chen Chung-Chi , Chen Hsiang-Lan, Zheng Yan, Tu Ya-Hsin, Huang Ching-Shan, Tang Kung-Sheng
CB034	What are key factors influencing the incidence of hemolysis in healthcare settings: a systematic review and meta-analysis 溫巧尼 , 彭淑玉 , 甯孝真 Chiao-Ni Wen, Shu-Yu Peng, Hsiao-Chen Ning
CB035	Regulation of Interleukin-4 to Insulin-secretion and Bioactivity of Pancreatic β Cell 蕭巧婉 [1,2], 蕭明裕 [3], 張懿欣 [1,2*] Chiao-Wan Hsiao[1,2], Ming-Yuh Shiau[3] and Yih-Hsin Chang[1,2*]

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TX021	Risk 21 for Human Health Risk Assessment with Azoxystrobin Residue in Grape 呂水淵、廖婧淳、牟為謙、陳敏貞、姚成瑞、蔡韙任 Shui-Yuan Lu, Jing-Chun Liao, Wei-Chien Mou, Min-Chen Chen, Cheng-Ruei Yao, Wei-Ren Tsai
TX022	Risk 21 for Human Health Risk Assessment with Carbofuran Residue in Grape 呂水淵、廖婧淳、牟為謙、陳敏貞、姚成瑞、蔡韙任 Shui-Yuan Lu, Jing-Chun Liao, Wei-Chien Mou, Min-Chen Chen, Cheng-Ruei Yao, Wei-Ren Tsai
TX023	Evaluation of the organophosphate pesticide malathion action on Ca2+ homeostasis and cell viability in normal human astocytes 顏宏池 , 梁維哲 Hung-Chih Yen, Wei-Zhe Liang
TX024	Mechnisms of Qquercetin on Antioxidant Activity, Trace Element Level, and Lipid Peroxidation in the Ischemic Brain Cortex of Rats 林明政 [1], 廖晉昇 [1,*] Ming-Cheng Lin[1], Chin-Sheng Liao[1,*]
TX025	By increasing Brownian motion, taste sensation change on different gustatory stimulation solutions, induced by Photoluminescent of Bioceramic (PLB) 丁惠儀 , 梁庭繼 Huey-Yi Ting, Ting-Kai Leung
TX026	Neuroprotective Mechanisms of Curcumin on the Ischemic Brain Cortex of Rats is Associated with Enhancing Antioxidant Enzyme Activity, Trace Element Level, and Declining Lipid Peroxidation 林明政 , 黃郁恩 Ming-Cheng Lin, Yu-En Huang
TX027	Effects of Saccharomyces cerevisiae extract on melanoma growth 王安齊 , 劉明毅 An-Chi Wang, Ming-Yie Liu
TX028	Effects of SY treatment on cytochrome P450, glutathione S-transferase and UDP-glucuronosyltransferase in rats 江姿儀 [1,2]、陳安琦 [1,2]、翁芸芳 [1,2,3,4*] Chiang, Tzu-Yi[1,2], Chen, An-Chi[1,2] and Ueng, Yune-Fang[1,2,3,4*]
TX029	Risk 21 for Human Health Risk Assessment with Amisulbrom Residue in Grape 呂水淵、廖婧淳、牟為謙、陳敏貞、姚成瑞、王建彬、蔡韙任 Shui-Yuan Lu, Jing-Chun Liao, Wei-Chien Mou, Min-Chen Chen, Cheng-Ruei Yao, Jihn-Bin Wang, Wei-Ren Tsai
TX030	Intrducting the concept of new Traditional Chinese Medicine Workshop by combining electromagnetic wave measuring system,BIOCERAMIC technology and Chinese Herbal Aromatherapy 蘇柏翰 , 梁庭繼 Po-Han Su,Ting Kai Leung
TX031	Synergistic Antibacterial Effects of Silver Nanoparticles in Combination with Stilbenoid Compounds Against Bacillus Cereus and Staphylococcus Aureus 史育璇、 陳容甄 Yu-Hsuan Shih, Rong-Jane Chen
TX032	Inhibition of mTOR Impairs Mitosis Progression and Enhances Eg5 inhibitor-induced Cell Death 蘇亮瑜 [1,2], 郭曉卉 [2], 方玠鼎 [2,3], 易玲輝 [2*] Liang-Yu Su[1,2], Hsiao-Hui Kuo[2], Chieh-Ting Fang[2,3], and Ling-Huei Yih[2*]
TX033	The ME/EA Extract of Orthosiphon aristatus Attenuates β-amyloid-induced Cellular Toxicity by Inhibiting Pro-inflammatory Cytokines in BV2 Microglial Cell 蔡嫣翎 , 黃辰彥 , 褚俊傑 Yan-Ling Cai, Chen-Yen Huang, Jiunn-Jye Chuu

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TX034	The extract of the solid-state cultured compound mycelium from Ganoderma lucidum protects against LPS-induced N2A cell injury through inhibition of pro-inflammatory mediators 涂雯媛 , 鄭慧妤 , 褚俊傑 Wen-Yuan Tu, Hui-Yu Zheng[1], Jiunn-Jye Chuu
TX035	In vitro and in vivo inhibitory effects of Crossostephium chinense extracts on breast cancer cell invasion 楊薇楨 [1], 陳璟賢 [2], 吳珮萱 [2], 蔡里安 [1], 林慧萱 [1]* Wei-Chen Yang[1], Jing-Hsien Chen[2], Pei-Hsuan Wu[2], Li-An Tsai[1], Hui-Hsuan Lin[1]*
TX036	Synthesis and biological evaluation of novel lipophilic substituted 1,4-naphthoquinone derivatives against human colon cancer cells 許煇健、黃柏融、陳奕翰、賴廷芳、詹雅倫、吳進益 Hui-Chien Hsu, Po-Jung Hung, Yi-Han Chen, Ting-Fang Lai, Ya-Lun Chan, Jin-Yi Wu
TX037	MIF/CXCR4 Signaling Pathway Mediates Human Gastric Cancer Progress 吳佩蓮 [1], 李佳容 [1], 翁碧娟 [1], 陳逸琪 [1], 陳清元 [1], 郭昭宏 [1,3], 橫山一成 [3,5], 郭富珍 [2], 吳登強 [1,3,4,5], 劉忠榮 *[1,3] Pei-Lien Wu[1], Chia-Jung Li[1], Bi-Chuang Weng[1], Yi-Chi Chen[1], Ching-Yuan Chen[1] , Chao-Hung Kuo[1,3], Kazunari K. Yokoyama [3,5], Fu-Chen Kuo[2], Deng-Chyang Wu[1,3,4,5], Chung-Jung Liu*[1,3]
TX038	Investigation of seafood product identities via mini-DNA barcoding Pei-Ying Chen[1], Tsung-Jung Liu[2], and Kung-Hao Liang[3]
TX039	Role of miR-4486 Regulate Target Genes Lead to LoVo Colon Cancer Cells Resistance to CPT-11 陳明正 , 朱芫緣 , 廖柏翔 , 郭薇雯 , 黃志揚 Ming-Cheng Chen, Yuan-Yuan Chu, Po-Hsiang Liao, Wei-Wen Kuo, Chih-Yang Huang
TX040	Establishment of a Prediction Model of Breast Cancer Using Estrogen and Naphthalene Quinone-Derived Protein Adducts as Biomarkers 朱方宜 , 林昱廷 , 許碩元 , 林喆 , 陳達人 , 謝為忠 , 林伯雄 Fang-Yi Zhu, Yu-Ting Lin, Shuo-Yuan Hsu, Che Lin, Dar-Ren Chen, Wei-Chung Hsieh, Po-Hsiung Lin

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PY046	Epithelial Response to Bacterial Internalization in Colitis-associated Colon Cancers 張心瑜 , 林柏諭 , 李憶萱 , 白宇辰 , 翁儷庭 , 胡玫昀 , 薛　文 , 董雅玲 , 魏淑鈐 , 倪衍玄 , 余佳慧 Xin-Yu Chang, Po-Yu Lin, Yi-Hsuan Li, Yu-Chen Pai, Li-Ting Weng, Mei-Yun Hu, Yin-Wen Shune, Ya-Ling Tung, Shu-Chen Wei, Yen-Hsuan Ni, Linda Chia-Hui Yu
PY047	Mucosal Neurite Outgrowth was associated with Intestine Hyperalgesia 謝毓庭 , 林俐妤 , 李映璇 , 佘孟萍 , 余佳慧 * Hsieh Yu-Ting, Li-Yu Lin, Ying-Hsuan Li, Meng-Ping She, and Linda Chia-Hui Yu*
PY048	The Role of SUMO1 Specific Peptidase 1 in Irinotecan Resistant LoVo Colorectal Cancer Cells 陳美智 , 郭薇雯 , 黃志揚 Mei- Chih Chen, Wei-Wen Kuo, Chih-Yang Huang
PY049	Interleukin-4 Induces HSD3B1 Expression in HT-29 Colon Cancer Cells through STAT6, AKT/GSK3 and Histone Deacetylase Activity 陳稚鴻 , 陳昕梅 , 洪珮瑜 , 胡孟君 Chin-Hung Chen, Hsin-Mei Chen, Pei-Yu Hung, Meng-Chun Hu
PY050	TrkB activator LM22A attenuates white matter injury induced by hypoxia–ischemia in a neonatal rat model 許舒沛 , 洪家琪 , 許珮蒨 , 錢妏樺 , 黃昱傑 , 李怡萱 * Su-Pei Hsu, Chia-Chi Hung, Pei-Chien Hsu, Wen-Hua Chien, Yu-Jie Huang, Yi-Hsuan Lee*
PY051	Development of a Specific Nucleic Acid-based Lateral Flow Diagnostic Device to Monitor Porphyromonas gingivalis in Subgingival Plaque of Chronic Periodontal Patient 莊惠文 , 鄭傪憶 , 余冠毅 , 蕭博元 , 黃碩平 , 鄭琬蒨 , 黃仁勇 , 劉正哲 Hui-Wen Chuang, Yao-Yi Cheng, Kuan-Yi Yu, Po-Yan Hsiao, Shou-Ping Huang, Wan-Chien Cheng, Ren-Yeong Huang, Cheng-Che Liu

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PY052	The Role of p62 in the Browning Effect of Irisin in 3T3-L1 cells 汪其玟 , 鄭寶雲 Chyi-Wen Wang, Pao-Yun Cheng
PY053	A potential target, ATP sensitive potassium channel (KATP), alleviates L-DOPA induced dyskinesia in 6-OH-DA lesioned mice 何婉禎 , 陳珮君 Wan-Chen Ho, Pei-Chun Chen
PY054	The Neuroprotective Effect of Proteasomes Inhibition in Intracerebral Hemorrhage Rats 胡瑋芬，廖學健 Wei-Fen Hu, Hock-Kean Liew
PY055	The production and maturation of macrophage lysyl oxidase in obesity-induced adipose tissue fibrosis 高伶甄、黃安、邱昱瑋、林錫慧、湯銘哲、蔡曜聲 Ling-Zhen Kao, An Huang, Yu-Wei Chiou, Hsi-Hui Lin, Ming-Jer Tang, Yau-Sheng Tsai
PY056	Pomalidomide and 3,6’ -dithiopomalidomide Prevent TBI-induced Neuronal Damage through Regulation of Neurodegeneration, Astrogliosis, Microglial Activation and Neuroinflammation 林芷彤，蔡秉言，黃本森，王家儀 Chih-Tung Lin, Ping-Yen Tsai, Pen-Sen Huang, Jia-Yi Wang
PY057	Molecular mechanisms of glucose metabolites conferring tumor chemoresistance to irinotecan 黃中彥 , 白宇辰 , 余佳慧 Chung-Yen Huang, Yu-Chen Pai, Linda Chia-Hui Yu
PY058	The Role of MiR-93-5p in Mediating the Anti-cancer Effect of 1alpha,25-Dihydroxyvitamin D3 on Prostate Cancer Cells 曾柏盛，丁慧如 Bo-Sheng Zeng, Huei-Ju Ting
PY059	The Involvement of CCL5-Dependent MDSCs in the Development of Obesity-Associated Adipose Tissue Inflammation and Insulin Resistance 洪維澤、宋述君、詹沛祺、謝博軒 Wei-Ze Hong, Shu-Jun Song, Pei-Chi Chan, Po-Shiuan Hsieh
PY060	Study on the role of endothelial cell specific molecule-1 in chronic kidney disease 初朝陽 [1]、林詩涵 [1]、謝逸憲 [2,3] Chao-Yang Chu [1], Shih-Han Lin [1], Yi-Hsien Hsieh [2,3]
PY061	Blockade of Neuronal Glutamine Uptake during Brain Development Differently Changes Fertility of Female Rats 林毓雄，梁淑 Yu-Syong Lin, Shu-Ling Liang
PY062	Glutamine-Mediated Tight Junction Remodeling under Metabolic Stress in Colorectal Cancer Cell 陳繼開 , 黃菁英 Ji-Kai Chen, Ching-Ying Huang
PY063	Therapeutic Effect of Pomalidomide on Acute Lung Injury Following Traumatic Brain Injury May Involve Enhancing Antioxidative Capacity 蔡秉言 [1], 林芷彤 [2], 謝丞凱 [3], 王苡茜 [1], 黃本森 [2], 王家儀 [*2] Ping-Yen Tsai[1], Chih-Tung Lin[2], Cheng-Kai Hsieh[3], Yi-Chien Wang[1], Pen-Sen Huang[2], Jia-Yi Wang[*2]
PY064	Investigations on Cellullar Electrophysiologic Effects of Tyrosine Kinase Inhibitors in Heart Cells 李凱森 , 吳勝男 , 劉秉彥 Kai-sen Lee, Sheng-Nan Wu, Ping-Yen Liu
PY065	Low dose Rapamycin Prevents Cell Apoptosis and Upregulates StAR and 3-beta-HSD in testis from Spontaneously Hypertensive Rats 王添德 , 黃志揚 , 林靜瑩 Tian-De Wang, Chih-Yang Huang , Jing-Ying Lin
PY066	Purpurin attenuates Myocardial Ischemia/Reperfusion Injury In Rats 張景翔 [1], 廖娟妙 [2], 黃相碩 [3] Ching-Hsiang Chang[1], Jiuan-Miaw Liao[2], Shiang-Suo Huang[3]

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PY067	Nerolidol allivate myocardial ischemia reperfusion injury 徐悅恬 , 黃相碩 , 廖娟妙 Yueh-Tien Hsu, Shiang-Suo Huang, Jiuan-Miaw Liao
PY068	Solanesol attenuates myocardial ischemia-reperfusion injury 洪禮恩 , 廖娟妙 , 黃相碩 Lee En Ang, Jiuan-Miaw Liao, Shiang-Suo Huang
PY069	Cardioprotective effect of Diosmetin on rats subjected to myocardial ischemia-reperfusion injury 顏怡安，林威騰，廖娟妙，黃相碩 Yi-An Yen,Wei-Teng Lin, Jiuan-Miaw Liao, Shiang-Suo Huang
PY070	An Indirubin Derivative, Indirubin-3'-Monoxime Suppresses Oral Cancer Tumorigenesis through the Downregulation of Survivin 羅婉瑜 Wan-Yu Lo
PY071	The Effect of Poalctin on Cell Proliferation in non-small cell lung cancer cells Jou-Chun Chou, Ho Lin, Paulus S. Wang
PY072	Effect of Musa sapientum L. Extract on Apoptosis of Prostate Cancer PC-3 Cells and Breast Cancer MCF-7 Cell Lines 吳奇恩 [1], 李貫綸 [1,2] , 林彥昌 [1] Qi-En Wu[1], Kuan-Lun Li [1,2], Yen-Chang Lin[1]
PY073	Transient receptor potential ankyrin 1 inhibition reduces neuronal apoptosis in experimental traumatic brain injury 尹東傑 [1], 吳軍滬 [2], 李俊彥 [3], 柯嘉華 [3] , 陳思甫 [1,3] Tung-Chieh Yin [1], Chun-Hu Wu [2], Chun-Yen Lee [3], Chia-Hua Ke[3], Szu-Fu Chen [1,3]
PY074	The synergistic inhibition of Metformin and Emodin on androgen receptor protein and LNCaP cell proliferation Hao Fang [1], Ching-Han Yu [2], Mei-Chih Chen [3], Chia-Herng Yu [4], and Ho Lin*[1]
PY075	The Expression of Circular RNA CCDC66 Modulates the Development of Drug Resistance to Chemotherapeutic Reagents in Colorectal Cancer 余亞珊、蕭貴陽 Ya-Shan Yu、Kuei-Yang Hsiao
PY076	Effect of Fisetin on rats subjected to myocardial ischemia-reperfusion injury 黃婉婷 侯俊宏 黃相碩 廖娟妙 Wan-Ting Huang, Chun-Hung Ho, Shiang-Suo Huang, Jiuan-Miaw Liao
PY077	Aryl Hydrocarbon Receptor gene defect causes Cell Reprogramming and reduces the synthesis of pro-fibrosis factors 林孟緯、詹燕茹、陳瑾儀、李青澔、康照洲 Meng-Wei Lin, Yen-Ju Chan, Ching-Yi Chen, Ching-Hao Li, and Jaw-Jou Kang
PY078	Investigating the Epigenetic Role of dATF2 in Drosophila Innate Immune Responses 譚永鈺、顏賢章 Yung-Yu Tan, Shian-Jang Yan
PY079	Glucosamine impact on the browning process of white adipose tissue 陳亭宇 , 吳鈺琳 Ting-Yu Chen, Yuh-Lin Wu
PY080	Rapid analysis of bacterial composition in periprosthetic joint infection by 16S rRNA metagenomic sequencing 張毓翰 [1,2]，張智翔 [1,2,3,4]，江倪全 [5,6]，謝邦鑫 [1,2]，施信農 [1,2]，翁文能 [1,2,3]，陳美鳳 [1] Yuhan Chang[1,2], Chih-Hsiang Chang[1,2,3,4], Chuan Chiang-Ni [5,6], Pang-Hsin Hsieh[1,2], Hsin-Nung Shih[1,2], Steve W. N. Ueng[1,2,3]and Mei-Feng Chen[1]*
PY081	Synovial Fluid Macrophage Inflammatory Protein-3α as a Novel Biomarker for the Diagnosis and Debridement Prediction of Periprosthetic Joint Infections 李采燕 [1]，張毓翰 [1,2]，張智翔 [1,2,3,4]，謝邦鑫 [1,2]，施信農 [1,2]，翁文能 [1,2,3]，陳美鳳 [1]* Cai Yan Li[1], Yuhan Chang [1,2], Chih-Hsiang Chang[1,2,3,4], Pang-Hsin Hsieh[1,2], Hsin-Nung Shih[1,2], Steve W. N. Ueng[1,2,3], and Mei-Feng Chen[1]*

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PY082	Changes of HRV and resting-state amygdala functional connectivity after SKY practicing 許庭維 [1], 李盛凱 [3], 林君昱 [4], 黃阿敏 [2] Ting-Wei Hsu[1], Sheng-Kai Lee[3],Chun-Yu Lin[4], A-Min Huang[2]
PY083	Molecular Pathophysiology and Modifying Therapies for Kennedy disease: The switch control for K63 and K48-linked ubiquitination on polyglutamin expanded androgen receptor 魏國鼎 [1,2,4] , Gen Sobue[3] , Hiroaki Adachi[3] , 康宏佑 [1,2,4*] Kuo-Ting Wei [1,2,4], Gen Sobue[3] , Hiroaki Adachi[3] , Hong-Yo Kang [1,2,4*]
PY084	Organization of Neurons in Paravertebral Ganglia that Send Axons Bypass Celiac and Superior Mesenteric Ganglia in Rat 王豐彬 [1-5*], 方建喨 [1,6] Feng-Bin Wang[1-5*], Chien-Liang Fang [1,6]
PY085	Role of Electroacupuncture on Acid Saline-Induced Muscle Pain in Mice 胡雲瑜 , 林以文 Yun-Yu Hu, Yi-Wen Lin
PY086	Doxorubicin-induced cardiomyopathy involves IGF-IIRα , a novel stress inducible protein leading to cellular damage in both H9c2 cells and in vivo 黃志陽 , 郭偉萬 Sudhir Pandey[#1], Chih-Yang Huang [2], Wei-Wan Kuo[3] and Chih-Yang Huang[*1, 4, 5]
PY087	The Role of MTHFR Genotype in Colorectal Cancer Susceptibility in Taiwan 林佳玟 [1], 楊美都 [1], 蔡佳紋 [1], 張文馨 [1], 蕭捷倫 [1], 鄭隆賓 [1], 岳德政 [2,3], 李孟智 [4,5,6], 包大贏 [1,7*] Chia-Wen Lin[1], Mei-Due Yang[1], Chia-Wen Tsai[1], Wen-Shin Chang[1], Chieh-Lun Hsiao[1], Long-Bin Jeng[1], Te-Cheng Yueh[2,3], Meng-Chih Lee[4,5,6], Da-Tian Bau[1,7*]
PY088	Association of Matrix Metalloproteinase-8 Genotypes with the Risk of Bladder Cancer 李欣庭 [1,2]，吳錫金 [2]，王韻琪 [2]，張文馨 [2,3]，蔡佳紋 [2,3]，許懷美 [2,3]，龔志力 [4]，包大贏 [2,3*] Hsin-Ting Li[1,2], Hsi-Chin Wu[2], Yun-Chi Wang[2], Wen-Shin Chang[2,3], Chia-Wen Tsai[2,3], Huai-Mei Hsu[2,3], Chi-Li Gong[4], Da-Tian Bau[2,3*]
PY089	HSPD1 repressed E-cadherin expression to promote cell invasion and migration for poor prognosis in buccal mucosa squamous cell carcinoma 康柏皇 [1], 李政昕 [2], 劉慧涵 [2], 葛魯蘋 [2], 劉佩芬 [2*] Bor-Hwang Kang[1], Cheng-Hsin Lee[2], Huei-Han Liou[2], Luo-Ping Ger[2], Pei-Feng Liu[2*]
PY090	The Contribution of XRCC3 Genotypes to Childhood Acute Lymphoblastic Leukemia 裴仁生 [1], 許珮甄 [1], 陳昭淳 [1], 張文馨 [2], 蔡佳紋 [2], 王韻琪 [2], 沈德群 [2,4], 鄭舜平 [3], 包大贏 [2,5,6*] Jen-Sheng Pei[1], Pei-Chen Hsu[1], Chao-Chun Chen[1], Wen-Shin Chang[2], Chia-Wen Tsai[2], Yun-ChiWang[2], Te-Chun Shen[2,4], Shun-Ping Cheng[3], Da-Tian Bau[2,5,6*]

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PH038	Antihyperglycemic effect of moraceae extract in diabetic mice 蘇宜君 [1], 柯順耀 [2], 紀宗呈 [3] YI-CHUN SU[1],SHUN-YAO KO[2], TZONG-CHERNG CHI[3].
PH039	Explore the Effect of Intracerebral Hemorrhage on Brain Tumors 陳瑞芳，林家禾 Rui-Fang Chen, Chia-Ho Lin
PH040	Fucoidan, a PD-L1 inhibitor, Induced Cell Cycle Arrest and Apoptosis May through Histone Deacetylase (HDAC) Regulation in Human Lung Cancer Cells 林于傑 [1*], 楊軍建 [2,3], 翁永弘 [1,3], 林暐棟 [3], Valens Munyembaraga[1], 田堉宏 [1], 邱慧芬 [1,3#] Yu-Chieh Lin[1*], Chun-Chien Yang[2,3], Yun-Hong Wong[1,3], Wei-Tung Lin[3], Valens Munyembaraga1, Yu-Hung Tian[1], Hui-Fen Chiu[1,3#]

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PH041	The apoptotic mimicry prepared from the shrimp head phospholipid has immune regulatory effects on the canine and mouse myeloid cells 高翊峰 , 蔡惠君 , 高益添 , 曾賢忠 Yi-Feng Kao, Huey-Jine Chai, I-Tien Kao, Shiang-Jong Tzeng
PH042	PIAS3 Deficiency Sensitizes Gastric and Hepatic Cancers to PARP (poly ADP-ribose polymerase) Inhibition 林祖薇 , 涂芷瑄 , 吳青錫 * Tsu-Wei Lin , Jyy-Shiuan Tu and Ching-Shyi Wu*
PH043	The Protective Effect of the Water Fraction of Garlic Extract on Der p treated A549 cells 范曉雰， 陳華鑫)，劉沛均，宋依玲，謝予惠，林巧婷，曾科筌，蔡仁傑 Hsiao-Fen Fan1, Hua Hsin Chen1, Pei-Jun, Liu2, Yi-Ling, Sung2, Yu-Hui,Hsieh2, Chao Ting Lin2, Ke-Quan Zeng2, Jen-Chieh Tsai2,*
PH044	Lysophosphatidylcholine Induces Cyclooxygenase-2-dependent IL-6 expression in Human Cardiac Fibroblasts 曾惠卿 [1,2], 林志中 [3], 王震宇 [2], 楊建中 [4,5], 蕭立德 [3], 楊春茂 [1,2,3,6*] Hui-Ching Tseng[1], Chih-Chung Lin[2], Chen-Yu Wang[1], Chien-Chung Yang[3], Li-Der Hsiao[2], Chuen-Mao Yang[1,2,4*]
PH045	Effect of Andrographolide on cytosolic pH regulation, cellular migration and apoptosis in human cervical cancer cells 郭旆均 , 游添傑 , 趙士齊 , 羅時鴻 Pei-Chun Kuo, Tien-Chieh Yu, Shih-Chi Chao, Shih-Hurng Loh
PH046	Compound AJ induces apoptosis and autophagy cell death in human oral cancer cells and in zebrafish xenograft model. 周安婕 [1]，郭宥希 [1]，林吟品 [1]，李建興 [1,2] An-Jie Jhou, Yu-Hsi Kuo, Yin-Pin Lin ,Chien-Hsing Lee
PH047	Epigenetic HDAC Regulation of Fucoidan in Human Renal Cell Cancer 林暐棟 , 楊軍建 , 林于傑 , Valens Munyembaraga, 田堉宏 , 陳永佳 Wei-Tung Lin, Chun-Chien Yang, Yu-Chieh Lin, Valens Munyembaraga, Yu-Hung Tian, Yung-Chia Chen
PH048	Forest-Gardening Therapy Research on Immunity and Prevention of Dementia 洪昆源 吳孟玲 陳舜英 蔡景株 吳芯慧 Kun-Yuan Hong, Meng-Ling Wu2, Shun-Ying, Chen3, Ching-Chu Tsai4, Hsin-Hui Wu1
PH049	Antihyperglycemic Action of Sulforaphane in Diabetic Mice 吳虹儒 [1], 李雅芳 [1](共同第一作者), 柯順耀 [2], 林志宏 [3], 紀宗呈 [4*] Hung-Ju Wu[1],Ya-Fang Li[1](Co First Author),Shun-Yao Ko[2], Chih-Hung Lin[3],Tzong-Cherng Chi[4*]
PH050	Zika virus Crosses Placental Barrier and Blood Brain Barrier by Disrupting Tight Junction Proteins 邱祺芬 , 史曼均 , 林宜玲 , 兵岳忻 Chi-Fen Chiu, Yogy Simanjuntak, Yi-Ling Lin, Yueh-Hsin Ping
PH051	Novel HADC8 Inhibitor WK2-16 Therapeutically Targets Lipopolysaccharide-induced Mouse Model of Neuroinflammation and Microglial Activation through Downregulation of STAT Signaling 林凡立 [1,2]，蕭哲志 [2]，顏敬倫 [2]，郭育誠 [2]，鄭幼文 [3]，黃偉展 [4]，康照洲 [1,*] Fan-Li Lin[1,2], George Hsiao[2], Jing-Lun Yen[2], Yu-Cheng Kuo[2], Yu-Wen Cheng[3], Wei-Jan Huang[4], Jaw-Jou Kang[1,*]
PH052	Cytokinome landscape in 19 human cancer types 黃順清，張偉嶠 Henry Sung-Ching Wong, Wei-Chiao Chang
PH053	Translational Study of Rhodiola Crenulata Extract on Transmembrane pH Regulators and Cellular Proliferation in Human Non Small Cell Lung Cancer Tissues and Cells 林于珊、李世裕、黃敍愷、李世俊、羅時鴻 Yu-Shan Lin, Shih-Yu Lee, Hsu-Kai Huang, Shih-Chun, Lee, Shih-Hurng Loh,
PH054	ZEB1-mediated Drug Resistance and Glucose Dependence in Human Breast Cancer Cells 劉芳妤 , 王笙帆 , 陳孟賢 , 曾令民 , 洪宏緒 , 李新城 Fang-Yu Liu, Sheng-Fan Wang, Meng-Shian Chen, Ling-Ming Tseng , Hung-Hsu Hung, Hsin-Chen Lee

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PH055	Untangling Serine-Threonine Kinase 40 (STK40)-MAPK Interaction in Cell Migration 曾亭禎 , 尤鈴雅 , 蔡佳蓉 , 林軒兆 , 顏爾言 , 黃婉嫚 , 王育璿 , 陳坤麟 , 蔡丰喬 Ting-Jen Tseng[1], Ling-Yea Yu[1], Chia-Jung Tsai[3,4], Hsuan-Chao Lin[2], Er-Yen Yen[5], Wan-Chen Huang[6], Yu-Shiuan Wang[6], Kun-Lin Chen[7] and Feng-Chiao Tsai[1,8]
PH056	Investigating the C-terminal of KCNT1 to see its regulatory effects on K+ & Ca2+ homeostasis, inspired from a patient with Brugada syndrome 蔡沛儒、蔡蔓綺、莊志明、潘建源、蔡丰喬 Pei-Ju Tsai, Man-Chi Tsai, Jyh-Ming Juang, Chien-Yuen Pan, and Feng-Chiao Tsai
PH057	Exploring the therapeutic potential of vitamin D supplementation for Alzheimer’ s disease 林芳妤 , 蕭雅心 Fang-Yu Lin, Ya-Hsin Hsiao
PH058	iTRAQ-based quantitative proteomic analysis of differentially expressed proteins in cisplatin-resistant urothelial carcinoma 林振頡 [1], 羅浩倫 [2], 黃俊杰 [3], 李奈倫 [4], 林新傑 [2], 陳若瑛 [3], 蘇祐立 [1] Jen-Jie Lin[1], Hao-Lun Luo[2], Chun-Chieh Huang[3], Nai-Lun Lee4, Xin-Jie Lin[2], Jo-Ying Chen[3], Yu-Li Su[1]
PH059	ROS species activity and chemical analysis of processing Scutellaria biacalensis 廖培茹 [1,5], 梁文俐 [1], 張家 [1], 吳明順 [2,3]*, 楊玲玲 [1,4]* Pei Ru Liau[1,5], Wen-Li Liang[1], Chia-Wei Chang[1], Ming-Shun Wu[2,3]*, and Ling Ling Yang[1,4]*
PH060	Role of TRPM8 in CGRP Release from Primary Cultured Neurons of Trigeminal Ganglia of the Rat 陳允寧 , 陳世彬 , 嚴錦城 Yun-Ning Chen[1], Shih-Pin Chen[2,3]*, Jiin-Cherng Yen[1]*
PH061	Neuroprotective effect of ellagic acid on LPS-induced neuroinflammation 劉昱伶、陳日榮、林滿玉 Yu-Ling Liu,JJ Chen, Anya Maan-Yuh Lin
PH062	Apelin Stimulates Angiogenesis in Rheumatoid Arthritis Synovial Fibroblasts via the Angiopoietin 1 Dependent Pathway 鐘佑翰 , 劉軒誌 , 湯智昕 You-Han Zhong, Shan-Chi Liu, Chih-Hsin Tang
PH063	Study of Monascus Ruber Secondary Metabolites Using Heterologous Expression System 葉旭華 [1,2], 王灃瑢 [3], 江一民 [2,4], 王嘉駿 [4], 李冠漢 [1,2]*, 張書林 [1,3]* Hsu-Hua Yeh[1,2], Jing-Rong Wang[3], Yi-Ming Chiang[2,4], Clay C. C. Wang[4], Kuan-Han Lee[1,2]*, Shu-Lin Chang[1,3]*
PH064	Establish a Model of Intracellular pH Regulation Mechanism on Pluripotency in Human Induced Pluripotent Stem Cells 趙士齊 [1,2], 李曉屏 [1,4], 武國璋 [1,4], 戴念梓 [1,5], 羅時鴻 *[1,3] Shih-Chi Chao[1,2], Shiao-Pieng Lee[1,2] Gwo-Jang Wu[1,3], Niann-Tzyy Dai[1,4], Shih-Hurng Loh*[1,2]
PH065	Role of AKT inhibition in hemin-induced neurotoxicity in primary cortical neurons Hui-Ju Huang, Anya Maan-Yuh Lin
PH066	Role ERK in Hemorrhagic Stroke in vivo 陳冠伶、黃卉如、林滿玉 Kuan-Ling Chen, Hui-Ju Huang, Anya Maan-Yuh Lin
PH067	"TXNDC5 Is a Novel Therapeutic Target of Atrial Fibrosis and Fibrillation 吳佩蓁 , 林泊辰 , 葉勇信 , 陳偉踐 , 楊鎧鍵 Pei-Chen Wu, Bo-Chen Lin, Yung-Hsin Yeh, Wei-Jan Chen, Kai-Chien Yang
PH068	P2X7 mediates lipid accumulation in differentiated adipocytes: role of NLRP3 inflammasome and browning effect 鄭景元 , 陳佑華 , 黃國晉 , 林琬琬 Ching-Yuan Cheng, You-Hua Chen, Kuo-Chin Huang, Wan-Wan Lin
PH069	Ubiquitin-conjugating enzyme E2 B regulates the sensitivity to alkylating agents in human nasopharyngeal carcinoma cells by modulating the ubiquitination of O6-methylguanine-DNA methyltransferase 徐詩涵，陳尚鴻，郭靜娟，李建逢，蕭聖諺，張俊彥 Shih-Han Hsu, Shang-Hung Chen, Ching-Chuan Kuo, Chien-Feng Li, Sheng-Yen Hsiao, and Jang-Yang Chang

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PH070	Functional Effects of let-7g Expression in Colon Cancer Metastasis 張哲邁、黃順清、黃千瑜、許文俐、邱繡瑾、蔡耀庭、王照元、張偉嶠。 Che-Mai Chang, Henry Sung-Ching Wong, Chien-Yu Huang, Wen-Li Hsu, Siou-Jin Chiu, Yao-Ting Tsai, Jaw-Yuan Wang and Wei-Chiao Chang.
PH071	Positive Modulation of the GABAA Receptor α6 Subtype in Trigeminal Ganglia Alleviate Nitroglycerin-induced Migraine-like Grimaces in Mice 曾泓叡 [1], Werner Sieghart [4], Margot Ernst [4],Daniel E.Knutson [5],James Cook [5], 范碧娟 [3] , 邱麗珠 [1,2,6*] Hung-Ruei Tzeng [1], Werner Sieghart [4], Margot Ernst [4], Daniel E. Knutson [5], James Cook [5], Pi-Chuan Fan[3] and Lih-Chu Chiou [1,2,6*]
PH072	Solanesol inhibits oxidant stress and genotoxicity induced by CPF in RAW264.7 cells. 李易珈 [1], 李宣信 [1], 關宇翔 [2] Yi-Jia Lee[1], Shiuan-Shinn Lee[1], Yu-Hsiang Kuan[2]
PH073	Is Allopregnanolone an Antidepressant? Studies on Typical Antidepressant Screening Models 傅郁甄 [1], 李明達 [2], 李欣蓉 [2,3], 邱麗珠 [1,2,3*] Yu-Chen Fu[1], Ming Tatt Lee[2], Hsin-Jung Lee[2,3], Lih-Chu Chiou[1,2,3,4*]
PH074	The therapeutic effects studies of human placenta choriodecidual-derived mesenchymal stromal cells (pcMSCs) in LPS-induced acute lung injury animal model 吳孟學 , 吳佳玲 , 朱清良 , 林泰元 Meng-Shiue Wu, Chia-Ling Wu, Ching-Ling Chu, Thai-Yen Ling

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AN017	The Therapeutic Effect of Astaxanthin on Neuropathological Changes of Cerebral Cortex in FASD Rats 王奕婷 [1]、陳睦軒 [2]、王慈娟 [3]、曾國藩 [4]、陳儷今 [4]、陳建榮 [1] Yi-Ting, Wang[1], Mu-Hsuan Chen[1], Tsyr-Jiuan Wang[2], Guo-Fang Tseng[3], Li-Jin Wang[3], Jeng-Rung Chen[1]
AN018	Effects of 72-hour sleep deprivation on heterozygous Disc1 mutant mice 曹志瑜 , 李立仁 Chih-Yu Tsao Li-Jen Lee
AN019	Interstitial cystitis: bladder ultrastructural characteristics and their association with clinical conditions 何翰蓁 , 張嘉峰 , 江元宏 , 許永祥 , 郭漢崇 Han-Chen Ho, Jia-Fong Jhang, Yuan-Hong Jiang, Yuan-Hsiang Hsu, Hann-Chorng Kuo
AN020	Risk assessment of rehospitalization of patients with ischemic stroke using hypolipidemic drugs 陳侃亨 , 朱基銘 Kan-Heng Chen, Chi-Ming Chu
AN021	Study of Using Umbilical Cord Mesenchymal Stem Cells to Treat Type 1 Diabetes Mellitus Animal 呂鈺芊 [1], 蕭鎮源 [2,3], 徐佳福 [4], 陳天華 [1,5,*], 蔡佩君 [1,6,*] Yu-Qian Lu[1], Chen-Yuan Hsiao[2,3], Jia-Fwu Shyu[4], Tien-Hua Chen[1,5,*], Pei-Jiun Tsai[1,6]
AN022	Aggressive behavior in forebrain-specific Ctgf knockout mice 張荷清、李立仁 * Ho-Ching Chang, Li-Jen Lee*
AN023	The study of Toona sinensis root extracts-induced cancer cell death in renal cell carcinoma 謝巧玲 , 陳永佳 Chiao-Ling Hsieh,Yung-Chia Chen
AN024	Phenotypic characterization of mice lacking exons 4-13 of Disc1 gene 蕭佩芬 , 李立仁 Pei-Fen Siow, Li-Jen Lee
AN025	The change of pancreas islets & insulin concentration of swine induced diabetes with streptozotocin 何林佳 , 李以琳 , 朱慈暉 , 林怡君 , 陳柏瀚 , 蕭鎮源 , Lin-Chia Ho[1], Yi-Lin Lee[1], Tzu-Hui Chu[2], Yi-Jun Lin[2], Bo-Han Chen[2], Cheng-Yuan Hsiao[3], Jia-Fwu Shyu[2*]

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AN026	Artocarpin Suppresses TGF-β1-Induced Epithelial-to-Mesenchymal Transition, Migration and Invasion of A549 Lung Cancer Cells 葉綺真 [1,4], 劉炯輝 [3,4], 林冠廷 [2,4], 廖玟潔 [3,4], 林含貞 [5], 藍琴臺 [3,4], 曾拓榮 [3,4], 廖智凱 [3,4]* Chi-Chen Yeh[1,3], Chiung-Hui Liu[3,4], Kuan Ting Lin[2,3], Wen-Chieh Liao[3,4], Han-Chen Lin[5], Chyn-Tair Lan[3,4], To-Jung Tseng[3,4], Chih-Kai Liao[3,4]*
AN027	The role of YAP/TAZ in tenogenesis 王俞捷 , 王仰高 Yu-Chieh Wang, Yang-Kao Wang
AN028	PT Anatomy Program of Tzu Chi University 葉姿吟、曾國藩、劉培新 * Tzu-Yin Yeh, Guo-Fang Tseng, Pei-Hsin Liu*
AN029	The Effects of Surgical Menopause on Striatal Medium Spiny Neurons 陳儷今 , 江至文 , 王玲嘉 , 王曰然 , 曾國藩 Li-Jin Chen, Chin-Wen Chiang, Ling-Chia Wang, Yueh-Jan Wang, Guo-Fang Tseng
AN030	Transplantation of Insulin-producing Cells from Human Bone Marrow Mesenchymal Stem Cells to Treat Streptozotocin-induced Diabetic Rats 陳韋佑 [1], 蕭鎮源 [2,3], 徐佳福 [4], 陳天華 [1,5,*], 蔡佩君 [1,6,*] Wei-Yu Chen[1], Chen-Yuan Hsiao[2,3], Jia-Fwu Shyu[4], Tien-Hua Chen[1,5,*], Pei-Jiun Tsai[1,6,*]
AN031	Evaluating the practice of dissection preview worksheet in Human Gross Anatomy learning score 李立仁 Li-Jen Lee
AN032	Gross anatomy dissection-assisted ultrasound learning: Focusing on heart and liver 張簡世新、楊子孟、哈多吉、鍾敦輝、蔡怡汝 Shih-Hsin Chang Chien, Tzu-Meng Yang, Dorji Harnod, Tun-Hui Chung, Yi-Ju Tsai

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BC046	Serum Amyloid A (SAA) and Its Oligomers Are Potential Plasma Biomarkers for Hepatocellular Carcinoma 吳金潾 [1,2], 陳韻如 [1*] Jin-Lin Wu[1,2], Yun-Ru Chen[1*]
BC047	Inhibitory Effect And Mechanism Of 5-methoxytryptophan On Renal Fibrosis Induced By Beta-transformation Growth Factor 周似蓁、黃世明 Ssu-Jen Chou, Shih-Ming Huang
BC048	Aged garlic ethanol extract induced γ -globin expression in K562 cells through the antioxidant factor Nrf2 邱莉嫕，Wulan Anggestia，林冠旻，黃尉東，李泰林 Li-Ying Chiou , Wulan Anggestia, Guan-Min Lin , Wei-Tung Huang and Tai-Lin Lee
BC049	Mechanism and Application of Anti-cancer Effects of Pharmacological L-Ascorbic Acid 吳采葶 , 黃世明 Tsai-Ming Wu, Shih-Ming Huang
BC050	Effect of A33T and V212M polymorphism on the structure and function of human 4-hydroxyphenylpyruvate dioxygenase 倪孟元 李惠珍 Meng-Yuan Ni and Hwei-Jen Lee
BC051	Effect of F364I/F368Y and F359L on the binding and catalytic function of human 4-hydrophenylpyruvate dioxygenase 蔡東圻 , 李惠珍 Tung-Chi Tsai, Hwei-Jen Lee

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BC052	Hypoxia Inducible Factor 1α and c- MYC Regulate Malic Enzyme 2 in Melanoma 劉億祥 , 張永龍 Yi-Xiang Liu , Yung-Lung Chang
BC053	Non-Polarized mpkCCD Cell Model for Aquaporin-2 Phosphorylation and Membrane Trafficking Study 詹子嫻 , 余明俊 Tzu-Hsien Chan and Ming-Jiun Yu
BC054	Small GTPase Rab7 Mediates Aquaporin-2 Recycling and Apical Trafficking 王維苓 , 楊展維 , 黃潔儀 , 余明俊 Wei-Ling Wang, Chan-Wei Yang, Kit Yee Wong, and Ming-Jiun Yu
BC055	Basic fibroblast growth factor modulates the levels of XRCC5 to enhance doxorubicin resistance in chondrosarcoma 陳冠宇 陳立洲 陳瑞傑 KUAN YU CHEN LI CHOU CHEN JUI CHIEH CHEN
BC056	The Effect of an Amyloid Modifier SERF1a on Amyloid-β Fibrillization 蔡天穎 [1,2], 陳韻如 [1*] Tien-Ying Tsai[1,2], Yun-Ru (Ruby) Chen[1*]
BC057	Characterization of the structure and function of Thyroid hormone responsive spot 14 protein 洪湘雲、李惠珍 Shiang-Yun Hung, Hwei-Jen Lee
BC058	The lysine methyltransferase SMYD promotes prostate cancer cell growth, invasion and progression 黃晨鋐 林欣賢 李明學 Chen-An Huang, Hsin-Hsien Lin and Ming-Shyue Lee
BC059	The Role of Malic Enzyme in MYC Oncogene-Driven Glutamine Metabolism 陳嘉文 , 張永龍 Jia-Wen Chen, Yung-Long Chang
BC060	Hydrogen peroxide repetitive treatment induces stress memory and long-term chilling tolerance in mung bean 莊玉鳳，莊旻軒，黃怡雯，洪淑嫻，游志文 Yu-Feng Chuang, Min-Hsuan Chuang, Yi-Wen Huang, Shu-Hsien Hung, Chih-Wen Yu
BC061	ATP-binding Activity of Hepatitis C Virus NS3 Helicase Is Required for NS5A Hyper-phosphorylation 林佩箴 , 江卓翰 , 賴彥伶 , 余明俊 Pei-Chen Lin, Cho-Han Chiang, Yen-Ling Lai, Ming-Jiun Yu
BC062	Arsenic Trioxide Induces Apoptosis in Bcr-Ab11-Positive Leukemia Cells via p38 MAPK- and AKT-Mediated MCL1 Downregulation 黃佳慧 , 張榮賢 Chia-Hui Huang , Long-Sen Chang
BC063	VPS34 heterotypic ubiquitination governed by UBE3C and TRABID regulates autophagy and proteostasis 陳鈺軒，黃資彧，蕭湘蓉，唐弘文，陳光超，陳瑞華 Yu-Hsuan Chen, Tzu-Yu Huang, Hsiang-Jung Hsiao, Hong-Wen Tang ,Guang-Chao Chen, Ruey-Hwa Chen.
BC064	The impacts of chronic wounds on matriptase and prostasin 洪于馨 , 張舜程 , 王正康 Yu-Sin Hung, , Shun-Cheng Chang, and Jehng-Kang Wang
BC065	Biochemical and single-molecule analyses reveal a novel mechanism of Pif1 in regulating Cdc13 binding on telomere 李敏暄，林易運，李弘文，林敬哲 Min-Hsuan Li, Yi-Yun Lin, Hung-Wen Li, Jing-Jer Lin
BC066	A Novel Regulatory Mechanism of p38 MAPK by Protein Arginine Methylation Impacts Erythroid Differentiation 劉玫吟 , 華尉愷 , 林蔚靖 * Mei-Yin Liu, Wei-Kai Hua, Wey-Jinq Lin

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BC067	Characterization and mutational analyses of exo-beta-1,3-glucanase from Dekkera bruxellensis 李貞誼 , 郭宜蓓 , 羅翊禎 , 徐俊森 Chen-Yi Lee, Yi-Pei Kuo, Yi-Chen Lo, Chun-Hua Hsu
BC068	Live-cell Imaging of Ectopic ATP Synthase Trafficking 廖玉潔 , 張怡雯 , 侯恁慈 , 洪詣軒 , 黃宣誠 , 阮雪芬 Y-Geh Liaw, Yi-Wen Chang, Jen-Tzu Hou, Yi-Hsuan Hung, Hsuan-Cheng Huang , Hsueh-Fen Juan
BC069	Rab37-Mediated IL-6 Secretion in the Polarization of Macrophages 楊豐銘 [1], 郭懿瑩 [1], 王憶卿 [1*] Fong-Ming Yang[1], I-Ying Kuo[1] , Yi-Ching Wang[1*]
BC070	Development of Therapeutic Small Molecule Agonist Drugs Targeting BDNF Receptor TRKB for Alzheimer's Disease Treatment-CRE Motifs Reporter and Aβ -GFP Cellular Models 鄧伃珊 , 林德嫻 , 孫英傑 , 李桂楨
BC071	Gallic Acid-Reduced Gold Nanoparticles Suppress High glucose-Induced Matrix Metalloproteinase-1 Expression in Human Dermal Fibroblasts 鄧伃珊 , 林德嫻 , 孫英傑 , 李桂楨 Yu-Shan Teng, Te-Hsien Lin, Ying-Chieh Sun, Guey-Jen Lee-Chen
BC072	Tumor Necrosis Factor-a- Induced p300-Mediated NF-kB Acetylation, Leading to Matrix Metalloproteinase-1/-3 (MMP-1/-3) Up-Regulation in Human Dermal Fibroblasts 盧宜恩 , 陳瑩容 Yi-En Lu, Ying-Jung Chen
BC073	Methylomic analysis identifies novel epigenetic biomarkers in Ankylosing Spondylitis 黃文隆 [3], 呂明錡 [1,2], 劉素勤 [1,2], 葉智傑 [3], 周建良 [3], 賴寧生 [1,2], 陳永恩 [3*] Wen-Long Huang[3], Ning-Sheng Lai [1,2], Su-Qin Liu [1,2], Chih-Chieh Yeh [3], Jian-Liang Chou [3], Ming-Chi Lu [1,2], Michael W. Y. Chan [3*]
BC074	Discovery of TCM compounds for inhibiting acute myeloid leukemia 陳佳旻 , 張培均 Chia-Min Chen, Pei-Chun Chang
BC075	Antioxidant activity of various extracts from Lindera glauca (Sieb. et Zucc.) Bl and Zanthoxylum ailanthoides 林妤庭 [1]、楊正宏 [2]、莊麗月 [*1] Yu-Ting Lin[1], Cheng Hong Yang[2], Li-Yeh Chuang [*1]
BC076	Biochemical Characterization of Clostridium difficile DNA Polymerase I 巫祖穎 , 陳呈堯 Tsu-Ying Wu, Cheng-Yao Chen
BC077	The Potential Dual-target Inhibitors for HER2/HSP90 Proteins from Traditional Chinese Medicine 陳芷瑩 , 張培均 , 蔡進發 Chih-Ying Chen, Pei-Chun Chang*, Jeffrey J. P. Tsai
BC078	Synthesis of Progesterone-α-glycosides Targeting Breast Cancer Cells Using Glycosyltransferase HP0421 from Helicobacter pylori 駱群 , 周封白 , 吳東昆 Chun Lo Feng-Pai Chou Tung-Kung Wu
BC079	Glycosyl-Modifications of Drug Leads throughout Molecular Probing of Enzymes for Substrate Promiscuity on a Compound Library Tzu-Yi Chan, Chien-Pao Weng, Shu-Han Xu, Hsien-Tai Chiu
BC080	A Facile Method to Improve Heterologous Gene Expressions throughout Computational Reprogramming and Analysis of Messenger RNA Sequences Da-Wen Fang, Chien-Pao Weng, Ting-Wei Shu, Hsien-Tai Chiu
BC081	Generic High Yield Serum-Free Conditions for Ex Vivo Preparation of Chimeric Antigen Receptor (CAR)-T Cells 蘇宥樺 , 冷霈如 , 盧信霖 , 紀威光 Yu-Hua Su , Pei-Ju Leng, Hsin-Lin Lu, Wei-Kuang Chi

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BC082	Understanding the Molecular Interaction of TDP-43 with Amyloid-β in Alzheimer's Disease. 陳容碩、張婷宇、陳韻如 Rong-Shuo Chen, Ting-Yu Chang, Yun-Ru Chen
BC083	Induction Apoptosis Of Erinacine A In Human Colorectal Cancer Cells Involving The Expression Of TNFR, Fas And Fas Ligand Via The JNK Signaling Pathway 李克釗 [1,2]、李錦輝 [3]、郭星君 [4,5*] Ko-Chao Lee[1,2], Kam-Fai Lee[3], Hsing-Chun Kuo [4,5*]
BC084	Establishment of anti-TMPRSS2 antibody for diagnostic and treatment in prostate cancer. 閻大立、李明學 YEN, TA-LI Ming-Shyue Lee
BC085	Antioxidant potential and phytochemical composition of extracts obtained from Maesa formosana Mez by supercritical fluid extraction 黎韋廷、楊正宏、莊麗月 Wei-Ting Li[1], Cheng Hong Yang[2], Li-Yeh Chuang [*1]
BC086	Characterizing the solvent producing Clostridium acetobutylicum HOL1 on sugar utilization with mimic the lignocellulosic hydrolysates as fermentative substrate. 陳德宇，楊逸善，謝佳雯 Te-Yui Chen, Yi-Shan Yang, Chia-Wen Hsieh

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海報編號	論文題目
MI008	Potential tumor suppressor gene FOXF1 promote G1 cell cycle arrest and inhibits tumor growth in lung cancer 詹淳浩，魏鴻健，鄧文炳 Chun-Hao Chan Hong-Jian Wei Win-Ping Deng
MI009	Biological Evaluation of a Chitosan-based Microparticle in a Hepatocellular Carcinoma Bearing Rat Model 馮冠豫，李佳哲，李庚穎，陳昭政，王信二 Guan-Yu Feng, Jia-Je Li, Geng-Ying Li, Chao-Cheng Chen, Hsin-Ell Wang
MI010	Biological Characterization of Nicotinamide/Picolinamide Derivatives as Novel Melanoma Diagnostic Probes 陳楊翊，羅逸軒，李佳哲，張文議，陳昭政，林明賢，劉仁賢，王信二 Yang-Yi Chen, Yi-Hsuan Lo, Jia-Je Li, Wen-Yi Chang, Chao-Cheng Chen, Ming-Hsien Lin, Ren-Shyan Liu, Hsin-Ell Wang
MI011	Use cofilin-1 as the biomarker for evaluating the efficacy of radiation therapy 吳孟修，張淳湲，李易展 Meng-Hsiu Wu, Chun-Yuan Chang, Yi-Jang Lee
MI012	MEDICAL DATA AUGMENTATION USING GENERATIVE ADVERSARIAL NETWORKS 林英嘉 , 鍾翊方 (指導老師) Ying-Jia Lin, I-Fang Chung
MI013	The mTOR Inhibitor Enhances Radiosensitivity of Oral Cancer Cells Through Inhibiting Cancer Stem Cell Characteristics. 傅勝騰 [1], 柯建志 [1], 劉仁賢 [2,3], 謝雅茹 [*1] Sheng-Teng Fu[1], Chien-Chih Ke[1], Ren-Shyan Liu[2,3], Ya-Ju Hsieh[*1]
MI014	The Roles of GSKIP in Metastatic Ability and Radioresistance of Oral Squamous Cell Carcinoma 蔡明勳 [1,2], 戴曉婷 [3], 柯建志 [1,2], 謝雅茹 [1,2] Ming Hsun Tsai[1,2], Hsiao-Ting Tai[3], Chien-Chih Ke[1,2], Ya Ju Hsieh[1,2*]

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CM058	Investigation of Molecular Mechanisms in Desensitizing Sunitinib Cytotoxicity to Glioblastoma 李宜庭 [1], 何國澔 [1], 陳鵬旭 [1], 陳顧中 [12*] Yi-Ting Lee[1], Kuo-Hao Ho[1], Peng-Hsu Chen[1], Ku-Chung Chen[12*]
CM059	Effect of Aqueous from Callicarpa on Increasing the Sensitivity of Human lung adenocarcinoma cells to Cisplatin 黃意涵 , 陳健祺 , 王怡棻 , 蘇淑真 , 徐慧雯 Yi-Han Huang , Jian-Chyi Chen , Yi-Fen Wang , Shu-Jem Su , Huey-Wen Shyu
CM060	Animal Safety Assessment of Novel Ti6Al4V Bone Plates with Surface Modification Grafting by Diamond Like Carbon and Bone Morphogenetic Protein 2 李季庭，謝承錡，連水養，廖淑娟，陳芝穎，古雁寧，王淑紅，鄒錫凱，蔡明勳 Chi-Ting Li, Cheng-Chi Hsieh, Shui-Yang Lien, Shu-Chuan Liao, Zhi-Ying Chen, Yan-Ning, Gu, Sue-Hong Wang, Hsi-Kai Tsou, Ming-Shiun Tsai
CM061	Application of Single B Cell for Fully Human Monoclonal Antibodies Screening and Analysis of Human Antibody Responses to Klebsiella pneumoniae 周玉萍 , 何宜恬 , 阮雅莛 , 艾麗霜 , 蔡宜珏 , 李書宇 Yu-Ping Chou, Yi-Tian He, Ya-Ting Juan, Li-Shuang Ai, Yi-Jiue Tsai, Shu-Yu Lee
CM062	Anti-cancer Effect of Callicarpa Extract and its Mechanisms in H1299 Human Lung Adenocarcinoma Cells 蘇祉云 [1], 陳健祺 [2], 王怡棻 [1], 李家宜 [3], 徐慧雯 [1,*] Chih-Yun Su [1], Jian-Chyi Chen [2], Yi-Fen Wang [1], Chia-Yi Lee [3], Huey-Wen Shyu [1,*]
CM063	Toxic effects of nephrotoxin on renal tubular epithelial Shu-Cing Wu[1], Chyou-Wei Wei[1*] Shu-Cing Wu[1], Yu-Ling Chou[2], Sheng-Min Huang[2], Yu-Heng Lin[2], Hsiang-Hsian Chen[2], Chyou-Wei Wei[1*]
CM064	Lactose oxidase, a novel zinc protein from Myrmecridium flexuosum NUK-21 林順富，李政格，鍾宜浪 Shuen-Fuh Lin · Cheng-Ke Li · Yi-Pei Chung
CM065	Transcription factor Ets-1 is downregulated in fibrotic livers and mediates antioxidant signaling in regenerating hepatocytes 陳柏翰 , 林宇駿 , 李伯皇 , 戴宗玄 , 孫灼均 , 洪子茗 , 蔡明憲 , 高英賢 Po-Han Chen, Yu-Chun Lin, Po-Huang Lee, Tzong-Shyuan Tai, Cheuk-Kwan Sun, Tzu-Min Hung, Ming-Shian Tsai, Ying-Hsien Kao
CM066	Identification of gC1qR-VP4 interactome during EV-A71 infection 陳妍如 , 王憲威 Yen-Ju Chen, Shainn-Wei Wang
CM067	Targeted TPX2 lead to Apoptosis Resulted in Chromosome Segregation Error in Human Nasopharyngeal Cancer Cell 蘇性豪 [1#], 吳秀容 [2#], 潘弘偉 [3*] Hsing-Hao Su [1#], Shiou-Rong Wu [2#], Hung-Wei Pan [3*]
CM068	The Potential Effective Mechanisms of Dinaciclib Treatment in Colon Cancer Cells 許詔文 [1#], 黃冠菁 [2#], 潘弘偉 [3*] Chao-Wen Hsu [1#], Guan-Jin Huang [2#], Hung-Wei Pan [3*]
CM069	Sinomenine inhibits invasion of human lung cancer cell through downregulation of miR-21 and MMPs expression 廖苡晴、趙珮妤、陳品晟 Yi-ching Liao, Pei-yu Chao, Pin-shern Chen
CM070	Flunarizine, a drug approved for treating migraine and vertigo, exhibits cytotoxicity, and induces apoptosis and autophagy in GBM cells 林函霈 [1]，黃心怡 [1]，趙崇男 [2]，陳世翰 [3]，方瓊瑤 [1] Han-Pei Lin[1], Hsin-Yi Huang[1], Chun-Nun Chao[2], Shih-Han Chen[3], Chiung-Yao Fang[1]
CM071	Using Neurons Differentiated from Mouse Embryonic Stem Cells as a Drug Screening Model 蘇裕仁 , 林炎壽 Yu-Ren Su, Yenshou Lin

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CM072	Early Exposure of Ceramides during Neonatal Stage Affects Memorial Behavior 葉佳旻 , 孫筠雅 , 林炎壽 Chia-Min Yeh, Yun-Ya Sun, Yenshou Lin
CM073	Differential Effect of Hepatoma-Derived Growth Factor on Tight Junction Function of Human Retinal Pigment Epithelium ARPE19 Cells under Low and High Glucose Conditions 吳毓瑛 [1], 蔡雅竹 [1], 張慧柔 [1], 高英賢 [2*] Yu-Ying Wu[1], Ya-Chu Tsai[1], Huoy-Rou Chang1, Ying-Hsien Kao[2*]
CM074	A Biomarker Potential of EZH2 For Outcome Prediction And Treatment Selection In Oral Cancer Patients 林如胤 , 紀承霖 , 林宏益 , 洪世凱 Ru-Inn Lin [1], Chen-Lin Chi[2,3], Hon-Yi Lin [1,3] ,Shih-Kai Hung[1,3]
CM075	Investigate the Role of the B55 δ Regulatory Subunit of Protein Phosphatase 2A in Regulating Phosphorylation and Levels of STOML2 楊庭伃 , 蔣輯武 * Ting-Yu Yang and Chi-Wu Chiang*
CM076	The Effect of Genetic Substitution of Nonstructural Protein 1 of Dengue Virus on Biological Properties 劉昱安 , 王貞仁 Yu-An Liu and Jen-Ren Wang
CM077	Small molecule drug (CN7) attenuates the catabolic effects and preserves type 2 collagen synthesis in chondrocytes 吳雅雯 , 謝宗勳 , 陳易廷 , 江若瑜 , 劉峰誠 , 王誌謙 , 彭奕仁 Ya-Wen Wu, Tsung-Hsun Hsieh, Yi-Ting Chen, Jo-Yu Chiang, Feng-Cheng Liu, Chih-Chieh Wang, Yi-Jen Peng
CM078	Interleukin-26 regulates catabolism and inflammation in hypoxic condition associated with hypoxia-inducible factor-1 alpha and STAT3 in osteoblasts 江若瑜 , 吳雅雯 , 謝宗勳 , 陳易廷 , 劉峰誠 , 王誌謙 , 彭奕仁 Jo-Yu Chiang, Ya-Wen Wu, Tsung-Hsun Hsieh, Yi-Ting Chen, Feng-Cheng Liu, Chih-Chieh Wang, Yi-Jen Peng
CM079	Study on the Lipoprotein/Apolipoprotein Profiles in Leukemia Before Chemotherapy 謝淑芳 , 孫宏羽 , 楊孔嘉 Shu-Fang Hsieh, Hung-Yu Sun, Kung-Chia Young
CM080	Melanocytes Activities and Its Genes Expression of Tilapia (Oreochromis mossambicus) were Affected by Culture Length with -Arbutin In Vitro 張羽萱 *、李采諭、汪潔、莊穎華、李泰林、黃尉東 # Yu-Hsuan Chang*, Tsai-Yu Lee, Jie Wang, Ying-Hua Chuang, Tai-Lin Lee, and Wei-Tung Huang#
CM081	Cucurbitacin I induce cell cycle arrest in G2 phase and cell program death apoptosis on primary human colorectal cancer cell lines 趙均釩、徐怡強、蔡江欽 Chun-Fan Chao , Yi-Chiang Hsu , Chiang-Chin Tsai
CM082	The role of KIF12 in colorectal cancer stem cell 賴韻如、謝宜翔、李丹玉 Yun-Ju Lai, Yi-Siang Sie, Tan-Yu Lee
CM083	The B55δ Regulatory Subunit of Protein Phosphatase 2A Inhibits Proliferation but Promotes Motility of Colorectal Cancer Cells 朱沛容，蔣輯武 * Pei-Jung Chu and Chi-Wu Chiang*
CM084	ACK1 regulates the proliferation of oral squamous cell carcinoma cells 彭宣翔 , 楊浩勤 , 袁大鈞 Hsuan-Hsiang Peng, Hao-Chin Yang, Ta-Chun Yuan
CM085	In Situ Electroporation of Human Mesenchymal Stem Cells using AC Electric Fields 傅士榮 , 郭毅昕 , 羅俊民 Shyh-Rong Fuh, Yi-Hsin Kuo, Chun-Min Lo

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TX041	Glycolic acid, an alpha hydroxyl acid, attenuates UVB-induced matrix metalloproteinases 9 and type I procollagen degradation in mouse skin via MAP kinase pathway 湯曉君 [1], 廖沛昀 [2], 楊仁宏 *[3], 湯麗君 [4]* Sheau-Chung Tang[1], Pei-Yun Liao[2], Jen-Hung Yang*[3], Lee-Chun Tang*[4]
TX042	Trichostatin A, a Histone Deacetylase inhibitor, Induces Synergistic Cytotoxicity with Chemotherapy via Suppression of Raf/MEK/ERK Pathway in Urothelial Carcinoma 郭冠麟，林維洲，許富順，劉興華，孫家棟，石宗憲，張宏江，蔡育傑，林明潔，吳君泰，郭昱，周博敏，廖世明，楊劭苹，洪若瑜，黃國皓 Kuan-Lin Kuo, Wei-Chou Lin, Fu-Shun Hsu, Shing-Hwa Liu, Chia-Tung Shun, Chung-Sheng Shi,Hong-Chiang Chang,Yu-Chieh Tsai, Ming-Chieh Lin,June-Tai Wu,Yu Kuo, Po-Ming Chow,Shih-Ming Liao, Shao-Ping Yang,Jo-Yu Hong, and Kuo-How Huang
TX043	Up regulation of Naphthalene-mediated NF-kB signaling is associated with CYP2F1 expression in retina pigment epithelium cell 魏伊秀 , 蔡季濠 , 鄭幼文 , 康照洲 Yi-Shiou Wei, Chi-Hao Tsai, Yu-Wen Cheng, and Jaw-Jou Kang
TX044	Aryl Hydrocarbon Receptor Mediates Epigenetic Regulation during HDAC-Inhibitor Treatment in Lung Cancer Cell Lines 蔡季濠 , 梁哲睿 , 鄭幼文 , 康照洲 Chi-Hao Tsai, Che-Jui Liang, Yu-Wen Cheng, and Jaw-Jou Kang
TX045	CRISPR/Cas9-based knockout of SQSTM1/p62 inhibits the cell growth ability and abraxane drug efficacy in human colorectal cancer cells 曾子硯 , 莊雁鈞 , 林育緯 , 趙瑞益 Tzu-Yen Tseng, Yen-Chun Zhuang, Yu-Wei Lin, Jui-I Chao
TX046	Timosaponin AIII Inhibits Metastasis of Renal Carcinoma Cells through Suppressing Cathepsin C Expression by AKT/MiR 129 5p Axis 林佳良、謝逸憲 Chia Liang Lin a, Yi Hsien Hsieh [a, b]
TX047	Glucosinolate extract from Brassica Juncea ameliorates HFD-induced non-alcoholic steatohepatitis 張宴綾；黃惠珮；王朝鐘 Yen-Ling Chang, Hui-Pei Huang, Chau-Jong Wang
TX048	Exosomes Released by Advanced Glycation End Products Exposed Islet Beta Cells Affect Beta Cells Function 郁家青 [1], 邱振源 [2], 許美鈴 [3], 楊榮森 [4], 劉興華 [1]* Chia-Ching Yu[1], Chen-Yuan Chiu[2], Meei-Ling Sheu[3], Rong-Sen Yang[4], Shing-Hwa Liu[1]*
TX049	Increasing Omega-3 Polyunsaturated Fatty Acids in Tilapia Can Upregulate nlrc3 and Reduce Streptococcus agalactiae Induced Inflammation by Transcriptomic and Metagenomic Analysis 李奕萱 , 林家瑜 , 周虹稜 , 龔紘毅 , 吳金洌 , 耿全福 Yi-Shun Lee ,Chia-Yu Lin ,Hung-Leng Chou ,Hong-Yi Gong,Jen-Leih Wu and Chuian-Fu Ken
TX050	Anti-proliferative effects of Desmodium caudatum extracts on breast adenocarcinoma MCF-7 cells by inducing cell cycle arrest and apoptosis in vitro and in vivo 吳珮慈 [1], 陳璟賢 [2], 連宜靖 [1], 王思喻 [1], 林慧萱 [1]* Pei-Tzu Wu[1], Jing-Hsien Chen[2], Yi-Jing Lian[1], Szu-Tu Wang[1], Hui-Hsuan Lin[1]*
TX051	Myocardial protection of Sophora japonica against doxorubicin induced cardiotoxicity in mice 畢偉楓、吳進益、黃麗文、吳明順、楊玲玲 Wei-Fung Bi, Jin-Yi Wu, Li-Wen Huang, Ming-Shun Wu and Ling-Ling Yang
TX052	Asiatic Acid Inhibits Prostate Cancer Epithelial-Mesenchymal Transition through Suppressing of the p38MAPK and Modulating the MZF1/ELK1/snail axis 林主亮 [1], 謝逸憲 [1,2] Chu-Liang Lin[1], Yi-Hsien Hsieh[1,2]

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TX053	miR-4454 enhance p53 mediated apoptosis and G2/M arrest in drug resistant colon cancer against irinotecan by inhibition of GNL3L 石埠 , 郭薇雯 , 黃志揚 Shibu MA[1], Wei-Wen Kuo[2] and Chih-Yang Huang[1,3*]
TX054	Anti-Colorectal Cancer Effect and the Underlying Mechanisms of Methoxyhispolon Methyl ether on Human Colorectal Cancer Cell Lines 李立璿 [1]，鄭可大 [2]，張嘉哲 [1,*] Li-Hsuan Li [1], Kur-Ta Cheng[2], Chia-Che Chang[1,*]
TX055	Compare the Prevention Effect of Icariin and Icaritin on Ischemia / Reperfusion Damage from Cerebral Stroke 陳曼之 [1], 吳鎮天 [2], 陳敞牧 [1], 劉興華 [1*] Man-Chih Chen[1], Cheng-Tien Wu[2], Chang-Mu Chen[1] & Shing-Hwa Liu[1*]
TX056	Galangin Enhances Collagen Synthesis through microRNA-4535 Targeting TGF β -SMAD Pathway in Human Skin Dermal Fibroblast Exposed to H2O2 倪彥婷 [1] , 黃志揚 [345] , 郭薇雯 [2*] Yean-Tin Ni[1], Chih-Yang Huang[345], Wei-Wen Kuo[2*]
TX057	NEDD8-activating enzyme inhibitor MLN4924 reduces cell viability and induces apoptosis in chemoresistant cancer stem-like cells of human urothelial carcinomas in vitro and in vivo 郭冠麟，黃國皓，廖世明，何宜霖，楊劭苹，劉興華 Kuan-Lin Kuo, Kuo-How Huang, Shih-Ming Liao, I-Lin Ho, Shao-Ping Yang, , Shing-Hwa Liu"
TX058	"Studies on Cytotoxicity Induced by Excess Retinol in N2a cell 黃育琳 , 黃登福 Yu-Lin, Huang, Deng-Fwu, Hwang
TX059	Diallyl trisulfide Suppresses microRNA-1188 to Enhance Vasodilator-stimulated phosphoprotein against Advanced Glycation End-products-induced Cardiomyocyte Inflammation 林柏萱 [1], 黃志揚 [2345], 郭薇雯 [1*] Po-Hsuan Lin[1], Chih-Yang Huang[2345], Wei-Wen Kuo[1*]
TX060	Nerolidol ameliorates Angiotensin-II induced cardiac complications through modulation of Mel-18-HSF2-IGFIIR signalling cascade: Prospective therapeutic potential 江瑞庭 [1], Khan Farheen Badrealam*[2], Marthandam Asokan Shibu[3], 郭薇雯 [4], 黃志揚 [2345] Jui Ting Chiang*[1], Khan Farheen Badrealam*[2], Marthandam Asokan Shibu[3], Wei-Wen Kuo[4], Chih-Yang Huang[2345]

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PY091	The Association of Matrix Metalloproteinase-1 Promoter Polymorphisms with Breast Cancer 潘述翌 [1,2], 蕭捷倫 [1,3,4], 劉良智 [5], 施子卿 [2], 賴昱良 [6], 許師偉 [4,6], 王惠暢 [1,5], 夏德椿 [1,4], 蔡佳紋 [1], 張文馨 [1], 蘇振賢 [1], 鍾景光 [3], 包大贏 1,3,4,7* Su-Yi Pan[1,2], Chieh-Lun Hsiao[1,3,4] Liang-Chih Liu[5], Tzu-Ching Shih[2], Yi-Liang Lai[6], Shih-Wei Hsu[4,6], Hwei-Chung Wang[1,5], Te-Chun Shen[1,4], Chia-Wen Tsai[1], Wen-Shin Chang[1], Chen-Hsien Su[1], Jing-Gung Chung[3], Da-Tian Bau[1,3,4,7*]
PY092	ERK Activation Was Associated with Transfusion-Related Acute Lung Injury in C-Reactive Protein-Enhanced Antibody-Mediated Murine Model of Transfusion-Related Acute Lung Injury 張智鈞 , 蔡威廷 , 黃君邦 , 朱芳業 , 洪麗滿 Chih-Chun Chang, Wei-Ting Tsai, Jiung-Pang Huang, Fang-Yeh Chu, Li-Man Hung
PY093	Interleukin-18 Promoter Genotype is Associated with The Risk of Nasopharyngeal Carcinoma in Taiwan 吳芩紋 [1], 張文馨 [1], 蔡佳紋 [1], 夏德椿 [1], 沈德群 [1], 包大贏 [1,2,3*] Cin-Wun Wu[1], Wen-Shin Chang[1], Chia-Wen Tsai[1], Te-Chun Hsia[1], Te-Chun Shen[1], Da-Tian Bau[1,2,3*]

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PY094	The Temporal Profiling and Modulation of Traumatic Stress Related Fear Memory Retrieval in a Rat Model of Post-Traumatic Stress Disorder 張邵涵 Shao-Han Chang
PY095	Development of Probiotic Enteric Formula 陳佳忻 , 黃吉法 , 施承典 Chia-Hsin Chen, Jvi-Faa Hwang, Cheng-Dean Shih
PY096	Exposure to secondhand smoke exacerbated natural aging process Jia-Ping Wu
PY097	The Association of Matrix Metalloproteinase-1 Promoter Polymorphisms with Prostate Cancer in Taiwanese Patients 廖丞晞 [1,2,3], 吳錫金 [4], 胡佩欣 [1,5], 許師偉 [1,2,3], 沈德群 [1,4], 夏德椿 [4], 張文馨 [4], 蔡佳紋 [4], 包大藟 [1,4,6*] Cheng-Hsi Liao[1,2,3], Hsi-Chin Wu[4], Pei-Shin Hu[1,5], Shih-Wei Hsu[1,2,3], Te-Chun Shen[1,4], Te-Chun Hsia[4], Wen-Shin Chang[4], Chia-Wen Tsai[4], Da-Tian Bau[1,4,6*]
PY098	The Contribution of MMP-7 Promoter Polymorphisms to Taiwan Lung Cancer Susceptibility 陳冠良 [1,2,3], 沈德群 [4], 張文馨 [4], 蔡佳紋 [4], 李欣庭 [1,4], 莊志亮 [2,3], 賴昱良 [2,3], 岳德政 [1,2,3], 夏德椿 [4], 王守正 [2,3], 包大藟 [4,5*] Guan-Liang Chen[1,2,3], Te-Chun Shen[4], Wen-Shin Chang[4], Chia-Wen Tsai[4], Hsin-Ting Li[1,4], Chih-Liang Chuang[2,3], Yi-Liang Lai2,3, Te-Cheng Yueh[1,2,3], Te-Chun Hsia[4], Shou-Cheng Wang2,3, Da-Tian Bau1[4,5*]
PY099	LPS monoclonal antibodies modulated LPS induced acute lung injury in murine mode 洪珮娥 , 謝長奇 Pei-O Hung, Chang-Chi Hsieh
PY100	Glut5-KD reduces blood pressure via increases phosphorylation of nNOS and decreases NADPH oxidase by AMPK activation in the NTS of fructose-induced hypertensive rats 陳信宏，鄭珮妏，曾清俊 Hsin-Hung Chen, Pei-Wen Cheng, Ching-Jiunn Tseng
PY101	Association of Matrix Metalloproteinase-7 Genotypes with the Risk of Bladder Cancer 許師偉 [1,2,3], 廖丞晞 [1,2,3], 張文馨 [4], 蔡佳紋 [4], 胡佩欣 5, 吳錫金 [4], 陳冠良 [1,3], 岳德政 [1,2,3], 沈德群 [4], 夏德椿 [4], 包大藟 [1,4,6*] Shih-Wei Hsu[1,2,3], Cheng-Hsi Liao[1,2,3], Wen-Shin Chang[4], Chia-Wen Tsai[4], Pei-Shin Hu5, Hsi-Chin Wu[4], Guan-Liang Chen[1,3], Te-Cheng Yueh[1,2,3], Te-Chun Shen[4], Te-Chun Hsia[4], Da-Tian Bau[1,4,6*]
PY102	Study on the Hypoglycemia and Anti-inflammatory Effects of Cyclocarya paliurus Extract 謝登恩 [1,2], 李燕 [3], 陳佑儒 [2] , 施承典 [1,2*] Den-En Shieh[1,2], Yan Li[3], You-Ju Chen[2], Cheng-Dean Shih[1,2*]
PY103	Contribution of Murine Double Minute 2 Genotypes to Colorectal Cancer Risk in Taiwan 岳德政 [1,2,3,4], 洪義文 [5,6], 施子卿 [7], 吳正男 [8], 王守正 [3,4], 賴昱良 [3,4], 許師偉 [3,4], 巫旻憲 [3,4], 傅俊凱 [3,4], 王韻琪 [2], 柯道維 [2], 張文馨 [2], 蔡佳紋 [2,8], 包大藟 [1,2,9*] Te-Cheng Yueh[1,2,3,4], Yi-Wen Hung[5,6], Tzu-Ching Shih[7], Cheng-Nan Wu[8], Shou-Cheng Wang[3,4], Yi-Liang Lai[3,4], Shih-Wei Hsu[3,4], Ming-Hsien Wu[3,4], Chun-Kai Fu[3,4], Yun-Chi Wang[2], Tao-Wei Ke[2], Wen-Shin Chang[2], Chia-Wen Tsai[2,8], Da-Tian Bau[1,2,9*]
PY104	The Contribution of MMP-7 Genotypes to Colorectal Cancer Susceptibility in Taiwan 巫旻憲 [1,2], 岳德政 [1,2,3,4], 吳正男 [5], 洪義文 [6], 張文馨 [3], 傅俊凱 [1,2], 裴仁生 [7], 賴昱良 [2], 李意旻 [5], 李欣庭 [3], 蔡佳紋 [3,5], 包大藟 [1,3,8*] Ming-Hsien Wu[1,2], Te-Cheng Yueh[1,2,3,4], Cheng-Nan Wu[5], Yi-Wen Hung[6], Wen-Shin Chang[3], Chun-Kai Fu[1,2], Jen-Sheng Pei[7], Yi-Liang Lai[2], Yi-Min Lee[5], Hsin-Ting Li[3], Chia-Wen Tsai[3,5], Da-Tian Bau[1,3,8*]
PY105	The Contribution of Interleukin-12 Genetic Variations to Taiwanese Lung Cancer 吳孟峰 [1,2,3], 王韻琪 [1], 李欣庭 [1,4], 陳偉峻 [1,5,6], 廖丞晞 [1,3,7], 施子卿 [4], 張文馨 [1], 蔡佳紋 [1], 夏德椿 [1,5,6], 包大藟 [1,7,8*] Meng-Feng Wu[1,2,3], Yun-Chi Wang[1], Hsin-Ting Li[1,4], Wei-Chun Chen[1,5,6], Cheng-Hsi Liao[1,3,7], Tzu-Ching Shih[4], Wen-Shin Chang[1], Chia-Wen Tsai[1], Te-Chun Hsia[1,5,6], Da-Tian Bau[1,7,8*]
PY106	Psychological aspect of control on the repeated stressor-induced decreases in dentate neurogenesis 陳昊，游一龍 Hao Chen, Lung Yu

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PY107	Interactive Relationship between Sleep Structure and Fear Conditioning – Extinction Process 連婉君 , 林真誠 , 陳郁政 , 劉亞平 Wan-Chun Lien, Chen-Cheng Lin, Yu-Cheng Chen, Yia-Ping Liu
PY108	Stress influences conditioned place preference induced by methamphetamine in rats 單聖喆 黃智偉 Sheng Che Shan and Andrew Chih Wei Huang
PY109	Effects and different coating structures of Andrographis Paniculata extract 盧惠萍 Hui-Pin Lu
PY110	A paradoxical effect hypothesis of abused drugs: conditioned place preference and conditioned taste aversion induced by ethanol in the animal model 劉羽芹 黃智偉 Yu Qin Liu, Andrew Chih Wei Huang
PY111	Exploratory behaviors to the open-field test in Taiwan field mice 楊淑娟 Shu-Chuan Yang
PY112	Natural Compound X Enhances the Therapeutic Efficacy of Human Adipose-derived Stem Cells in the Treatment of Rheumatoid Arthritis 陳冬生 , 文鈺茹 , 郭薇雯 , 黃志揚 Tung-Sheng Chen, Yu-Ju Wen, Wei-Wen Kuo, Chih-Yang Huang
PY113	Neurotrophic Receptor Tyrosine Kinase 2 as a treatment target in endometriosis 李脩琦[1]，李祐華[1]，吳孟興[2]，林世杰[1]，蔡少正[1,3] Hsiu Chi Lee[1], Yo Hua Li[1], Meng Hsing Wu[2], Shih Chieh Lin[1] and Shaw Jenq Tsai[1,3]
PY114	Pericardium-Myocardium Interaction in Lipopolysaccharide-induced Left atrium arrhythmogenesis 林豐智 盧彥佑 李紹隆 陳適安 陳亦仁 陳耀昌 Fong-Jhih Lin, Yen-Yu Lub, Shao-Jung Li, Shih Ann Chen, Yi-Jen Chen, Yao-Chang Chena,
PY115	17β-Estradiol Induces Temozolomide Resistance through Redox Optimization in Glioblastoma 林宏益[1], 徐宗溢[1,2], 柯瓊媛[1*] Hong-Yi Lin[1], Tsung-I Hsu[1,2], Chiung-Yung Ko[1*]
PY116	Examinations of freezing and anxiety behaviors in the animal model of post traumatic stress disorder 鄭泓林 , 黃智偉 Hung Lin Cheng, Andrew Chih Wei Huang
PY117	Elucidations of the components of environmental enrichment in the animal model of posttraumatic stress disorder 林有上、余英豪、黃智偉 Yeou San Lim, Ying Hao Yu, and Andrew Chih Wei Huang
PY118	Environmental enrichment and morphine injections reduce the symptoms of post-traumatic stress disorder in mice 吳芳諭 , 黃智偉 Fang Yu Wu, Andrew Chih Wei Huang
PY119	Role of adenosine generation and degradation pathways in vascular hyporeactivity of septic rats 蕭燦生、張有燈、李宜勳、廖美惠、吳錦楨、施志勤 Tsan-Seng Hsiao, You-Deng Chang, I-Hsun Li, Mei-Hui Liao, Chin-Chen Wu, Chih-Chin Shih
PY120	Consecutive intake of fried oil impairs tear quality and quantity 黃邦源 , 高于雯 , 呂宗漢 , 羅羽伶 , 黃伽雯 , 張菡馨 , 林培正 * Pang-Yuang Huang , Yu-Wen Kao , Tsung-Han Lu , Yu-Ling Lo , Qie-Wen Huang , Han-Hsin Chang , David Pei-Cheng Lin*
PY121	Retrospective study of Neuromuscular Reversal Agent on General Anesthesia Recovery in Elderly Patients Undergoing Knee Arthroplasty 陳永璋、陳嘉雯、吳樺姍、彭逸稘 Yong-Zhang Chen ,Chia-Wen Chen ,Hua-Shan Wu ,Yi-Chi Peng

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PY122	Perfluorooctane Sulfonate Induces Renal Tubular Cell Apoptosis Through ROS Generation and P-ERK/ Autophagy Pathway 陳彥廷 , 阮淑慧 Yen-Ting Chen, Shu-Hui Juan
PY123	Functions of infection-induced transcription factors in interleukin-6 gene expression 盧惠萍 Hui-Pin Lu
PY124	To Investigate the Role of Grail in Glucose Starvation Induced Cell Death 林裔恬 , 呂姵瑤 , 陳英傳 Lin,Yi-Tian, Liu, Pei- Yao, Chen, Ying- Chuan
PY125	Protective Mechanism of Ubiquitin-Specific Protease-14 Inhibitor IU1 in Preventing against Paraquat-Induced Parkinson's Disease Modal 林沛瑩 [1], 黃乃瑰 [2*], 楊瀅臻 [1*] Pei-Ying Lin[1], Nai-Kuei Huang[2*], Ying-Chen Yang[1*]
PY126	Therapeutic potential of fibronectin type III domain containing 5 (FNDC5)/Irisin for Parkinson's disease 呂文斌 , 陳易隆 , 戴明泓 Wen-Bin Lu [1] Yi-Long Chen [2] Ming-Hong Ta [1,2]
PY127	Different types of environmental enrichment affect methamphetamine-induced behavioral sensitization 鄭凱恩 , 黃智偉 Cai-N Cheng , Andrew Chih Wei Huang
PY128	CEACAM6 interacts with EGF receptor in the lipid-rafts and promotes oral squamous cell carcinoma metastasis 崔菀琳 , 吳明恒 Wan-Lin Tsui, Ming-Heng Wu
PY129	To Study the Effects of Agarwood Extracts on Sleep Loss and Neural Activity 廖修祈 [1], 楊瀅臻 [2] Siou-Ci Liao[1], Ying-Chen Yang[2]
PY130	Targeting galectin-1 suppresses fibrosis-promoted hepatocellular carcinoma through disrupting SERPINB2-JNK feedback loop 吳明恒，楊凱卉，崔菀琳 Ming-Heng Wu, Kai-Huei Yang, Wan-Lin Tsui
PY131	Green tea epigallocatechin gallate regulates the expression of autophagy pathway proteins in 3T3-L1 preadipocytes 蕭安淇 [1] 思蒂娜 [1] 崔以威 [2] 林彥瑜 [1,2] 石麗珍 [3] 郭佑啟 [4] 褚志斌 [5] 高永旭 [1] An-Ci Siao[1], Nancy Christina Batubara[1],Yi-Wei Tsuei[2], Yen-Yue Lin[1,2], Li-Jane Shih[3], Yow-Chi Kuo[4], Chih-Pin Chuu[5], and Yung-Hsi Kao[1]
PY132	Functions of infection-induced transcription factors in interleukin-6 gene expression 盧惠萍 Hui-Pin Lu
PY133	Effect of hypothermia protect against ARDS or increases damage 陳冠州 , 藍胄進 , 戴玉玲 , 陳智遠 , 張宏 Kuan-Chou Chen, Chou-Chin Lan, Yu-Ling Tai, Chih-Yuan Chen, Hung Chang
PY134	Linkage between P2X7 receptor and Central Post Stroke Pain 施希建，管永惠，徐百川 Hsi-Chien Shih, Yung-Hui Kuan ,Bai-Chaung Shyu
PY135	Inflammatory role of neurotrophins in laryngeal airway hyperreactivity induced by intermittent hypoxia in rats 歐秉勳 [1], 沈彥志 [2], 賴靜蓉 [1] Ping-Hsun Ou[1], Yan-Jhih Shen[2], and Ching Jung Lai[1*]

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PH075	Everolimus prevent against degenerative osteoarthritis by inhibiting inflammatory cytokines in Sprague Dawley rats 莊于瑭、張耿瑞 Yi-Tang Chong, Geng-Ruei Chang
PH076	Carbon Monoxide Releasing Molecule-3 Enhanced Heme Oxygenase-1 Expression via ROS, PI3K/AKT, mTOR, FOXO1, and Nrf2 in Rat Brain Astrocytes 楊建中 , 楊春茂 Chien-Chung Yang and Chuen-Mao Yang
PH077	Alteration of miRNA in the nucleus accumbens of methamphetamine-sensitized mice 王子涵 , 劉大維 , 陳姿妙 , 黃信翰 , 陳嘉君 , 陳景宗 Zi-Han Wang, Dai-Wei Liu, Zi- Miao Chen, Shin-Han Huang, Jia-Jun Chen, Jin-Chung Chen
PH078	Garcimultiflorone K inhibits angiogenesis in vitro and in vivo 王琦 [1], 陳奇 [1] , 陳日榮 [2], 王士維 [1*] Ci Wang[1], Chi Chen[1], Jih-Jung Chen [2], Shih-Wei Wang[1*]
PH079	Phomaketide A inhibits lymphangiogenesis in human lymphatic endothelial cells 陳佩琪 [1], 李宗徽 [2], 王士維 [1*] Pei-Chi Chen[1], Tzong-Huei Lee[2], Shih-Wei Wang[1*]
PH080	The clinical outcome of Platinum-base chemotherapy in the first line therapy late stage and previously EGFR-TKIs treated failure lung cancer patients 鍾鏡湖 CHING-HU CHUNG
PH081	Carbonic Anhydrase 8 Mediated Colorectal Cancer angiogenesis in vitro & in vivo 梁淑琪，劉毅康，吳旻寰 Shuk-Ki Leung, Yi-Kang Liu, Min-Huan Wu
PH082	Analysis and Application of Leptin Receptor-Targeting Chinese Medicinal Herbs 劉宜臻，李佳橙，羅欣宜，項千芸，侯庭鏞 I-Chen Liu, Chia-Cheng Li, Hsin-Yi Lo, Chien-Yun Hsiang,Tin-Yun Ho
PH083	Analysis of transcription Factors Regulating the Gene Expression of Human GSTM2、M3 in Bladder Cancer Cells 王琦泓、陳麗琴、劉怡文 Chi-Hung Wang、Lei-Chin Chen、Yi-Wen Liu
PH084	Visfatin induces LOX expression and promotes tumor metastasis through the Src/Akt signaling pathway in human chondrosarcoma cells 游程傑 , 林智暘 , 湯智昕 Cheng-Chieh Yu , Chih-Yang Lin , Chih-Hsin Tang
PH085	Baicalein attenuated vascular calcification in rat aortic smooth muscle cells. 李姒蓉 [1], Widya Yanti Sihotang [1], 黃上恩 [2], 徐仲豪 [3], 葉竹來 [1, 2, *] Szu-Jung Lee [1], Widya Yanti Sihotang [1], Shang-En Huang [2], Jong-Hau Hsu [3], Jwu-Lai Yeh[1, 2, *]
PH086	The Novel Role of N-cadherin in Cardiac Regeneration 曾意軒 , 許芸嘉 , 游閔亦 , 楊鎧鍵 Yi-Shuan Tseng, Yun-Chia Hsu, Min-Yi You, Kai-Chien Yang
PH087	The clinical performance of cervical cancer exposed to proton pump inhibitors 周梅芳 [1, 2 *]、簡戊鑑 [3]、鍾其祥 [3]、羅時鴻 [1,4#] Mei-fang Chou [1, 2*]、Wu-Chien Chien [3]、Chi-Hsiang Chung[3]、Shih-Hurng Loh [1,4#]
PH088	The role of transmembrane proton related transporters and extracellular pH on UCP1 expression during brown adipogenesis in human stem cells 陳宣妤、戴念梓、李曉屏、趙士齊、羅時鴻 Hsuan-Yu Chen, Niann-Tzyy Dai, Shiao-Pieng Lee, Shih-Chi Chao, Shih-Hurng Loh

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PH089	Effects of linalool on the dopamine neurons and motor symptoms in experimental models of Parkinson's disease 林志晟 [1,2], 張婉萱 [1], 李姿瑩 [1], 陳正生 [3], 賴秋蓮 [4], 柯宏慧 [5], 羅怡卿 [1,2*] Chih-Cheng Lin[1,2], Wan-Hsuan Chang[1], Tzu-Ying Lee[1], Cheng-Sheng Chen[3], Chiou-Lian Lai[4], Horng-Huey Ko[5], Yi-Ching Lo[1,2*]
PH090	Endoplasmic reticulum protein TXNDC5 augments myocardial fibrosis by facilitating extracellular matrix protein folding and redox-sensitive cardiac fibroblast activation. 陳昭玲 , Yan Zhang, Rebecca L. Mellor, Evelyn M. Kanter, Yun Fang, 王華琪 , 洪振庭 , 農靜怡 , Hui-Ju Chen, 李姿涵 , 曾意軒 , Chiung-Nien Chen, 吳造中 , 林水龍 , Kathryn A. Yamada, Jeanne M. Nerbonne, 楊鎧鍵 Ying-Chun Shih, Chao-Ling Chen, Yan Zhang, Rebecca L. Mellor, Evelyn M. Kanter, Yun Fang, Hua-Chi Wang, Chen-Ting Hung, Jing-Yi Nong, Hui-Ju Chen, Tzu-Han Lee, Yi-Shuan Tseng, Chiung-Nien Chen, Chau-Chung Wu, Shuei-Liong Lin, Kathryn A. Yamada, Jeanne M. Nerbonne, Kai-Chien Yang
PH091	Live imaging in liver cells to study virus-Ca2+ interactions and ER-mitochondrial Ca2+ dynamics Yu-Chiao Lin[1], Pei-Ju Tsai[1], Yuan-Yuan Feng[1] and Feng-Chiao Tsai[1,2]
PH092	Deciphering Memory Storage Hypothesis: Savings and Behavioral Tagging 陳寧 , 許桂森 Chen Ning, Hsu Kuei-Sen
PH093	The effect of novel HSP90 inhibitor NVP-AUY922 on multiple organ dysfunction syndrome in endotoxemic rats 呂佳賢，沈信學、李燕媚 Chia-Hsien Lu, Hsin-Hsueh Shen, Yen-Mei Lee
PH094	Extracellular Matrix Accumulation and Impairment of Calcium Signaling Are Involved in Ketamine-induced Bladder Dysfunction in A Mouse Model 王守琮 [1], 沈正煌 [3,5], 戴元昌 [2,4], 林瑞進 [6], 劉怡文 [2*] SHOU-TSUNG WANG[1], CHENG-HUAG SHEN[3,5], YUAN-CHANG DAI[2,4], LEI-CHEN LIN[6], YI-WEN LIU[2*]
PH095	IRSp53S induces cell apoptosis in Eps8-expressing colorectal cancer cell 王毓華 [1], 呂增宏 [1], 馬明琪 [2] Yu-Hua Wang[1], Tzeng-Horng Leu[1], Ming-Chei Maa[2]
PH096	Rescue of Reconsolidation Blockade-induced Methamphetamine Memory Loss By Priming: Involvement of Protein Kinases 黃柏融 , 余泱蓉 , 蘇春霖 , 張智華 , 簡伯武 Po-Jung Huang, Yang-Jung Yu, Chun-Lin Su, Chih-Hua Chang and Po-Wu Gean
PH097	Effects of CRMP5 in a mouse model of Alzheimer's disease 林永舜 , 蕭雅心 Yung-Shuen Lin and Ya-Hsin Hsiao
PH098	The role of PTX3 in anti-cancer drug-induced head and neck squamous cell carcinomas dormancy and metastasis 鄭兆良， 陳炳焜 ZHENG ZHAO LIANG, Ben-Kuen Chen
PH099	Imperatorin Attenuates Zymosan-Induced Pulmonary Inflammation in Alveolar Macrophages 李亞蓁、葉威蘭 Ya-Zhen Li, Wei-Lan Yeh
PH100	Dapagliflozin Downregulates Fructose-Induced Oxidative Stress via SGLT2-Dependent Mechanism 陳瑛瑛、吳宗典、鄭珮姣 Ying-Ying Chen, MD[1]; Tsung-Tien Wu, MD[2] ; Pei-Wen Cheng, PhD[3]
PH101	A Synthetic Phage-Displayed Library Combined with Computer-Aided Design for Screening Nanobodies and Peptides Against Small Compounds 張嘉芮、李雨青、蔡耿彰 *、蕭哲志 * Chia-Jui Chang, Yu-Ching Lee, Keng-Chang Tsai*, George Hsiao*
PH102	Enhancement of ethanol-induced tachycardia following blockade of central Estrogen α and β Receptors in female rats 石志睿 [1], 林恂恂 [2], 賴志嘉 [1,3] Jiro Hasegawa Situmorang [1], Hsun-Hsun Lin[2], Chih-Chia Lai[1,3]

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PH103	Ethyl pyruvate protects against heatstroke-induced multiple organ dysfunctions via activation of AMPK signal pathway and autophagy 林文婷、沈信學、顏茂雄、李燕媚 Wen-Ting Lin, Hsin-Hsueh Shen, Mao-Hsiung Yen, Yen-Mei Lee
PH104	Determination of C-14-Acetaminophen and their metabolites in rat urine by liquid chromatography tandem mass spectrometry with flow scintillation analyzer 王世民，羅盛男，官孝勳，陳威希，張志賢 Shih-Min Wang, Sheng-Nan Lo, Hsiao-Hsun Kuan, Wei-Hsi Chen, and Chih-Hsien Chang
PH105	Signalling interactions between EGFR and FGFR alter the migration of head and neck cancer cells 褚韶瑜 [1]，張立昀 [1]，施卓琪 [1]，郭冠宏 [1]，陳坤麟 [2] 和蔡丰喬 [1,3] Chao-Yu Chu[1], Li-Yun Chang[1], Si Cheok Kei[1], Guan-Hung Kuo[1], Kun-Lin Chen[2] and Feng-Chiao Tsai[1,3]
PH106	Combination of Alpha-Lipoic Acid and Genistein Induces White Adipose Tissue Browning through Modulation of Autophagy in Ovariectomized Rats 蔡佩芳、李燕媚、沈信學 Pei-Fang Tsai, Yen-Mei Lee, Hsin-Hsueh Shen
PH107	Dual immuno-renal targeting of 7-benzylidenenaltrexone alleviates lupus nephritis via Fc γ RIIB and HO-1 曾琮智，黃婷茵，賴亮全，懷顯，蕭亦文，周峻霈，莊曜宇，曾賢忠 Tsung-Chih Tseng, Duen-Yi Huang, Liang-Chuan Lai, Haw Hwai, Yi-Wen Hsiao, Jyun-Pei Jhou, Eric Y. Chuang, Shiang-Jong Tzeng
PH108	Evaluation on the anti-cancer activity of Indinavir and development of the nanoparticle encapsulated Indinavir for anti-cancer treatment 張裕瑋 鄭豐裕 (中國文化大學化學系，應用化學研究所，助理教授) 張雋曦 (國立成功大學醫學院藥理學科暨研究所，副教授) Yu-Wei Jhang, Fong-Yu Cheng and Chun Hei Antonio Cheung (張雋曦)
PH109	Opposite Expression of E-cadherin and Survivin in the Osimertinib-Induced Drug Resistance of Non-Small Cell Lung Cancer Cells Carried with EGFR-T790M Mutation 王若昕，張建仁，劉光凱，陳建宏，趙瑞益 Rou-Hsin Wang, Chien-Jen Chang, Kuang-Kai Liu, Chien-Hung Chen, Jui-I Chao
PH110	Trowaglerix Venom Polypeptide Restores eNOS Downregulation Associate miR-155-5p Biogenesis on TNF-α-Induced Endothelial Progenitor Cell Dysfunction 蔡欣萍，賴宗聖，鍾鏡湖 Sing-Ping Tsai, Thung-Shen Lai, Ching-Hu Chung
PH111	Pharmacological Effects of CDK4/6 Inhibitor on Neutrophilic Inflammation. 曾馨慧 [1]，陳柏任 [2]，黃聰龍 [1, 3, 4*] Hsin-Hui, Tseng[1], Po-Jen, Chen[2], Tsong-Long, Hwang[1, 3, 4*]

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AN034	To determine the therapeutic potential of senolytic bone marrow MSCs for frailty with bone fracture 林怡君、朱慈暉、嚴靜芬、陳柏翰、徐佳福 Yi-Jun Lin, Tzu-Hui Chu, Jen-Fen Yen, Po-Han CHen, Jia-Fwu Shyu
AN035	Development of Wet Spinning-based Molding Process for Clinical Regeneration Strategy 王佳瑜，沙仙女，王鼎涵，張淑貞，劉正哲，王怡文，洪伯達，程君弘 Chia-Yu Wang, Dewi Sartika, Ding-Han Wang, Shu-Jen Chang, Cheng-Che Liu, Yi-Wen Wang6, Po-Da Hong and Juin-Hong Cherng

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AN036	Identify the N-terminal peptide of protease-activated receptor 2 as the chemotaxin to induce melanosomes transferring from keratinocytes to melanocytes 陳正繹 *, 劉炳良 , 詹敏幼 , 趙壯飛 Jang-Yi Chen*,Ping-Liang Liu, Min-Yu Chan,Chung-Faye Chao
AN037	國立陽明大學大體灌流方式改良報告 蕭校生、蕭文銓、彭淑婷、劉欣宜、劉皓云、蔡國樞、鄭瓊娟 Hsiao-Sheng Hsiao、Wen-Chuan Hsiao、Shu-Ting Peng、Hsin-I Liu、Hao-Yun Liu、Kuo-Shu Tsai、Chung-Jiuan Jeng
AN038	Effects of Epidural Decompression on Rat Barrel Cortex 葉姿吟、曾國藩、劉培新 * Tzu-Yin Yeh, Guo-Fang Tseng, Pei-Hsin Liu*
AN039	Transplantation of Mesenchymal Stem Cell from Wharton's Jelly Causes the Inhibition of Autoimmunity and the Differentiation of Insulin-Producing Cell in Nonobese Diabetic MiceWei-Wun Liu, Chen-Yuan Hsiao, Jia-Fwu Shyu, Tien-Hua Chen, Pei-Jiun Tsai
AN040	Intracerebroventricular Streptozotocin Injection Reduced CA1 Pyramidal Neuronal Dendritic Spines and Impaired Cognitive Function in Rats 陳儷今 , 賴筱雯 , 王曰然 , 曾國藩 Li-Jin Chen, Hsiao-Wen, Lai, Yueh-Jan Wang, Guo-Fang Tseng
AN041	Interdisciplinary application of An Anatomy MOOC 王霈 , 王嘉銓 Pei Wang and Chia-Chuan Wang
AN042	A revised Gross Anatomy Program for Nursing Students in the Tzu Chi University 賴昆城 , 曾國藩 Department of Anatomy, College of Medicine, Tzu Chi University
AN043	Study of the Isolation and Differentiation of Human Wharton’ s Jelly Mesenchymal Stem Cells from Umbilical Cord 謝于萱 , 蕭鎮源 , 徐佳福 , 陳天華 , 蔡佩君 Yu-Hsuan Hsieh, Chen-Yuan Hsiao, Jia-Fwu Shyu, Tien-Hua Chen, Pei-Jiun Tsai
AN044	Microenvironmental Cues Regulate Tenogenisis in Human Bone Marrow-derived Mesenchymal Stem Cell 林芷絹 [1], 王仰高 [1] Chih-Chuan Lin[1], Yang-Kao Wang[1]
AN045	Investigating the antioxidative property of alpha-lipoic acid in influenza A (H1N1) virus infection by a mouse model 黃靖雅、黃星華、蔡孟為、鄭博軒、莊爵維、林谷峻 Jing-Ya Huang, Shing-Hwa Huang, Meng-Wei Tsai, Bo-Xuan Zheng, Jyue-Wei Chuang, Gu-Jiun Lin
AN046	Using human dissection teaching videos to assist experiment learning 王怡文、李致翰、徐佳福 Yi-Wen Wang, Chih-Han Li, Jia-Fwu Shyu
AN047	The Differences between Exosomes Secreted by Normoxia-Cultured and Hypoxia-Cultured Human Wharton’ s Jelly Mesenchymal Stem Cells 鄭智珉 , 蕭鎮源 , 徐佳福 , 陳天華 , 蔡佩君
AN048	Successfully Primary Culture of the Human Hepatoma Cells (HuH-7) in vitro 劉楷濬 , 陳天華 , 徐佳福 , 賴峻毅 , 蔡佩君 , Kai-Jun Liou, Tien-Hua Chen , Jia-Fwu Shyu, Jiun-I Lai, Pei-Jiun Tsai

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BC087	Arl4A-PAK1 complex establishes a positive feedback loop contributing to sustained PAK1 activation for cell migration 陳冠融 (1), 江采蓁 (1), 游佳融 (2), 李芳仁 (1) Kuan-Jung Chen (1), Tsai-Chen Chiang (1), Chia-Jung Yu (2), and Fang-Jen S. Lee (1)
BC088	The Function of Ectopic ATP Synthase in Extracellular Vesicles under Serum Deprivation 張乃文 , 高翊竣 , 張怡雯 , 賴品光 , 黃宣誠 , 阮雪芬 * Nai-Wen Chang, Yi-Chun Kao, Yi-Wen Chang, Charles P. Lai, Hsuan-Cheng Huang, Hsueh-Fen Juan*
BC089	Arl4D Small GTPase Complexes with IRSp53 to Modulate Filopodia Formation 蔡岱蓁 , 李芳仁 Tai-Chen Tsai, Fang-Jen S. Lee
BC090	Investigating the effect of SIRT1 gene on macrophages and wound healing 洪怡雯、許家榛、謝義興 Yi-Wun Hung,Chia-Chen Hsu,Yi-Shing Shieh
BC091	Regulatory Mechanisms of GTPase-activating Protein Gcs1 Function toward GTP Hydrolysis of Arl1 吳雨潔 [1], 邱婉筠 [1], 許家維 [1], 陳思蓉 [1], 劉雅雯 [1], 游佳融 [2], 李芳仁 [1,3]* Yu-Chieh Wu[1], Wan-Yun Chiu[1], Jia-Wei Hsu[1], Zzu-Jung Chen[1], Ya-Wen Liu[1], Chia-Jung Yu[2], and Fang-Jen S. Lee[1,3]*
BC092	Mechanism of Action of Arl1 GTPase and Imh1 Golgin in the Endosome-to-Golgi Retrograde Trafficking 邱婉筠 [1], 陳彥廷 [1], 王翊豪 [1], 胡振豪 [1], 陳文卉 [1], 劉嘉倫 [1], 李芳仁 [1, 2] * Wan-Yun Chiu [1], Yan-Ting Chen [1], I-Hao Wang [1], Jen-Hao Hu[1], Wen-Hui Chen [1], Chia-Lun Liu [1], and Fang-Jen S. Lee [1, 2] *
BC093	The Effects of Recombinant Thrombomodulin Domain Protein in Osteoclastogenesis 黃佳啟 [1], 洪翌凱 [1,2,3], 張碧英 [1], 施桂月 [1,2], and 吳華林 [1,2,3,*] Chia-Chi Huang[1], Yi-Kai Hong[1,2,3], Bi-Ing Chang[2], Guey-Yueh Shi[1,2], and Hua-Lin Wu[1,2,3,*]
BC094	Arl4D modulates microtubule dynamics via its interaction with EB1 林新晉 , 黃純芳 , 吳宗聖 , 李純純 , 李芳仁 Shin-Jin Lin, Chun-fang Huang, Tsung-Sheng Wu, Chun-Chun Li, and Fang-Jen S. Lee
BC095	MAPK Hog1 Functions at the Late Golgi Transport via Promoting Arl1 Activation 王奕勛 , 許家維 , 李芳仁 Yi-Hsun Wang, Jia-Wei Hsu, Fang-Jen S. Lee
BC096	The Role of Tumor Endothelial Marker 1 in Keloid Disease 洪翌凱 [1,2,3], 許釗凱 [3,4], 鄭琮霖 [5,6,7], 吳振翰 [3], 何彥庭 [8], 張碧英 [2], 施桂月 [1,2], and 吳華林 [1,2,3*] Yi-Kai Hong[1,2,3], Chao-Kai Hsu[3,4], Tsung-Lin Cheng[5,6,7], Chen-Han Wu[3], Yen-Ting Ho[8], Bi-Ing Chang[2], Guey-Yueh Shi[1,2], and Hua-Lin Wu[1,2,3*]
BC097	The Stability Control of NME3 by Mitochondrial E3 ligase MUL1 杜宜蓁 (1), 張智芬 (1,2*) I-Chen Tu (1), and Zee-Fen Chang (1,2*)
BC098	Comparing Nucleoprotein Filament Assembly of Yeast Dmc1 and Rad51 Recombinases at the Single-Molecule Level 林聖堯 , 藍偉瑄 , 張文軒 , 高誌遠 , 冀宏源 *, and 李弘文 * Sheng-Yao Lin, Wei-Hsuan Lan, Wen-Hsuan Chang, Chih-Yuan Kao, Peter Chi*, and Hung-Wen Li*
BC099	Aberrant STAT3 signaling disrupt chromosome stability through enhancer methylation of SMARCAL1 in gastric cancer 莊育銘 [1], 洪聖柔 [2], 周建良 [3], 黃宛虹 [1], Pearlly S. Yan[4], 劉宗霖 [2], 陳永恩 [1*] Yu-Ming Chuang[1], Sheng-Jou Hung[2], Jiang Liang Chou[3], Wan-Hong Huang[1], Pearlly S. Yan[4], Tsunglin Liu[2], Michael W.Y. Chan[1*]
BC100	Development of novel syndecan-1 targeting drug for oral squamous carcinoma 盧彥璋、郭秉學、黃健鈞、杜語軒、王慧菁、張大慈 Yen-Chang Lu, Ping-Hsueh Kuo, Jian-Jun Huang, Yu-Hsuen Tu, Lily Hui-Ching Wang, Margaret Dah-Tsyr Chang

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BC101	The Regulatory Role of WW Domain-containing Oxidoreductase in Enterovirus A71 Infection 陳亭羽 , 陳佩璇 , 徐麗君 Ting-Yu Chen, Pei-Shiuan Chen, Li-Jin Hsu
BC102	Rad51-mediated meiotic recombination in Trichoderma reesei 李宛蓁，莊幼謙，陳佳鈴，王廷方 Wan-Chen Li, Yu-Chien Chuang, Chia-Ling Chen, and Ting-Fang Wang
BC103	DNA Hypomethylation Promotes Chromosome Instability via Transcription-coupled Nucleotide Excision Repair 施雪姿 [1,2], 陳威儀 [3], 王心彥 [1], 吳澤祥 [4], 黃憲達 [5,6,7], 周致宏 [8,9], 張智芬 [1,2] Hsueh-Tzu Shih[1,2], Wei-Yi Chen[3], Hsin-Yen Wang[1],Tse-Hsiang Wu[4], Hsian-Da Huang[5,6,7], Chih-Hung Chou[8,9], Zee-Fen Chang[1,2]*
BC104	Deep Learning Tools for Semi-Automated Assistance in the SheddomeDB Update 黃文毅 , 巫坤品 Wun-Yi Huang, Kun-Pin Wu
BC105	Low Doses N-acetylcysteine Combined with Flavonoids Adjuvant Therapy of Propacetamol-Induced Acute Liver Injury to minimize the Adverse Effects of High Doses of N-acetylcysteine 駱佳慧 [1], 胡旃鈺 [1], 黃襄國 [1], 蔡明勳 [2], 王淑紅 [1,*] Chia-Hui Luo[1], Chen-Yu Hu[1], Shang-Kok Ng[1], Ming-Shiun Tsai[2], Sue-Hong Wang[1,*]
BC106	Pathomechanism Characterization and Potential Therapeutics Identification for SCA3 Targeting Neuroinflammation 林書安 , 邱雅貞 , 李桂楨 Shu-An Lin, Ya-Jen Chiu, Guey-Jen Lee-Chen
BC107	Study of the Possible Role of Estrogen in the Sex Difference of Oxytocin-induced Anti-hyperalgesia at the Spinal Level in Rats. Chun-Lin Kuo, Lok-Hi Chow, Wan-Chuan Wu, Eagle Yi-Kung Huang
BC108	EGFR-Mediated AGO2 Phosphorylation Upregulates MCL1 Expression in ABT-263-Treated Human Leukemia Cells 李苑親 Yuan-Chin Lee
BC109	Vincristine Induces Apoptosis of Human Leukemia U937 Cells via SIRT3/ROS/p38 MAPK/TTP axis-mediated TNF-α upregulation 王亮鈞，張榮賢 * Liang-Jun Wang, Long-Sen Chang*
BC110	Tumor endothelial marker1 (TEM1) is involved in transforming growth factor-β- induced signal transduction 洪嘉儀 [1], 洪翌凱 [1,2], 施桂月 [1,2], 吳華林 [1,2,3,*] Chia-Yi Hung[1], Yi-Kai Hong[1,2,3], Guey-Yueh Shi[1,2], and Hua-Lin Wu[1,2,3,*]
BC111	Protective Effect of Galangin on ROS-Induced Skin Aging is Mediated through Sirt1 Pathway 許佳雲 [1], 黃志揚 [2345], 郭薇雯 [1*] Jia-Yun Hsu [1], Chih-Yang Huang[2345], Wei-Wen Kuo[1*]
BC112	Induction of microRNA-210 by Diallyl trisulfide(DATS) Protects Cardiomyocytes from Mitochondrial Dysfunction and Apoptosis through Targeting JNK following Advanced Glycation End-product (AGE) Exposure 黃襄川 [1], 黃志揚 [2345], 郭薇雯 [1*] Shang-Chuan Ng [1], Chih-Yang Huang[2345], Wei-Wen Kuo[1*]
BC113	A chaperon-like protein HYPK binds Arl4 small GTPases to modulate cell migration 林明潔，李芳仁 Ming-Chieh Lin, Fang-Jen S. Lee
BC114	Predicting Exosomal Proteins for Cancer Biomarker Discovery Using Machine Learning Methods 朱律安、巫坤品 Lu-An Chu, Kun-Pin Wu

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BC115	DRP1 Expression Variation and Parkinson's Disease: Studies of Promoter Polymorphism and Transcriptional Regulation 張林康 , 趙芷英 , 林志信 , 吳逸如 , 陳瓊美 , 張國軒 , 李桂楨 Lam-Hong Cheung, Chih-Ying Chao, Chih-Hsin Lin, Yih-Ru Wu, Chiung-Mei Chen, Kuo-Hsuan Chang, Guey-Jen Lee-Chen
BC116	Image Recognition of Mass Spectra for Gastric Cancer Detection 周佳儀、巫坤品 Chia-Yi Chou, Kun-Pin Wu
BC117	A modified screening pipeline for the secreted protein predictor, SecretePipe. 周韋廷 , 巫坤品 Wei-Ting Chou, Kun-Pin Wu
BC118	Study of The Roles of Tumor Endothelial Marker 1 (TEM1) on PMA-Induced Podosome Rosette Formation in V-Src Transformed Fibroblasts 黃冠彰 [1], 施桂月 [2], 吳華林 [1,2*] Kuan-Chang Huang[1], Guey-Yueh Shi[2] and Hua-Lin Wu[1,2*]
BC119	Ratfish liver oil prevents diabetic nephropathy via regulation of TET enzymes and DNA demethylation 吳秒儀 [1], Ali Mallakin[2], Hans-Uwe Dahms[3], 謝翠娟 [1] Miao-Yi Wu[1], Ali Mallakin[2], Hans-Uwe Dahms[3], Tusty-Jiuan Hsieh[1]
BC120	Mechanism of mutant EGFR recycling in regulating TKI resistance 蔡侑書 , 陳炳宏 You-Shu Tsai, Ping-Hung Chen
BC121	An association study between variants in ZMYND8 gene and Type-2 Diabetes Mellitus in Taiwanese Population and investigation of the gene expression in the diabetic mouse 蔡侑書 , 陳炳宏 You-Shu Tsai, Ping-Hung Chen
BC122	Development of new foam dressing for negative pressure wound therapy 陳思賢 , 彭宜晨 , 朱育普 , 朱國棟 Szu-Hsien Chen, Yi-Chen Peng,Yu Pu Chu, Gordon Chu
BC123	Sex Difference of Autosomal Alleles in Population of Taiwanese Population 李秉翰 , 楊永正 Ping-Han Lee, Ueng-Cheng Yang
BC124	The cytotoxicity of malachite green and its metabolites in mammalian cells. 何慧璇 [1], 徐歷彥 [2], 許瑜君 [1], 趙維良 [1], 劉佩珊 [1*] Hui-Hsuan Ho[1], Li-Yen Shiu[2], Yujun Xu[1], Wei-Liang Chao[1], Pei-Shan Liu[1]
BC125	Alternation of the gene expression signature after SUPT4H1 knockdown in induced pluripotent stem cells derived from patients of Huntington’ s disease (HD) 張東涵 , 林妤軒 , 鄭子豪 , 黃彥華 Tung-Han Chang, Yu-Shiuan Lin, Tzu-Hao Cheng, Yen-Hua Huang
BC126	Dexamethasone-Induced Gene Expression Alteration in Choroid Plexus 吳彥宏 ; 管永恕 Yan-Hong Wu; Yung-Shu Kuan
BC127	Investigation of the relationship of HDL-C/LDL-C and CRP Wen-Tung Hsu[1], Hung-Chang Hsu[2], Chao-Hsun Hsu [3], Hsiao-Chi Chen[1], Sheng-Huang Chang [4], Deng-Ho Yang[1、5] and Li-Mien Chen [5]
BC128	Characteristics and Viral Shedding of Children with Norovirus Gastroenteritis 羅昱雯 [1], 黃莉筑 [1], 曲怡潔 [2], 李忠城 [3], 邱政洵 [3], 劉淑瑛 [1] (Yu-Wun Luo)[1],(Li-Jhu Huang)[1],(Yi-Chieh Chu)[2],(Jhong-Cheng Li)[3], (Cheng-Hsun Chiu)[3] ,(Shu-Ying Liu)[1]

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IM002	Autophagy Promotes the Secretion of Galectin-1 in Hepatoma Associated Macrophages 古德翰 , 張志鵬 Goutham Venkata Naga Davuluri, Chih-Peng Chang
IM004	Control of thymus organogenesis and T cell development by Heparan Sulfate 徐璿博 Hsuan-Po, Hsu
IM006	Search For Novel Genes Regulating B Cells Functions : With Special Focus on Metabolic Genes 羅逸溶 , 劉柏均 , 呂春敏 Yi-Jung Lo, Po-Chun Liu, and Chuen-Miin Leu
IM008	Helicobacter pylori induces intracellular galectin-8 aggregation around damaged lysosomes within gastric epithelial cells in a host O-glycan-dependent manner 李芳諺 , 翁宜君 , 林俊宏 , 高茂傑 , 吳明賢 , 陳煥源 , 劉扶東 Fang-Yen Li, I-Chun Weng, Chun-Hung Lin, Mou-Chieh Kao, Ming-Shiang Wu, Huan-Yuan Chen, Fu-Tong Liu
IM010	The Effect of Acrylamide Exposure on Allergic Lung Inflammation 蘇湘涵，莊嘉華，黃嘯谷，孫昭玲 Hsiang-Han Su, Chia-Hua Chuang, Shau-Ku Huang, Jau-Ling Suen
IM012	Type IIb Heat Labile Enterotoxin B Subunit as a Mucosal Adjuvant Enhances Protective Immunity Against H5N1 Avian Influenza Viruses via Th17 Response 唐銘甫 , 呂俊毅 , 陳廷軒 , 詹家琮 , 蘇士哲 , 陳紀瑩 , 黃崇雄 , 黃明熙 , 江伯倫 , 黃立民 , 吳夙欽 Neos Tang, Chun-Yi Lu, Ting-Hsuan Chen, Jia-Tsrong Jan, Shih-Che Sue, Jih-Ying Chen, Chung-Hsiung Huang, Ming-Hsi Huang, Bor-Luen Chiang, Li-Min Huang, Suh-Chin Wu
IM014	The Role of MEF2C in Regulating Development and Migration of Plasmacytoid Dendritic Cells 趙姿涵 , 林怡文 , 李建國 Tzu Han Chao, Yi-Wen Lin, Chien Kuo Lee
IM016	Intracellular Galectins Control Cellular Responses Commensurate with Cell-surface Carbohydrate Composition Ming-Hsiang Hong, Wei-Han Lin, I-Chun Weng, Yu-Hsien Hung, Hung-Lin Chen, Huan-Yuan Chen, Peilin Chen, Chun-Hung Lin[2], Wei Yuan Yang[2], Fu-Tong Liu[1]*
IM018	A novel DEAD box RNA helicase negatively regulates NLRP3 inflammasome activation 簡懿姍 , 賴怡惠 , 林鼎翔 , 楊志祥 , 許書維 , 徐立中 Yi-Shan Chien, Yi-Hui Lai, Ting-Hsiang Lin, Chin-Hsiang Yang, Shu-Wei Hsu, Li-Chung Hsu
IM020	Echinacea purpurea Ethanol Extract on Male Reproductive Function with Streptozotocin-Nicotinamide Induced Diabetic Rat 莉雅 , 毛乾豐 , 李奇芝 , 龍炳廷 , 龔瑞林 Khairiyah, Chien-Feng Mao, Chi-Chih Lee, Bing-Ting Long, Zwe-Ling Kong
IM022	Prevention Of Cancer Relapse By Neoantigen Vaccination 沈昊群 , 施季韜 , 吳品逸 , 陶秘華 Hao-Chun Shen, Chi-Tao Shih, Ping-Yi Wu, Mi-Hua Tao
IM024	Use of CRISPR/Cas9-mediated genomic editing to study dendritic cell development 郭洸廷 , 李建國 Kuang-Ting Kuo and Chien-Kuo Lee
IM026	Curcumin- loaded Mesoporous Silica Nanoparticles Induce Apoptotic Tumor Cell Death Zwe-Ling Kong, Hsiang -Ping Kuo, Li-Cyuan Wu, Ke Liang B. Chang
IM028	The roles of mitochondrial respiration and ROS in BCG vaccine-induced trained immunity in myeloid cells Ponarulselvam Sekar, 林琬琬 Ponarulselvam Sekar, Wan-wan Lin

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IM030	Preparation of Stable and Effective Artificial Antigen Presenting Cells by Intracellular Hydrogelation 林榮辰 , 簡禎瑩 , 林志隆 , 姚秉瑜 , 劉玉涵 , 方紫珣 , 陳慧文 , 胡哲銘 Jung-Chen Lin, Chen-Ying Chien, Chi-Long Lin, Bing-Yu Yao, Yu-Han Liu, Zih-Syun Fang, Hui-Wen Chen, Che-Ming J. Hu
IM032	The Roles of CARMA1 and CARD9 in Influenza Virus Infection 謝世良 , 曾卉菱 Hsieh, Shie-Liang, Tseng, Hui-Ling
IM034	Investigation of The Role of CLEC5A in Host Immune Response Against Listeria monocytogens Infection. 趙之偉 , 陳斯婷 Chih-Wei Chao, Suz-Ting Chen
IM036	Investigation of liver immune responses of males and females in the initiation of primary biliary cholangitis 劉芝宇 , 薛郁馨 , 林佳儀 , 王禹文 , 莊雅惠 Chih-Yu Liu, Yu-Hsin Hsueh, Chia-I Lin, Yu-Wen Wang, and Ya-Hui Chuang
IM038	Environmental Di-(2-ethylhexyl) Phthalate Exposure Promotes the Allergic Lung Inflammation by Modulating Functions of Dendritic Cell through Peroxisome Proliferator-Activated Receptor 曾馨漢 , 黃嘯谷 , 孫昭玲 Hsin-Han Tzeng, Shau-Ku Huang, Jau-Ling Suen
IM040	A Potent Nanoparticle Vaccine towards Personalized Anticancer Vaccination 林建緯 , 姚秉瑜 , 林榮辰 , 胡哲銘 Leon CW Lin, Bing-Yu Yao, Jung-Chen Lin, Che-Ming J Hu
IM042	Tid1, a HSP40 Co-chaperone Protein, Involves in The B Cell Development 范家寧 , Stephanie Sayson, 羅正汎 , 周秀慧 Jia-Ning Fan, Stephanie Sayson, Jeng-Fan Lo , Shiu-Huey Chou
IM044	Substrate-Based Three-Dimensional Culture Enhance the Immune-Hematopoietic Modulatory Characters of Mesenchymal Stroma Cells 楊子嫻 , 周秀慧 , 徐善慧 , 王孟菊 Tzu-Hsien Yang, Shiu-Huey Chou, Shan-Hui Hsu, Meng-Jiy Wang
IM046	TLR2 signaling able to repair the IL-4/IL-13 elicited barrier function defect in keratinocytes 莊惠雯，陳惠珊，劉昭麟，沈家瑞 Huei-Wen Chuang, Hui-Shan Chen, Chao-Lin Liu, and Chia-Rui Shen
IM048	Assess whether probiotics reduce pancreatic cancer resistance to chemotherapy and improve chemotherapy side effect 錢韋薇、賴俊霖、林岳致、黃冠霖、詹明修 Wee-Wei Chieng, Caucasus Jun-Lin Lai, Yueh-Chih Lin, Guan-Lin Huang, Ming-Shiou Jan
IM050	Investigate the Role of Thymic Stromal Cells in Mediating Thymic Macrophages Differentiation 范琇涵 , 周庭安 , Ivan Dzhagalov, 徐嘉琳 Hsiu-Han Fan, Tyng-An Zhou, Ivan Dzhagalov, Chia-Lin Hsu
IM052	Restoration of Galectin-7 Expression in Keratinocytes Ameliorates Skin Hyperplasia and Inflammatory responses. 陳宏霖 , 黃琪淳 , 劉扶東 Hung-Lin Chen, Annie Chi-Chun Huang, Fu-Tong Liu
IM054	Galectin-3 promotes non-canonical inflammasome activation through LPS glycans recognition 駱子翰 , 陳宏霖 , 翁宜君 , 劉扶東 Tzu-Han Lo, Hung-Lin Chen, I-Chun Weng, and Fu-Tong Liu
IM056	E. coli and Gut Probiotics Activate STAT3 of Hepatocytes by Interacting with Gut Macrophages 戴瑋萱 , 鄭涵丹 , 梁森灝 , 陳彬芳 , 林昱伶 , 呂亞旂 , 蔡宗佑 , 黃毓慈 Wei-Hsuan Tai, Han-Tan Cheng, Sing-Hou Leong, Bing Fang Chen, Yu-Ling Lin, Ya-Chi Lyu, Tsung-Yu Tsai, Yu-Tzu Huang
IM058	Galectin-12 regulates the immune response of sebaceous glands to cytokines Fong-Ren Lin, Yun-Hsi Huang and Fu-Tong Liu

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IM060	Role of TAPE innate immune adaptor in NLRP3 inflammasome regulation 李嘉芙，吳忠鴻，高禎鞠，陳冠儒，凌斌 Ka Fu Lei , Zhong Hong Wu, Chen-Chu Kao, Kuan-Ru Chen and Pin Ling
IM062	The Roles of NLRX1 in Regulation of Mitochondrial Function and Innate Immune Response in Macrophages 洪翊筑 , 彭阿魯 , 林琬琬 Yi-Chu Hung, Ponarulselvam Sekar , Wan-Wan Lin
IM064	A rare STAT1 mutation in a family with chronic mucocutaneous candidiasis 雷偉德，羅佳祺，顧正崙 Wei-Te Lei, Chia-Chi Lo, Cheng-Lung Ku
IM066	Blimp-1-Mediated Pathway Promotes Type I IFN Production in Plasmacytoid Dendritic Cells by Targeting to Interleukin-1 Receptor-Associated Kinase M 柯怡安 , 詹月瑄 , 劉津秀 , 梁健忠 , 莊宗顯 , 薛一蘋 , 林宜玲 , 林國儀 Yi-An Ko, Yueh-Hsuan Chan, Chin-Hsiu Liu, Jian-Jong Liang, Tsung-Hsien Chuang, Yi-Ping Hsueh, Yi-Ling Lin and Kuo-I Lin
IM068	The effect of N-butyl benzyl phthalate, a common plasticizer, on endometriosis development 李若羽、Pooja Sharma、孫昭玲 Jo-Yu Lynn Lee, Pooja Sharma, Jau-Ling Suen
IM070	The role of Equilibrative Nucleoside Transporter 3 in microglia and neuroinflammation 徐嘉琳 , 洪秉煜 Chia-Lin Hsu, Hung Bing-Yu
IM072	Role of TAPE innate immune adaptor in regulating the NOD2 pathways and autophagy during Salmonella infection 謝筑伊 , 高禎鞠 , 陳冠儒 , 凌斌 Chu-Yi Hsieh, Chen-Chu Kao, Kuna-Ru Chen and Pin Ling
IM074	The role of autophagy in the secretion of dengue virus non-structural protein 1 吳驊霖 張志鵬 Hua-Lin Wu Chih-Peng Chang
IM076	Inflammation Core Facility : Assessment of Mediators Profiling In Plasma of Patients with SLE and RA 許家豪 , 林威翰 , 洪聿賢 , 蘇昱日 , 劉扶東 , 陳煥源 Chia Hao Hsu, Wei Han Lin, Yu-Hsien Hung, Ben Yu-Jih Su, Fu-Tong Liu, Huan-Yuan Chen
IM078	The role of metabolites of Porphyromonas gingivalis in progression of pancreatic cancer 詹明修、李德彥、賴俊霖、林嘉緯、徐麗君 Ming-Shiou Jan, Der-Yen Lee, Caucasus Jun-Lin Lai, Chia-Wei Lin, Li-Jin Hsu

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海報編號	論文題目
MI015	A Potential Role of Dioscin as A Radiosensitizing Agent in Oral Squamous Cell Carcinoma 林柔逾、郭仕勳、柯建志、謝雅茹 Rou-Yu Lin 、Shih-Hsun Kuo、Chien-Chih Ke、Ya Ju Hsieh
MI016	The Effect of Extract of Lophatheri Herba to Promote Wound Healing and the Application of Matlab to Quantify the Results 林姿婷 李易展 Tzu-ting Lin, Yi-Jang Lee
MI017	台灣最新式小動物 CT 之體內與體外研究 The novel preclinical micro-CT system in vitro and in vivo studies in Taiwan 羅翊文 , 柯建志 , 李智賢 , 邱顯智 , 呂承侻 , 陳思妤 , 楊文傑 , 胡明欽 , 楊邦宏 , 黃文盛 , 劉仁賢 Yi-Wen Lo[1a], Chien-Chih Ke[2,3b], Jhih-Shain Lee[4], Hsien-Chih Chiu[5], Cheng-Hsu Lu[5,6], Sih-Yu, Chen[4], Wen-Chieh Yang[4], Ming-Chin Hu[4], Bang-Hung Yang[1,5,6*], Wen-Sheng Huang[1], Ren-Shyan Liu[1,5,6,7*]

海報編號	論文題目
MI018	Systemic change of microRNAs in rhenium-188 liposome treated human head and neck cancer cells profiling by openarray 林秉澤，張淳湲，張志賢，李易展 BING-ZE LIN(1), Chun-Yuan Chang(1), Chih-Hsien Chang(3), Yi-Jang Lee(4)
MI019	Investigating Therapeutic Mechanism behind Hyaluronic acid and Platelet-rich Plasma therapy against knee osteoarthritis Abhinay Kumar Singh, Navneet Kumar Dubey, 鄧文炳 Abhinay Kumar Singh, Navneet Kumar Dubey, Win-Ping Deng*
MI020	Differentiation of Osteosarcoma Recurrence Based on PET-CT Radiomics 廖建一 [1], 盧家鋒 [1], 楊邦宏 [1,2], 劉仁賢 [1,2] Chien-Yi Liao [1], Chia-Feng Lu[1], Bang-Hung Yang [1,2], Ren-Shyan Liu [1,2]
MI021	Identification of metastatic CTCs by using Twist promoter-driven reporter gene and peptide bait 辜敏慈 , 歐依甄 , 何巧鈴 , 胡倫 , 劉仁賢 Min-Tzu Ku, Yi-Jhen Ou, Cheau-Ling Ho, Luen Hwu, Ren-Shyan Liu

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海報編號	論文題目
CM086	Study of drug V reduced type 2 diabetes by increasing the expression of glucose transport proteins. 朱芳儀，林雲冰 Fang-Yi Chu, Yum-Ping Lim
CM087	The Role of Androgen Receptor in Regulating Metabolic Enzymes in Prostate Cancer Cells 林巧雯 , 袁大鈞 Chiao-Wen Lin , Ta-Chun Yuan
CM088	Interleukin 4 and Interleukin 13 Stimulate Proliferation of Mammary Cells through Up-regulation of IRS-1 賴慶宏，郭珈諭，鄭宗林，李宜儒 Ching-Hong Lai, Jia-Yu Kuo, Tsung-Lin Cheng, and Yi-Ju Lee*
CM089	Assessing the Cognitive Function of Drosophila with the Changes of Feeding Preference 余至傑 , 陳怡妤 , 張夆昌 , 高智飛 * Yu Chih-Chieh, Chen I-Yu, Chang Ferng-Chang, Kao Chih-Fei*
CM090	Estrogen Receptor α Regulates The Expression of Metabolic Enzymes in Cancer Cells 姚翔，袁大鈞 Xiang Yao, Ta-Chun Yuan
CM091	Mangiferin Enhances Cisplatin-Induced Apoptosis in Non-Small Cell Lung Cancer Cells by Upregulating Clock Genes Expression 陳佳妮 , 王嬿琳 , 李佳勳 , 吳承修 * Jia-Ni Chen, Yen-Lin Wang, Jia-Syun Li, Chen-Shiou Wu*
CM092	To investigate the immune-modulation potential and the protective effects of atypical chemokine receptor (ACKR) gene therapy via adeno-associated viral vector in EAE Jing-Wun Chen[1,2], Xin-Gou Hsu[2,3], Kai-Chen Wang[4], Wan-Fu Hsu[2], Gu-Jiun Lin[5] and Shyi-Jou Chen[1,2,3]
CM093	Antiviral drug for CHIKV through entry blocking and replication inhibition 許君源 , 吳宗遠 CHUN-YUAN, HSU. Tzung- Yuan ,Wu
CM094	Test the activity of FNDC5 promoter in mammalian cells and establish a screening platform of irisin signal transduction drug 吳宗遠 陳癸云 Wu, Tzong-Yuan,CHEN,KUEI-YUN

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CM095	The study of the G2/M arrest effects by curcumin derivative (CM-F-A) on human compatriot primary colorectal cancer cell lines 謝承洋、徐怡強、洪朝明 Cheng-Yang Hsieh , Yi-Chiang Hsu , Chao-Ming Hung
CM096	The effects of TXAS and miR-221/222 depletion on mouse embryonic development and fertility. 莊雅柔 , 林淑容 Ya-Rou Chuang, Shu-Rung Lin
CM097	Effect of LongAn seed extracts in Staphylococcus aureus proliferation 溫品芸 Pin-Yun Wen
CM098	Evaluation of Antioxidative Capacity and Biological Activities of Extracts from Djulis on Human Breast Cancer Cells Yu-Siang Chen[1] , Yun-Yun Yang[1], I-Hsiao Chen[2], I-Fen Chen[1]*
CM099	Withaferin A attenuates both viability and motility of lung cancer cells via downregulatingboth mir-10b and mir-27a miRNAs in a p53-depedent manner 林貞局 , 翁鉦凱 , 吳俊錡 Chen-Chu Lin, Chen-Kai Wan, Chun-Chi Wu
CM100	Effect of α-MSH in Fibroblast Cells of Thyroid Eye Disease 蔡沛蓁、鄭珮妏、戴明泓、畢勇賢 Pei-Jhen Tsai, Pei-Wen Cheng , Ming-Hong Tai,Youn-Shen Bee
CM101	Noscapine attenuated EAE disease by reducing the production of Th17 cells and the expression of HIF1α 蔡忠穎，張嚴方，葛依青，林銜德，楊皇煜 TSAI, CHUNG-YING; CHANG, YEN-FANG; KO, YI-CHING; LIN, XIAN-DE; YANG, HUANG-YU
CM102	Persistent development of adomavirus and aquareovirus in a novel cell line from marbled eel with petechial skin hemorrhage 包惠宇、吳承瑜、黃喬宣、溫秋明 * H.Y. Pao , C.Y. Wu, C.H. Huang and C.M. Wen*
CM103	Luteolin plus Trans-chalcone Affects the Physiological Characteristics of Mouse Dendritic Cells 曾德誠 , 莊晶晶 De-Cheng Zeng , Jing-Jing Chuang
CM104	Immunosuppressive Effect of Uraria crinita (L.) Desv. ex DC. Components on Dendritic Cells 詹芷如 [1], 杜秉宸 [2], 林民昆 *,[1], 李孟修 *,[1] Chih-Ju Chan[1], Ping-Chen Tu[2], Ming-Kuem Lin*,[1], Meng-Shiou Lee*,[1]
CM105	Specific Effects of Polysaccharide of San-huang-xie-xin-tang on Dendritic Cell through Gut E. coli O86 劉宜欣 , 劉伊真 , 林民昆 * Yi-hsin Liu, Yi-Chen Liu, Ming-Kuem Lin
CM106	Molecular Characterization of A Synthesized Flavonoid on Human Keratinocyte HaCaT Cells 林室含，何文岳，李冠漢，劉坤湘 Shi-Han Lin, Wen-Yueh Ho, Kuan-Han Lee, Kun-Hsiang Liu
CM107	Effects of Tubeimoside-1 and Ursolic acid on imatinib-resistant chronic myeloid leukemia cells. 謝宜靜 , 黃惠美 Yi-jing Sie, Huei-Mei Huang
CM108	Electrical Stimulation Affected the Gene Expressions and Bioactivity of Chromatophores of Zebrafish (Danio rerio) Embryos 莊穎華 *, 汪潔 , 張羽萱 , 李采諭 , 張雲翔 , 黃尉東 # Ying-Hua Chuang*, Jie Wang , Yu-Hsuan Chang, Tsai-Yu Lee, Yun-Shiang Chang, and Wei-Tung Huang#
CM109	Piperlongumine induces cholangiocarcinoma cell death through activation of Erk signaling pathway 黃心怡 , 陳三元 , 林函霈 , 方瓊瑤 Hsin-Yi Huang, San-Yuan Chen, Han-Pei Lin, Chiung-Yao Fang

海報編號	論文題目
CM110	DTL siRNA Inhibited Cell Proliferation, Induced Cell Apoptosis, Senescence and Chromosomal Instability in Ovarian Cancer Cells 潘弘偉 [1#,*], 林欣穎 [2#], 蔡曉文 [2*] Hung-Wei Pan [1#,*], Hsin-Ying Lin [2#], Hsiao-Wen Tsai [2*]
CM111	Protective Effect of Cordyceps militaris Fruity Bodies on Lipopolysaccharides-induced Acute Lung Injury in Mice 謝承錡，李季庭，黃子綾，許妙珊，黃襄國，王淑紅，蔡明勳 Cheng-Chi Hsieh, Chi-Ting Li, Zi-Ling Huang, Miao-Shan Hsu, Ng-Shang Kok, Sue-Hong Wang, Ming-Shiun Tsai
CM112	Modulating the activity of Dendritic Cell Vaccine through manipulating the expression of an RNA binding protein in murine Glioblastoma model 潘志明 , 張哲愷 , 徐婕琳 , 邱紹智 Chih-Ming Pan, Che-Kai Chang, Jye-Lin Hsu, Shao-Chih Chiu
CM113	Biosafeties of Novel Ti6Al4V Bone Plates with Surface Modifications Grafting by Titanium Nitride, Acrylamide, and Bone Morphogenetic Protein 2 李季庭，謝承錡，吳宛玉，廖淑娟，許鈞智，黃襄國，王淑紅，許玉軒，鄒錫凱，陳萬宜，蔡明勳 Chi-Ting Li, Cheng-Chi Hsieh, Wan-Yu Wu, Shu-Chuan Liao, Chun-Chih Hsu, Ng-Shang Kok, Sue-Hong Wang, Yu-Hsuan Hsu, Hsi-Kai Tsou, Man-Yee Chan, Ming-Shiun Tsai

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海報編號	論文題目
TX061	Physical exercise and glycine analogue modulate psychiatric phenotypes in mouse model of maternal immune activation 洪筠婷 [1], 陳紹寬 [1], 張家銘 [2], 詹銘煥 [*1] Yun-Ting Hung[1], Shau-Kwaun Chen[1], Jia-Ming Chang[2], Ming-Huan Chan[*1]
TX062	The Synergistic Effect on the Antioxidant Activity of GABA Tea Containing Mulberry Leaf 程淑慧 [1*], 王雪芳 [1], 周宜臻 [1], 江冠瑩 [1], 顏珮玲 [1], 游姿瑩 [1] Shur-Hueih Cherng[1*], Hsueh-Fang Wang[2], Yi-Zhen Zhou[1], Guan-Ying Jiang[1], Pei-LingYan[1], Tzu-Ying Yu[1]
TX063	Acrolein is involved in neurotoxicity induced by oxygen glucose deprivation 劉璟慧 [a], 劉宗榮 [a], 王湘翠 [b] Jin-Hui Liu [a], Tsung-Yun Liu [a], Hsiang-Tsui Wang [b]
TX064	Effects of Human Umbilical Cord-Derived Mesenchymal Stem Cells (hUC-MSCs) on Acute Cigarette Smoke-Induced Pulmonary Inflammation Model 陳孝岳 , 陳誼穎 , 林衛理 , 陳建翰 , 杜茂寬 , 莊校奇 Xiao-Yue Chen, Yi-Ying Chen, Willie Lin, Chien-Han Chen, Mao-Kuang Du, Hsiao-Chi Chuang
TX065	XBP1 in diabetic nephropathy: emphasized in the crosstalk between UPRs and exosome communication 陳佳煌 , 姜至剛 Jia-Huang Chen, Chih-Kang Chiang
TX066	Acrolein Metabolites Identification Following Dietary Exposure in Healthy Subjects 王澤文 [1], 劉宗榮 [1], 王湘翠 [2] Tse-Wen Wang[1], Tsung-Yun Liu[1], Hsiang-Tsui Wang[2]
TX067	Mixture risk assessment and prioritization for the Taiwanese population exposed to aldehydes 丁琬庭 , 黃士軒 , 楊振昌 , 康照洲 , 林嬪嬪 , 林怡君 Wan-Ting Ting[1], Shih-Hsuan Huang[2], Chen-Chang Yang[3], Jaw-Jou Kang[1], Pinpin Lin[4], Yi-Jun Lin[1,*]
TX068	The mechanism of TGF-beta-induced sarcopenia and the role of extracellular vesicle 鄭詠翰 鄭佳容 姜至剛 Cheng, Yung-Han, Cheng, Jia-Rong, Chiang, Chih-Kang

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TX069	The Effect of Betel Quid Chewing on Smoking Induced Oxidative Stress 柯曉彤 [1]，鄒瀚興 [2]，劉宗榮 [1] Hsiao-Tung Ko[1], Han-Hsing Tsou[2], Tsung-Yun Liu[1]
TX070	Computational Screening of Chemicals Toxic to Neuronal Cells 甘鴻霖 [1], 林英琦 [1,2], 王家琪 [1,2], 童俊維 [1,2,*] Hung-Lin Kan [1], Ying-Chi Lin [1,2], Chia-Chi Wang [1,2], Chun-Wei Tung [1,2,*]
TX071	Sarcosine Reduced The Motivation And Reinstatement On Ketamine Seeking Behavior In Rats. 蕭宇晴 [1,3]，李美儀 [1]，黃姿蓉 [1]，陳慧誠 [1,2*] Yu-Ching Hsiao[1,3], Mei-Yi Lee[1], Tzu-Jung Huang[1], Hwei-Hsien Chen[1,2*]
TX072	Safety Evaluation of Chinese Medicine products using Pb4O3, be called HuangDan(黃丹) 李青澔 康照洲 鄭幼文 Li, Ching-Hao Kang, Jaw-Jou Cheng, Yu-Wen
TX073	Establishment of a Prediction Model of Breast Cancer Using Estrogen Quinone-Derived Protein Adducts as Biomarkers 李冠儀，廖文碩，林喆，陳達人，謝為忠，林伯雄 Kuan-Yi Lee, Wun-Shuo Liao, Che Lin, Dar-Ren Chen, Wei-Chung Hsieh, Po-Hsiung Lin
TX074	Cytotoxicity assessment and regulative effect of herbal compounds of adding Kushen and Zisuye on degranulation and inflammatory mediator release in RBL-2H3 Cells 廖俊麟 [1]，羅彥鈞 [1]，李懿庭 [1]，林志男 [2]，蔡韙任 [1*] Chun-Lin Liao[1], Yen-Chun Lo[1], Yi-Ting Li[1], Chih-Nan Lin[2], Wei-Ren Tsai[1*]
TX075	Effects of Triclosan on Uterine Smooth Muscle Contractile Response: Nitric Oxide- and Reactive Oxygen Species-Independent 顏嘉宏，李俊欣，張雅淳，何啟銓，廖遠東，謝季吟，顏宏愷，鄭丞傑 Chia-Hung Yen, Jun-Xin Li,Ya-Chun Chang, Chi-Chuang Ho , Ean-Tun Liaw, Chi-Ying Hsieh, Hung-Kai Yen, Cherng-Jye Jeng
TX076	Control of cancer growth and anti-apoptosis by microRNA-31-5p confers colorectal cancer cells resistance to Oxaliplatin 許希賢 [1,2]，施惠儂 [6]，鄭淑妃 [7]，郭薇雯 [4]，廖柏翔 [6*]，黃志揚 [3,5,6*] Hsi-Hsien Hsu[1,2], Hui-Nung Shih[6], Sue-fei Cheng[7], Wei-Wen Kuo[4], Po-Hsiang Liao[6*], Chih-Yang Huang[3,5,6*]
TX077	Risk 21 for Human Health Risk Assessment with Famoxadone Residue in Grape 呂水淵、廖婧淳、牟為謙、陳敏貞、姚成瑞、蔡韙任 Shui-Yuan Lu, Jing-Chun Liao, Wei-Chien Mou, Min-Chen Chen, Cheng-Ruei Yao, Wei-Ren Tsai
TX078	Risk 21 for Human Health Risk Assessment with Acetamiprid Residue in Grape 呂水淵、廖婧淳、牟為謙、陳敏貞、姚成瑞、蔡韙任 Shui-Yuan Lu, Jing-Chun Liao, Wei-Chien Mou, Min-Chen Chen, Cheng-Ruei Yao, Wei-Ren Tsai
TX079	Risk 21 for Human Health Risk Assessment with Boscalid Residue in Grape 呂水淵、廖婧淳、牟為謙、陳敏貞、姚成瑞、蔡韙任 Shui-Yuan Lu, Jing-Chun Liao, Wei-Chien Mou, Min-Chen Chen, Cheng-Ruei Yao, Wei-Ren Tsai
TX080	Myocardial protection of Sophora japonica against doxorubicin induced cardiotoxicity in mice 畢偉楓 [1]，吳進益 [2]，黃麗文 [3]，吳明順 [4,5*] and 楊玲玲 [3,6,*] Wei-Fung Bi [1], Jin -Yih Wu [2], Li Wen Huang[3], Ming-Shun Wu [4,5*] and Ling- Ling Yang [3,6,*]

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PY136	The role of Cav1 in the regulation of YAP nuclear translocation in Ha-RasV12-overexpressing MDCK cells 吳俐瑩，林錫慧，湯銘哲 Li-Ying Wu, Hsi-Hui Lin, Ming-Jer Tang

海報編號	論文題目
PY137	Effects of perilla oil on ethanol-induced gastric ulcer 黃祥禎[1]，蔡琇媚[2]，李驊容[2]，陳怡如 4，黃向陽[2]，吳賜猛[3]，謝建正[1,2] Hsiang-Chen Huang[1], Shiou-Mei Tsai[2], Hua-Rong Li[2], Yi-Ru Chen[4], Hsiang-Yang Huang[3], Semon Wu[3], Chien-Cheng Hsieh[1,2]
PY138	Praeruptorin A Inhibits the Migration and Invasion of Human Hepatocellular Carcinoma Cell through Activation of ERK and p38 Pathways and Inhibition of MMP-2 and MMP-9 Expression 徐崇恩 , 謝逸憲 , 邱慧玲 Chung-En Hsu , Yi-Hsien Hsieh, Hui-Ling Chiou
PY139	Spinal MLL1-WDR5 Interaction-Dependent H3K4me3 Enhances mGluR5 Transcription to Mediate Neuropathic Pain 賴政遠[1]，謝明君[1]，何昱征[1]，陳進典[2]，溫揚正[1,3]，林則彬[3,4,5]，彭賢祐[1*] Cheng-Yuan Lai[1], Ming-Chun Hsieh[1], Yu-Cheng Ho[1], Gin-Den Chen[2], Yang-Cheng Wen[1,3], Tzer-Bin Lin[3,4,5], Hsien-Yu Peng[1*]
PY140	Green tea catechins inhibit HIB1B brown preadipocyte growth 鄒宇涵[1] 鄭喻心[1] 蕭安淇[1] 古惠珍[2] 崔以威[3] 林彥瑜[3] 郭佑啟[4] 高永旭[1] Yu-Han Tsou[1], Yu-Hsin Cheng[1], An-Ci Siao[1], Hui-Chen Ku[2], Yi-Wei Tsuei[3], Yen-Yue Lin[3], Yow-Chii Kuo[4], and Yung-Hsi Kao[1]
PY141	Investigating The Effect of Methylglyoxal-induced Alterations on Mitochondrial Morphology 盧雪珍 , 傅渝庭 , 黃乃瑰 , 黃春霖 Shere-Jen Lu, Yu-Ting Fu, Nai-Kuei Huang, Chuen-Lin Huang
PY142	Effect of Diosgenin on Steroidogenic Pathway in the Leydig Cell of Rat 唐筱茜[1]・洪孝沂[1]・黃柏豪[1]・郭東益[2]・廖娟妙[2]・余青翰[2] Hsiao-Chien Tang, Siao-Yi Hung, Bo-Hao Huang, Dong-Yih Kuo, Jiuan-Miaw Liao, and Ching-Han Yu
PY143	Simvastatin Inhibits Clear Cell Renal Cell Carcinoma Progression through Regulating the mTOR Signaling Pathway and RhoA Activity. 鄒方寧 , 阮淑慧 Fang-Ning Chou, Shu-Hui Juan
PY144	CCL5 regulating synaptogenesis promotes memory formation 周蕾妮 , 周思怡 Reni Ajoy, Szu-Yi Chou
PY145	Testis-Specific SEPT12 Expression Affects the SUN Protein Localization and is Involved in Mammalian Spermiogenesis 汪雅雲[1,2], 黃詩凱[2], 林盈宏[2] Ya-Yun Wang[1,2], Shi-Kae Wee[2], Ying-Hung Lin[2]
PY146	TBC1D21 Potentially Interacts with and Regulates Rap1 during Murine Spermatogenesis 柯智群[1,2], 汪雅雲[4], 吳盈羽[3], 辜韋智[6], 林盈宏[3] Chih-Chun Ke[1,2], Ya-Yun Wang[3,4], Ying-Yu Wu[3], Wei-Chi Ku[6], Ying-Hung Lin[3]
PY147	CDC42 Negatively Regulates Testis-Specific SEPT12 Polymerization 汪雅雲[1,2], 郭保麟[3], 林盈宏[2] Ya-Yun Wang[1,2], Pao-Lin Kuo[3] and Ying-Hung Lin[2]
PY148	GLYX-13 rescues chronic stress-induced depression-like behavior through its actions in the periaqueductal gray 賴政遠、彭賢祐、林則彬、謝明君、何昱征 Cheng-Yuan Lai, Hsien-Yu Peng, Tzer-Bin Lin, Ming-Chun Hsieh, Yu-Cheng Ho
PY149	Antioxidant Properties of Ocimum gratissimum Reduced Injury from Oxidative Stress in Varying Degrees 張三豐 , 劉哲育 , 黃志揚 , 陳科銘 , 蔡芳鈴 Sang Feng Chang, Jer-Yuh Liu ,Chih-Yang Huang, Ke-Min Chen, Fang-Ling Tsai
PY150	Microbiota in the reproductive tract: novel biomarkers for detecting endometriosis 顏曼如 , 蘇耘儀 , 張展瑜 , 李雅惠 , 許晉銓 Man-Ju Yen, Yun-Yi Sun, Peter Chang, Ya-Huei Li, Jim Jinn-Chyuan Sheu*
PY151	Characterization of the interactome and possible mechanism of SEPT14 in spermiogenesis 汪雅雲[1,2], 林盈宏[1] Ya-Yun Wang[1, 4], Tsung-Hsuan Lai[2,3], Han-Sun Chiang[3,4], Pao-Lin Kuo[5], Ying-Hung Lin[4]

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PY152	Morphine's reward and aversion: The paradoxical effect hypothesis of abused drugs 歐貞吟、吳季文、黃智偉 Chen Yin Ou, Chi-Wen Wu, Andrew Chih Wei Huang
PY153	The Lesion Effects of Two Subareas Prefrontal Cortex on the Object Recognition Memory: Compared with Stimulant Pre-exposure Treatment 楊依樺，陳碩甫，廖瑞銘 Yi-Hua Yang, Shuo-Fu Chen, and Ruey-Ming Liao
PY154	Effects of Diosgenin on the Sperm Quality of Rat 黃柏豪[1]・洪孝沂[1]・唐筱茜[1]・郭東益[2]・廖娟妙[2]・余青翰[2] Bo-Hao Huang[1] , Siao-Yi Hung[1] , Hsiao-Chien Tang[1] , Dong-Yih Kuo[2], Jiuan-Miaw Liao[2] , Ching-Han Yu[2]
PY155	Oleuropein mitigates mutant huntingtin induced mitochondrial and proteasomal defects in Huntington's disease model cells 黃梓甯 何盧勳 Zih-Ning Huang and Lu-Shiun Her
PY156	GSTO1-mediated lipid metabolism in bladder cancer via integrative lipidome and transcriptome approaches 郭鴻馨[1]；楊顓丞[2]；潘奕澄[1]；馬文隆*[1]；吳永昌*[3] Hung-Hsin, Kuo [1]; Juan-Cheng Yang [2] ; Yi-Cheng Pan [1]; Wen-Lung, Ma *[1]; Yang-Chang Wu *[3]
PY157	Behavior of posttraumatic stress disorder for pharmacological and nonpharmacological treatments in animal model. 余英豪、黃智 Ying Hao Yu and Andrew Chih Wei Huang
PY158	New Insight on Delonix regia Leaf Extract (DRLE)：The Renoprotective Effect on Chronic Kidney Disease 汪大年[1], 黃昭蓉[1] , 王淑綺[1,2]* Ta-Nien Wang [1], Jhao-Rong Huang[1], Shu-Chi Wang [1,2]*
PY159	Investigation of the amelioration effect of Moringa oleifera seed extract on diabetes and hypertension 李貫綸 , 林彥昌 Kuan-Lun Li, Yen-Chang Lin
PY160	Contribution of MMP2 Promoter Genotypes to Oral Cancer Susceptibility, Recurrence and Metastasis in Taiwan 許懷美[1,2], 蔡佳紋[1], 王韻琪[1], 張文馨[1,2], 施亮均[3], 洪義文[4], 楊怡津[4], 龔志力[5], 包大藹[1,2,6]* Huai-Mei Hsu[1,2], Chia-Wen Tsai[1], Yun-Chi Wang[1], Wen-Shin Chang[1,2], Liang-Chun Shih[3], Yi-Wen Hung[4], Yi-Chin Yang[4], Chi-Li Gong[5], Da-Tian Bau[1,2,6]*
PY161	Differentiation of Human Mesenchymal Stem Cells into Myofibroblast-Like Cells by Hepatoma-Derived Growth Factor 陳清元[1], 李佳容[1], 翁碧娟[1], 陳逸琪[1], 橫山一成[3,5], 郭富珍[2], 吳登強[1,3,4,5], 郭昭宏[1,3], 劉忠榮*[1,3] Ching-Yuan Chen[1], Chia-Jung Li[1], Bi-Chuang Weng[1], Yi-Chi Chen[1], Kazunari K. Yokoyama[3,4], Fu-Chen Kuo[2], Deng-Chyang Wu[1,3], Chao-Hung Kuo[1,3], Chung-Jung Liu*[1,3]
PY162	The Role of Insulin in Metabolic Syndrome-associated Male Hypogonadism 林張珉 , 許孟傑 , 王沐恩 , 黃謙 , 鍾德憲 , 邱智賢 , 吳兩新 Zhang-Min Lin, Meng-Chieh Hsu, Mu-En Wang, Chien Huang, De-Shien Jong, Chih-Hsien Chiu, Leang-Shin Wu
PY163	Isopentylamine induces cell death via MEK/MSK pathway in B16-F1 melanoma cells 賴儀芳、楊子芃 Yi-Fang Lai, Tzi-Peng Yang
PY164	Neuroprotective Effects of Pomalidomide against Traumatic Brain Injury in the Striatum through Suppression of Neuroinflammation, Oxidative stress, Aut 黃雅妮、王俊雅、賴建成、王家儀 Ya-Ni Huang, Jing-Ya Wang, Chien-Cheng Lai, Jia-Yi Wang

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PY165	Differential effects of sympatholytic agents on the power spectrum of rats during the cooling-induced hemodynamic perturbations. 童吉士 , 林鈺傑 , 劉亞平 , 謝孟廷 Che-Se Tung, Yu-Chieh Lin, Yia-Ping Liu, Mong-Ting Hsieh
PY166	miR-195 in the aging-associated changes affect cognitive function by sema 3A regulation 趙詠梅，甘逸凡，華瑜 Yung-Mei Chao, Yi-Fan Kan, Julie Y.H. Chan
PY167	Green tea inhibits the growth of human villous trophoblasts via the ERK, p38, AMP-activated protein kinase, and protein kinase B pathways 石麗珍 [1*], 林政賢 [2], 劉杭生 [1,2] , 吳秋燕 [2], 林鎮國 [2] Li-Jane Shih[1], Chen-Hsien Lin[2],Hang-Shen Liu[1,2] , Chiu-Yen Wu[2] and Cheng-Kuo Lin[2]
PY168	Mitochondria As The Therapeutic Target of Gastrodia Elata in Alleviating Mutant Huntingtin Aggregations 羅瑞蓮 , 黃春霖 , 黃乃瑰 Lo Jui-Lien, Chuen-Lin Huang, Nai-Kuei Huang
PY169	Impact of cadmium and glucosamine on cellular inflammation in prostate cancer cells 林芸樺 , 吳鈺琳 Yun-Hua Lin, Yuh-Lin Wu
PY170	Aberrant glucose metabolism promotes invasiveness and metastasis in colon cancer 林政緯 , 蔣明臻 Cheng-Wei Lin, Ming-Chen Chiang
PY171	Spinal CARM1 Governs an Epigenetic Mechanism Essential for the Development of Neuropathic Pain 謝明君 [1]，何昱征 [1]，賴政遠 [1]，陳進典 [2]，林則彬 [3,4,5]，溫揚正 [1,3]，彭賢祐 [1*] Ming-Chun Hsieh[1], Yu-Cheng Ho1[1], Cheng-Yuan Lai1[1], Gin-Den Chen[2], Tzer-Bin Lin[3,4,5], Yang-Cheng Wen[1,3]，Hsien-Yu Peng[1*]
PY172	Transcription Repressor Hes1 Contributes to Neuropathic Pain Development by Modifying CDK9/RNAPII-Dependent Spinal mGluR5 Transcription 謝明君 [1#]，彭賢祐 [1#]，何昱征 [1]，賴政遠 [1]，鄭仁坤 [1,2]，陳進典 [3]，溫揚正 [1,4]，林則彬 [4,5,6*] Ming-Chun Hsieh[1#], Hsien-Yu Peng[1#], Yu-Cheng Ho[1], Cheng-Yuan Lai[1], Jen-Kun Cheng1[1,2], Gin-Den Chen[3], Yang-Cheng Wen[1,4], Tzer-Bin Lin[4,5,6*]
PY173	Melatonin Protects Human Skeletal Muscle Myoblasts from Stress- and Niche- Induced Aging through mTOR-dependent signaling 卓詩涵 , 于家城 , 張孜菁 Shih-Han Cho , Chia-Cherng Yu , Tzu-Ching Chang
PY174	The Role of Autophagy in High-Fat Diet-Induced Insulin Resistance of Adipose Tissues 李宜軒、王沐恩、黃謙、許孟傑、鍾德憲、吳兩新、邱智賢 Yi-Hsuan Lee, Mu-En Wang, Chien Huang, Meng-Chieh Hsu, De-Shien Jong, Leang-Shin Wu, Chih-Hsien Chiu
PY175	Intra-articular Injection of Stromal Vascular Fraction Reduces Tissue Damage from Osteoarthritis 楊皖婷 [1], 葛俊言 [2,3], 黃士耕 [1], 林子揚 [1], 吳文田 [1,4], 李茹萍 [1*] Wan-Ting Yang[1], Chun-Yen Ke[2,3], Shyh-Geng Huang[1], Zi-Yang Lin[1], Wen-Tien Wu[1,4], Ru-Ping Lee[1*]
PY176	The Treatment Effects of Freshwater Clam Extract and Tetracycline on Urinary Tract Infection 黃士耕 [1]、葛俊言 [2,3]、楊皖婷 [1]、林子楊 [1]、李茹萍 [1] Shyh-Geng Huang[1], Chun-Yen Ke[2,3], Wan-Ting Yang[1], Zi-yang Lin[1] , Ru-Ping Lee[1]
PY177	A new method for wound adhesion force measurement in animal model 葛俊言 [1,2]、楊皖婷 [3]、黃士耕 [3]、李茹萍 [3] Chun-Yen Ke[1,2], Wan-Ting Yang[3], Shyh-Geng Huang[3],Ru-Ping Lee[3*]
PY178	Angelica dahurica and Rheum officinale Extract Improves Wound Healing through Antimicrobial and Anti-inflammatory Effects in S.aureus–infected Wounds 楊皖婷 [1], 葛俊言 [2,3], 黃士耕 [1], 林子揚 [1], 吳文田 [1,4], 李茹萍 [1*], 曾義雄 [1,5*] Wan-Ting Yang[1], Chun-Yen Ke[2,3], Shyh-Geng Huang[1], Zi-Yang Lin[1], Wen-Tien Wu[1,4], Ru-Ping Lee[1*], and Yi-Hsiung Tseng[1,5*]

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PY179	Stress and morphine-induced conditioned place aversion in rats 盧裕壬 黃智偉 Yu Ren Lu and Andrew Chih Wei Huang
PY180	Interrogation of neural circuits in chronic nitroglycerin-induced mechanical hyperalgesia 連正章、王署君 Cheng-Chang Lien, Shuu-Jiun Wang

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PH112	RanBP2/Nup358 Promotes ATR-Chk1 Signaling for Checkpoint Activation 涂芷瑄 , 吳青錫 Jyy-Shiuan Tu and Ching-Shyi Wu
PH113	Evaluating the beneficial effects of antidepressant treatment on high-fat diet induced metabolic disorders in mice 邱彥儒 , 陳韻雯 * Yen-Ju Chiu , Yun-Wen Chen
PH114	L5-induced oxidative stress cause HAECs apoptosis via IKK pathway 蔡秉宣 , 陳莉蓁 , 陳芳玉 , 沈明毅 Ping-Hsuan Tsai , Li-Zhen Chen , Fang-Yu Chen , Ming-Yi Shen
PH115	Topical application of culture-type coral extract alleviates inflammatory effects and atopic dermatitis-like lesions in DNCB-induced murine models. 唐世軒 [1], 陳佩津 [2], 宋秉鈞 [1,3,4], 溫志宏 [1,2] Shih-Syuan Tang [1], Pei-Chin Chen [2], Ping-Jyun Sung [1,3,4], Zhi-Hong Wen[1,2]
PH116	Fucoidan Induces Apoptosis and Cell Cycle G1 Arrest Through Regulation of Transcription Factors STAT3 and NF-κB in Human Hepatoma Cells 翁永弘 , 楊軍建 , 林暐棟 , 林于傑 , 田堉宏 , 陳永佳 Yun-Hong Wong, Chun-Chien Yang, Wei-Tung Lin, Yu-Chieh Lin, Yu-Hung Tian, Yung-Chia Chen
PH117	Anandamide Induced Hepatoma Cell Apoptosis May through Epigenetic HDAC Regulation. 楊軍建 , 翁永弘 , 林于傑 , Valens Munyembaraga, 林暐棟 , 田堉宏 , 張秀美 , 邱慧芬 , Chun-Chien Yang, Yun-Hong Wong, Yu-Chieh Lin, Valens Munyembaraga, Wei-Tung Lin, Yu-Hung Tian, Hsiu-Mei Chang, Hui-Fen Chiu
PH118	UV-Protective Compounds Characterization and Biosynthetic Gene Cluster Identification in Micrococcus Luteus 王瀞瑢 [1], 李冠漢 [2,3], 葉旭華 [2,3]*, 張書林 [1,2] Jing-Rong Wang[1], Kuan-Han Lee[2,3], Hsu-Hua Yeh[2,3]*, Shu-Lin Chang1[1,2]
PH119	Evaluating the Beneficial Effects of Peroxisome Proliferator-Activated Receptor-Gamma Agonist Treatment on High-Fat Diet –Induced Depression-Like Behavior in Mice 林英耀 , 陳韻雯 Ying-Yiu Lam , Yun-Wen Chen
PH120	Hernandonine Induces Nucleolar Stress in Human Cancer Cells 陳彥廷 王湘翠 陳日榮 Yen-Ting Chen Hsiang-Tsui Wang Jih-Jung Chen
PH121	Hyperbaric Oxygen Therapy Ameliorates Pathophysiology of 2xTg-AD Mouse Model by Enhancing Autophagy 黃政維 , 張雅雯 * Cheng-Wei Huang, Alice Y.W. Chang*
PH122	The anti-cancer effects of turmeric (Curcuma longa) combined with 5-fluorouracil treatment in BALB/c Mice baring CT-26 cells 莊于瑭、李懿帆、謝瑞裕、張耿瑞 Yi-Tang Chong, Jul-Yu Hsieh, Yi-Fan Li, Geng-Ruei Chang

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PH123	Combinational Effect of Vitamin Supplementation and Antiepileptic Drugs alleviates Mood Disorders Induced by Epilepsy 郭怡欣 , 張雅雯 * Yi-Hsin Kuo, Alice Y.W. Chang*
PH124	The anti-cancer effects of fermentation broth combined with 5-fluorouracil treatment in BALB/c mice bearing CT-26 cells Li-Wen Pan, Chia-Hui Kuo, Yi-Chung Lai, Cheng Huang, Geng-Ruei Chang
PH125	Explore antrodia cinnamomea mycelium for the impact of plasma lipid in leptin deficiency mice (ob/ob) 劉安喬 , 陳瑛宜 , 何偉真 , 張世良 An-Qiao Liu , Yin-I Chen , Wai-Jane Ho , Shih-Liang Chang
PH126	Effect of Trametes versicolor on analgesic and anti-inflammatory in rats 李聖農 [1]，陳怡如 [1]，陳瑛宜 [1]，徐泰浩 [2]，張世良 [1] Sheng-Nung Lee[1]，Yi-Ru Chen[1]，Ying-I Chen1[1]，Tai-Hao Hsu[2]，Shih-Liang Chang[1]
PH127	Effects of stimulating ST36 combined with oral taking losartan on blood pressure in streptozotocin induced hyperglycemic rats 林子筠 *、陳瑛宜、張世良 Zi-Yun Lin*, Ying-I Chen, Shih-Liang Chang
PH128	Acupuncture prevents morphine tolerance in a mouse neuropathic pain model 李鳴達 , 陳易宏 , 邱麗珠 Ming Tatt Lee, Yi-Hung Chen, Lih-Chu Chiou
PH129	To evaluate the potential role of CIX2X as a neuroprotective compound on paclitaxel-induced neuropathy 黃郁茹 , 陳羿帆 , 沈孟儒 Yu-Ru Huang, Yi-Fan Chen, Meng-Ru Shen
PH130	Mirtazapine prevent against high fat diet–induced obesity in C57BL/6J mice Yi-Tang Chong, Po-Hsun Hou, Shin-Chen Yeh, Kam-Hou Choi, Frank Chiahung Mao, Geng-Ruei Chang
PH131	CASK Deficiency Reduced Keratinocyte Proliferation and Impaired Metabolism 王逸璇 [1], 黃婷茵 [1], Ponarulselvam Sekar[2], 林琬琬 [1]* Yi-Xuan Wang[1], Duen-Yi Huang[1], Ponarulselvam Sekar[2] and Wan-Wan Lin[1]*
PH132	The effect of Ophiocordyceps sinensis on lowering effect of plasma glucose and plasma free fatty acid in high-fat diet induced hyperglycemic rats 黃苡庭 , 林高有 , 張岑綾 , 陳瑛宜 , 徐泰浩 , 張世良 * I-Ting Huang[#], Gao-You Lin, Tsean-Ling Chang, Ying-I Chen, Tai-Hao Hsu, Shih-Liang Chang*
PH133	Curcumin protects against sepsis-induced cardiac dysfunction and electromechanical abnormalities in guinea pigs via restoration of depressed L-type Ca2+ current 張國志 *, 葉勇信 , 陳偉踐 Gwo-Jyh Chang*, Yung-Hsin Yeh, Wei-Jan Chen
PH134	Up-regulation of Fc γ RIIB by resveratrol via NF- κ B activation reduces B-cell numbers and ameliorates lupus 周峻霈 , 陳思潔 , 黃合吟 , 蕭文鈺 , 曾賢忠 Jyun-Pei Jhou, Se-Jie Chen, Ho-Yin Huang, Wen-Yu Hsiao, Shiang-Jong Tzeng
PH135	Effects of Salubrinal-induced Integrated Stress Response in Human Oral Cancer Cells 潘怡陵 , 羅正汎 , 李新城 Yi-Ling Pan, Jeng-Fan Lo, Hsin-Chen Lee
PH136	YC Induces Autophagy and Apoptosis in Human Oral Squamous Cell Carcinom 郭宥希 [1], 周安婕 [1], 林吟品 [1], 李建興 [1&2] Yu-Hsi Kuo,An-Jie Jhou, Lee Yin-Pin, Lin Chien-Hsing Lee
PH137	FIRST-LINE THERAPY OUTCOMES IN PATIENTS WITH ADVANCED/METASTATIC STS: REAL WORLD EXPERIENCE IN TAIWAN 鍾鏡湖 Department of Medicine, Mackay Medical College, New Taipei City, Taiwan

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PH138	The Pathogenesis Role of Sirt3-AMPK in Oxidative Stress-induced Hypertension in Brain Stem Nuclei 何秋億 *[1,2] , 鄭珮妏 [1] , 陳信宏 [1] , 曾清俊 *[1,2] Chiu-Yi Ho[1,2], Pei-Wen Cheng[1], Hsin-Hung Chen[1], Ching-Jiunn Tseng[1,2]
PH139	Characterization of Selectin DNA Aptamer Targeting Activated Platelets 傅韋姍 , 廖庠睿 , 馬蘊華 Wei-Shan Fu, Hsiang-Ruei Liao, Yunn-Hwa Ma
PH140	Thromboelastometry Analysis of Fibrin-Targeting Nanocomposite-Induced Lysis of Human Clot 徐滋遠，陳懷安，陳志平，馬蘊華 Tzu-Yuan Hsu, Huai-An Chen, Jyh-Ping Chen, Yunn-Hwa Ma
PH141	Cigarette smoke extract and benzo(a)pyrene induce osteopontin expression in lung cancer and promote mesenchymal stem cell recruitment 江雅靖 , 張安辰 , 陳柏均 , 湯智昕 Ya-Jing Jiang, An-Chen Chang, Po-Chun Chen, Chih-Hsin Tang
PH142	The role of oleic acid in the regulation of PD-L1 and metastasis-associated genes expression in head and neck squamous cell carcinoma. 黃晨豪，陳炳焜 Chen-Hao Huang, Ben-Kuen Chen
PH143	The regulation of cyclooxygenase-2 and angiopoietin-like 4 expression in EGF-treated head and neck squamous cell carcinoma 蔡承翰 , 吳沛庭 , 陳炳焜 * Cheng-Han Tsai, Pei-Ting Wu, Ben-Kuen Chen*
PH144	Multifunctional nanoparticles encapsulating chemotherapy and microRNA for tumor suppression 張誌顯 [1], 王晨燊 [1], 陳肇文 [1,2], 駱雨利 [1,3] Chih-Hsien Chang[1], Chen-Shen Wang[1], Jaw-Wen Chen[1,2], Yu-Li Lo1[1,3]
PH145	The Mechanisms Underlying Rhamnetin Inhibited Bradykinin-Induced Matrix Metalloproteinase-9 Expression in Rat Brain Astrocytes 于子堯，楊建中，曾惠卿，楊春茂 Zih-Yao Yu, Chien-Chung Yang, Hui-Ching Tseng, Chuen-Mao Yang
PH146	Role of Integrated Stress Response in Methamphetamine-induced Apoptosis of SH-SY5Y Cells Ching-Wun Chen, David H-T Yen, Jiin-Cherng Yen

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AN049	IL-26 stimulates macrophage toward M1 subtype differentiation via activate STAT1. 林宜萱 , 鄭珈毘 Yi-Hsuan Lin, Chia-pi Cheng
AN050	β-Lapachone diminishes the senescence by upregulating the levels of antioxidant enzymes in D-galactose-induced aged mice. 王韻茹 , 沈政瑩 , 詹凡儀 , 喻慶祥 , 廖恩慈 , 周逸鵬 Yun-Ju Wang, Cheng-Ying Shen, Fan-Yi Zhan, Ching-Hsiang Yu, En-Chih Liao, Yat-Pang Chau
AN051	Anticancer Activity of Morin in U87 and U251 Human Glioblastoma Cells 劉思岑 [1]，林玟圻 [1]，李學德 [1]，王懷詩 [1]，吳建春 [1]* Sih-Cen Liu[1], Wen-Chi Lin[1], Hsueh-Te Lee[1], Hwai-Shi Wang[1], Jiahn-Chun Wu[1]*
AN052	Gossypol induces apoptosis in glioblastoma via a caspase3-mediated pannexin 1 hemichannel activation 林玟圻 劉思岑 李學德 王懷詩 吳建春 Wen-Chi Lin, Sih-Cen Liu, Hsueh-Te Lee, Hwai-Shi Wang, Jiahn-Chun Wu

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AN053	Investigating the correlation of Noise-induced hearing loss and dopaminergic system using small animal-PET techniques 趙韻婷 [1] 周大凱 [2] 孫綠涵 [1] 王智弘 [3] 馬國興 [1] Yun-Ting Jhao[1]；Ta-Kai Chou[2]；Lu-Han Sun[1]；Chih-Hung Wang[3]；Kuo-HSing Ma[1]
AN054	The integrated curriculum of basic human biological sciences in medical education: a special focus on the digestive system 許書豪 Shu-hao Hsu
AN055	Effect of Anti-epileptic Drugs on Zebrafish Neuromast Hair Cells 游凌杰 , 洪君琳 Ling-Jie You, Jiun-Lin Horng
AN056	Aryl Hydrocarbon Receptor Deficiency Promote Insulin-like Growth Factor 1 Receptor Pathway in Bleomycin-induced Pulmonary Fibrosis 吳昇懋 [1], 許美鈴 [1,2*] Sheng-Mao Wu [1], Meei-Ling Sheu [1,2*]
AN057	The Study of 3D Printing Technology in Anatomy Teaching Application 陳加恩 , 黃雍協 , 吳俊賢 , 馬國興 Jia-En Chen, Yuahn-Sieh Huang,Chun-Hsien Wu, Kuo-Hsing Ma
AN058	Enhancing Cognitive Empathy by Role Playing in Problem-based Learning 周逸鵬 [1,#], 陳奕全 [1], 黃苓嵐 [1], 吳懿哲 [1,2], 王蒼恩 [1,2], 王順德 [1], 邱美妙 [1] Yat-Pang Chau[1,#], Yi-Chuan Chen[1], Ling-Lang Huang[1], Yih-Jer Wu[1,2], Tsang-En Wang[1,2], Shwun-De Wang[1], Mei-Miao Chiu[1]
AN059	虛擬實境（Virtual Reality, VR）技術在解剖教學上應用 蕭文銓、蕭校生、彭淑婷、劉欣宜、劉皓云、蔡國樞、鄭瓊娟 Wen-Chuan Hsiao、Hsiao-Sheng Hsiao、Shu-Ting Peng、Hsin-I Liu、Hao-Yun Liu、Kuo-Shu Tsai、Chung-Jiuan Jeng
AN060	The Study of Sclerostin & Sphingosine 1-Phosphate Signalings in Ovariectomy Inducing Osteoporosis rat 朱慈暉 [1], 林怡君 [1], 陳柏瀚 [1], 蕭鎮源 [2], 李以琳 [3], 何林佳 [3], 徐佳福 [1*] Tzu-Hui Chu[1], Yi-Jun Lin[1], Bo-Han Chen[1], Cheng-Yuan Hsiao[2], Yi-Lin Lee[3], Lin-Chia Ho[3], Jia-Fwu Shyu[1*]
AN061	Role of lysosome in MDMA-induced neurotoxicity 葉亭吟 , 黃雍協 Ting-Yin Yeh , Yuahn-Sieh Huang
AN062	Voxel-wise analysis of cerebral blood flow of acupuncture effect in healthy subjects with 99mTc-ECD SPECT 邱創新 *[1], 林慶恆 [2], 廖炎智 [1], 陳穎柔 [1], 李政育 [3] Chuang-Hsin Chiu*[1], Ching-Heng Lin[2], Yan-Jhih Liao[1], Ing-Jou Chen[1], Cheng-Yu Li[3]
AN063	The role of connective tissue growth factor (CTGF) during de- and re-myelination in the mouse brain 陳淳于，李立仁 Chwen-Yu Chen, Li-Jen Lee
AN064	Nerve Decompression Improves Spinal Synaptic Plasticity of Toll-like Receptor Subtype 5 for Pain Relief 張晴 , 劉紘愷 , 劉炯輝 , 廖智凱 , 廖玟潔 , 藍琴臺 , 曾拓榮 Ching Chang, Hong-Kai Liu, Chiung-Hui Liu, Chih-Kai Liao, Wen-Chieh Liao, Chyn-Tair Lan, To-Jung Tseng
AN065	Innovative teaching methods in using multiple learning tools to improve the concept of human body structure for medical students 魏一華、張綺芬、朱培銘、楊美芳、林嘉德、蔡孟宏 I-Hua Wei, Chi-Fen Chang, Pei-Ming Chu, Mei-Fang Yang, Chia-Der Lin, Mang-Hung Tsai
AN066	The Expression Pattern of Neuronal Intermediate Filament α-internexin in the Developing Pineal Gland of Hoplobatrachus rugulosus 林子純 , 廖孟琳 , 錢宗良 Tzu-Chuen Lin, Meng-Lin Liao, Chung-Liang Chien
AN067	Labeling The Wharton's Jelly Mesenchymal Stem Cells in Animal Model With IVIS Spectrum Imaging Analysis 蕭鎮源 , 蔡佩君 , 陳天華 , 徐佳福 Chen-yuan, Hsiao, Pei-Jiun Tsai, Tien-Hua, Chen, Jia-Fwu Shyu

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AN068	Efficacy Study of Norepinephrine Reuptake and Serotonin–Norepinephrine Reuptake Inhibitors on Trauma Induced Depression Symptoms in Rat Model 葉爵榮，李宜勳，金秦瑩，程君弘 Jue-Zong Yeh, I-Hsun Li, Chin-Ying Chin, Juin-Hong Cherng
AN069	Konckdown of the proton-sensing receptor, OGR1 in peripheral afferents shortens neuropathic pain through regulation of calcium signals 秦茵、孫維欣 Yin Chin、Wei-Hsin Sun
AN070	Mechanisms of the Pathologic Cell injury by MDMA (Ecstasy) 孫綠涵 , 黃雍協 , 馬國興 Lu-Han Sun, Yuahn-Sieh Huang, Kuo-Hsing Ma
AN071	Assessing the Atheroprotective Activity of Zibotentan Via Blocking the ET-1/ETA Binding Under Disturbed Flow. 黃永齡 , 林詠卿 , 莫凡毅 Yung-Ling Huang, Yung-Ching Lin, Fan-E Mo
AN072	Effect of resveratrol mediated Bone remodeling in Uremic Toxins Environment. 陳柏翰 [3,4] 劉文治 [1,2], 嚴靜芬 [3], 朱慈暉 [3], 徐佳福 [*3] Po-Han Chen Wen-Chih Liu[1,2], Jen-Fen Yen[3], Chu tzu hui, Jia-Fwu Shyu [*2,3]
AN073	Peroxisome proliferator–activated receptor– dependent control of hypoxia-inducible factors mediates migration and metastasis 歐蕙葶 , 許美鈴 Hui-Ting Ou, Meei-Ling Sheu

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海報編號	論文題目
BC129	Candidate Genes Association Study of Putative Enzymes of the Tricyclic Acid Cycle (Fumarase, Succinate Dehydrogenase, Aconitase) and Diabetic Nephropathy in Taiwanese Population. 廖文伶 , 蔡輔仁 Nguyen Tran The Hung1, Wen-Ling Liao[2 3], Yu-Huei Liu[2 7], Chia-Ming Wu[7], Ya-Fei Yang[4], Chiz-Jzung Chang[4 5], Fuu-Jen Tsai[6 7 8]
BC130	Exploring Cancer-Associated Microbiome Characteristics Using Large-Scale Patient Small RNA Sequencing Data 李偉豪 , 陳凱普 , 黃宣誠 , 阮雪芬 Wei-Hao Lee, Kai-Pu Chen, Hsuan-Cheng Huang and Hsueh-Fen Juan
BC131	Characterization of the functions of KIF5B in glucocorticoid-induced myogenesis 林中煒 郭津岑 Jong-Wei Lin Jean-Cheng Kuo
BC132	Molecular-scale biomimetic devices for the study of adhesive cross-talk in mesenchymal stem cell differentiation 吳旻璁 , Guilaume Le Saux, 郭津岑 , Mark Schvartzman Ming Chung Wu, Guilaume Le Saux, Jean Cheng Kuo, Mark Schvartzman
BC133	Geometrical control of stem cell fate by self-organization of cytoskeleton 歐孟鑫 [1], 陳胤全 [2], 王仰高 [3], 林耿慧 [4], 邱爾德 [5], 郭津岑 [1,2*] Meng-Hsin Ou[1], Yin-Quan Chen[2], Yang-Kao Wang[3], Kung-hui Lin[4], Arthur Chiou[5], Jean-Cheng Kuo[1, 2*]
BC134	Identification of Cellular Targets for Inhibiting MDA-MB-231 Migration and Invasion 楊明憲 , 梁博煌 Ming-Hsien Yang, Po-Huang Liang

海報編號	論文題目
BC135	Development of a Novel Nanoparticle in Combination with Dual Targeting and Therapeutic Drug Delivery Platform for The Treatment Prostate Cancer and Inhibition of Cancer Metastasis 陳繼芸 [1], 邱劭傑 [2], 朱珮儀 [1], 許哲瑜 [1], 曾彥鈞 [3], 黃群偉 [2]*, 林宥欣 [1]* Chi-Yun Chen[1], Shao-Chieh Chiu[2], Pei-Yi Chu[1], Che-Yu Hsu[1], Yen-Chun Tseng[3], Chiun-Wei Huang[2]*, Yu-Hsin Lin[1]*
BC136	Effect of hexahydrocrucumin on degranulation and Inflammatory Mediator Release in RBL-2H3 cells 袁本治 [1]、邵至謙 [2]、洪祥毓 [2]、張益誠 [2]、黃小萍 [2]、陳中一 [3]、郭順宇 [2] Yuan, Ben-Chih[1], Shao, Chih-Chien[2], Hung, Siang-Yu[2], Zhang, Yi-Cheng[2], Huang, Shiao-Ping[2], Chen, Chung-Yi[3], Kuo, Soong-Yu[2]
BC137	Application of Active Tumor-Targeted Nanoparticles for co-Delivery of Epigallocatechin Gallate and Doxorubicin in Gastric Cancer Therapy 許哲瑜 , 陳繼芸 , 朱珮儀 , 馮俊龍 , 賴盈靜 , 林宥欣 Che-Yu Hsu, Chi-Yun Chen, Pei-Yi Chu, Chun-Lung Feng, Ying-Jing Lai, Yu-Hsin Lin
BC138	The inhibitory effect of the anti-inflammatory agent Formosanin C on lung cancer cells through mitophagy and apoptosis 朱曼菱 學生 及 劉校生 老師 Man-Ling Chu, and Dr. Hsiao-Sheng Liu
BC139	Development and Characterization of DNA Aptamers for Cancer Therapy 蔣祖搴 [1], 賴薇云 [2], 楊泮池 [2], 李政忠 [1], 羅欣宜 [1], 王惠鈞 [1] Zu-Chian Chiang[1], Wei-Yun Lai[2], Pan-Chyr Yang[2], Cheng-Chung Lee[1], Shin-Yi Luo[1], Andrew H.-J. Wang [1]
BC140	Protective Effect of Supercritical Fluid Extraction of Agarwood on Oxidative Damage of Skin Cells Induced by BaP Combined with UVA 王瑋筑 [1]、林恩仕 [2]、莊正宏 [1]* Wei-Zhu Wang[1], En-Shyh Lin[2], Cheng-Hung Chuang[1]*
BC141	Hydrogen Peroxide Inducible Clone-5 Sustains Reactive Oxygen Species-JNK-c-jun Signaling and Regulates Epithelial to Mesenchymal Transition Transcription Factors in Hepatocellular Carcinoma Patient 謝長育 [1]、吳家如 [2]、尤仁音 [1]、胡志棠 [3]、吳文陞 [1] Rudy (Chang-Yu Hsieh)[1] , Jia-Ru Wu[2], Ren-In You[1], Chi-Tan Hu[3], Wen-Sheng Wu[1]
BC142	Improve the stability of antimicrobial peptide Q4a and evaluate its anticancer activity against 5-FU-, and Oxaliplatin-resistant colorectal cancer cell line HCT116 廖羿傑 [1], 郭星君 [2], 陳威戎 [1]* Yi-Jie Liao[1], Hsing-Chun Kuo[2], Wei-Jung Chen[1]*
BC143	Meta1-Dependent Metabolic Reprogramming Dictates Metastatic Potential in Cancer 張維哲 , 查岱龍 Wei-Tse CHANG, Tai-Lung Cha
BC144	Mechanistic insight into autophagic and DNA damaging actions of the survivin expression suppressant, YM155, in breast cancer cells 鍾校木，張雋曦 Siao Muk Cheng and Chun Hei Antonio Cheung
BC145	Delineation of iron metabolism in human prostate cancer cell invasion and progression 駱子瑜，林心瀅，李明學 Tzu-Yu Lo, Hsin-Yin Lin and Ming-Shyue Lee
BC146	Heparan sulfate targeting strategy of liposome facilitates drug accumulation and penetration into desmoplastic tumor 郭秉學、鄧薏賢、韓聞、黃健鈞、張大慈 Ping-Hsueh Kuo, Yi-Hsien Teng, Wen Han, Juan-Jun Huang, Margaret Dah-Tsyr Chang
BC147	Manzamine A Inhibits Uterine Leiomyoma Cells Proliferation via Endoplasmic Reticulum Stress 林俐均、張心儀、劉文善、陳欣媛、夏詩閔、黃翠琴 Li-Chun Lin, Hsin-Yi Chang, Wen-Shan Liu, Hsin-Yuan Chen, Shih-Min Hsia and Tsui-Chin Huang

海報編號	論文題目
BC148	Upregulation of CaM Mediated Drug Resistant Properties in HDACi- Treated Hepatocellular Carcinoma Cells Hang-Nga Le , Mei- Chih Chen , Wei-Wen Kuo , Chih-Yang Huang Hang-Nga Le , Mei- Chih Chen , Wei-Wen Kuo , Chih-Yang Huang
BC149	Optimizing cationic antimicrobial peptide sequences to enhance their anticancer activity against gastric cancer cell line AGS and evaluation of their combinatorial effects with chemotherapeutic drugs 柯品妤 , 劉瑋群 , 陳威戎 Pin-Yu Ke, Wei-Chun Liu, Wei-Jung Chen
BC150	A machine learning approach to estimate the Treg subset from tumor expression profiles 邱彥榕 , 謝宜軒 , 黃彥華 Yen-Jung Chiu, Yi-Hsuan Hsieh, Yen-Hua Huang
BC151	Expression and Cellular Localization of matriptase, HAI-1 and HAI-2 in Cutaneous T-cell Lymphoma 簡晨祐 [1*], 江建平 [1,2], 王正康 [1] Chen-Yu Chien[1*], Chien-Ping Chiang[1,2], Jehng-Kang Wang[1]
BC152	Development of Liposomal Irinotecan for Treatment of Colorectal Cancer in a Preclinical Model 黃教仁 , 李美賢 , 李文山 , 吳漢忠 * Jiao-Ren Huang, Mei-Hsien Lee, Wen-Shan Li, Han-Chung Wu*
BC153	Investigation of Molecular Mechanism in Mitochondria Fission Leading ATP Synthase toward Cell Surface 蔡漢萱 , 王薇瑄 , 侯恁慈 , 謝巧慧 , 張怡雯 , 黃宣誠 , 阮雪芬 * Han-Hsuan Tsai, Wei-Hsuan Wang, Jen-Tzu Hou, Chiao-Hui Hsieh, Yi-Wen Chang, Hsuan-Cheng Huang, Hsueh-Fen Juan*
BC154	Anti-EpCAM neutralizing antibody induces apoptosis in colon cancer cells through AKT/FOXO3a/HtrA2 cascade 梁剛豪，賴俊凱，藍濬鑫，Dr. 吳漢忠 * Kang-Hao Liang, Jun-Kai Lai, Chun-Hsin Lan and Han-Chung Wu*
BC155	SPARCL1 Suppresses the Proliferation and Migration in Upper Tract Urothelial Carcinoma and Enhances the Antitumor Effect with Cisplatin Treatment or Radiation Therapy 林新傑 [1], 蘇祐立 [2], 黃俊杰 [3], 李奈倫 [4], 林振頡 [2], 羅浩倫 [1*] Xin-Jie Lin[1], Yu-Li Su[2], Chun-Chieh Huang[3], Nai-Lun Lee4, Jen-Jie Lin[2], Hao-Lun Luo[1*]
BC156	Regulation of Energy Metabolism by Protein Cysteine 15-keto-PGE2-ylation 許曉薇 [1]，張以承 [1,2,3]，蘇寧 [4]，陳詩宜 [2]，謝孟倫 [2]，農君怡 [4]，黃敬詠 [2]，莊立民 [1,4*] Siow-Wey Hee[1], Yi-Cheng Chang[1,2,3], Lynn Su4, Shih-Yi Chen2, Meng-Lun Hsieh2, Jiun-Yi Nong[4], Lee-Ming Chuang[1,4]
BC157	Gender dimorphism and age-dependent changes of irisin expression in response to diet-induced sarcopenic obesity 文聖閔 , 金亭佑 Sheng-Min Wen, Ting-Yu Chin
BC158	Investigation of the relationship between lipoprotein and Glycated Albumin Wen-Tung Hsu [1], Hung-Chang Hsu[2], Chao-Hsun Hsu [3], Hsueh-Chun Wang[1], Hsiao-Chi Chen[1], Sheng-Huang Chang [4] and Li-Mien Chen [5]
BC159	Investigation of the Association between the Mutational Landscape of DNA Damage Repair Genes with High Tumor Mutational Burden in Different Cancers 邱妥苑 , 王禹超 To-Yuan Chiu，Yu-Chao Wang
BC160	Classification of Cancer Subtypes Using the Cell Populations of Tumor Infiltrating Lymphocytes 黃煒甯 , 王禹超 Wei-Ning Huang , Yu-Chao Wang

海報編號	論文題目
BC161	MicroRNA 5' Isoform Regulation in Lung Adenocarcinoma 賴舒婷 , 林振慶 Su-Ting Lai, Chen-Ching Lin
BC162	Investigation of The Influencing Factors of Microsatellite Instability (MSI) Status across Different Cancer Types 張原嘉 , 王禹超 Yuan-Chia Chang, Yu-Chao Wang
BC163	Mesenchymal Stem Cells Mediate Gastric Cancer Progression via HOXA9-PDGF Signaling 陳逸琪 [1], 李佳容 [1], 翁碧娟 [1], 陳清元 [1], 郭昭宏 [1,3], 橫山一成 [3,5], 郭富珍 [2], 吳登強 [1,3,4,5], 劉忠榮 *[1,3] Yi-Chi Chen[1], Chia-Jung Li[1], Bi-Chuang Weng[1], Ching-Yuan Chen[1] , Chao-Hung Kuo[1,3], Kazunari K. Yokoyama [3,5], Fu-Chen Kuo[2], Deng-Chyang Wu[1,3], Chung-Jung Liu*[1,3]
BC164	Effect of Curcuma longa Essential Oil on Human Keratinocyte Cells by Comet Assay 莊正宏 [1], 黃元韻 [2], 林恩仕 [3]* Cheng-Hung Chuang[1], and Yan-Yan Ng[2], En-Shyh Lin[3]*
BC165	Chemosensitizing Effect of TCD, a Triterpenoid Isolated from Wild Bitter Melon, in Human Adenocarcinoma Cells 蔡帛蓉、駱曉彤、趙涓含、劉俊仁 Po-Jung Tsai, Hio-Tong Lok, Chuan-Han Chao, and Jun-Jen Liu
BC166	Anti-hepatic Fibrosis Potential of Morus Root in vitro and in vivo 王詩穎 , 郭建庭 , 張哲愷 , 林偉隆 , 曾翠華 Shih-Ying Wang, Chien-Ting Kuo, Chen-Kai Chang, Wea-Lung Lin , Tsui-Hwa Tseng
BC167	Purification and Structure Determination of Anticancer Constituents from Michelia Champaca 謝嘉榮 Chia-Jung Hsieh
BC168	Ganoderma tsugae ethanol extract-mediated cellular differentiation in acute leukemia cells. 楊庭華 , 高銘欽 Ting-Hua Yang, Ming-Ching Kao
BC169	Protective Effects of ROS Damage and Linoleic Acid Hydroperoxide Induced Lipid Peroxidation on Rat Lung Mitochondria from Scutellaria baicalensis Root 廖培茹 [1,6]，吳明順 [2,3]，白冠壬 *[4]，楊玲玲 *[1,5] Pei Ru Liau [1,6], Ming Shun Wu [2,3], Kuan Jen Bai*[4], Ling Ling Yang*[1,5]
BC170	Mechanistic Investigation of Formosanin C Induced Head and Neck Cancer Cell Death and Advanced Formulation Design 陳靜怡 , 王佩文 , 楊理行 , 謝達斌 Jing-Yi Chen, Pei-Wen Wang, Li-Xing Yang, Dar-Bin Shieh
BC171	Investigation the roles and mechanism of calreticulin expression and membrane translocalization in HDAC inhibitor-resistance hepatocellular carcinoma cells 劉益昇 , 張育郡 , 郭薇雯 , 廖柏翔 , 黃志揚 Yi-Sheng Liu, Yu-Chun, Chang, Wei- Wen Kuo, Po-Hsiang Liao, Chih-Yang Huang
BC172	Metabolic Reprogramming of Human Mitochondrial NAD(P)+-Dependent-Malic Enzyme 2 in leukemia 蕭依信 [1], 黃宇男 [1], 巫康熙 [2], 劉光耀 [3], 彭慶添 [2], 洪慧芝 [1,*] I-Hsin Hsiao[1], Yu-Nan Huang[1], Kang-Hsi Wu[2], Guang-Yaw Liu[3] Ching-Tien Peng[2], Hui-Chih Hung[1*]
BC173	Using single-cell RNA sequencing to identify the differential activation subtypes of immune cells in the hepatocellular carcinoma of hepatitis B virus transgenic mice 李其桓 , 邱昱維 , 黃彥華 , 吳肇卿 Chi-Huan Li, Yu-Wei Chiou, Yen-Hua Huang, Jaw-Ching Wu

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海報編號	論文題目
MI022	Investigation of Photoacoustic Imaging-guided Photothermal Therapy using PEGylated Gold Nanostars 劉穎芯、陳昭政、張鐙元、詹惠雯、王信二、林亮廷 Wing Sum Lau[1], Chao-Cheng Chen[2], Deng-Yuan Chang[2], Hui-Wen Chan[2], Hsin-Ell Wang[2], Liang-Ting Lin[1]
MI023	NAP peptide as potential therapeutics for reduction of aluminum ion neurotoxicity 陳孟妤 李翊嘉 楊明慧 陳宜民 田育彰 Meng-Yu Chen, Yi-Chia Lee, Ming-Hui Yang, Yi-Ming Arthur Chen, Yu-Chang Tyan
MI024	Combined tumor targeting nanoparticles with 18F-FDG induced Cerenkov radiation for tumor diagnosis and therapy 楊紫怡 , 林學良 , 柯建志 , 張正 , 劉仁賢 Zi-Yi Yang, Syue-Liang Lin, Chien-Chih Ke, C. Allen Chang, Ren-Shyan Liu
MI025	Nd3+ sensitized core-shell-shell nanocomposites coated with TiO2 for photodynamic therapy and luminescence imaging by a single wavelength NIR light irradiation 林學良 [1], 陳瀚竣 [2], 張正 [1,2,3]* Syue-Liang Lin[1], Han-Jyun Chen 1, C. Allen Chang[1,2,3]*
MI026	Mesenchymal Stem Cell Derived Exosome Ameliorates Cognitive Decline in Alzheimer's Disease 陳怡安 [1], 呂承烋 [2], 柯建志 [2,3], 劉仁賢 [2,3] Yi-An Chen[1], Cheng-Hsiu Lu[2], Chien-Chih Ke[2,3], and Ren-Shyan Liu[2,3]
MI027	EVALUATION OF BIOLOGICAL CHARACTERIZATIONS OF GOLD NANOSTAR-MEDIATED PHOTOTHERMAL THERAPY IN COMBINATION WITH CHEMOTHERAPY IN OVARIAN CANCER TREATMENT 詹惠雯、陳昭政、張鐙元、季匡華、劉仁賢、陳傳霖、王信二 Hui-Wen Chan[1], Chao-Cheng Chen[1], Deng-Yuan Chang[1], Kwan-Hwa Chi[2], Ren-Shyan Liu[1], Chuan-Lin Chen[1] and Hsin-Ell Wang[1]

國防醫學院
國防醫學院研究發展室

2019

國防醫學院生技醫療技術【招商說明會】

03/23

台北市內湖區民權東路六段161號
國防醫學院一樓(六)教室

[活動詳細資訊]

活動日期：2019.03.23 (六) 14:15-16:30

其他資訊：國防醫學院/三軍總醫院

國防醫學院首頁
https://ndmc.ndmctsgh.edu.tw/nss/p/index

國防醫學院研究發展室首頁
https://www.ndmctsgh.edu.tw/web/ResearchAndDevelopment/

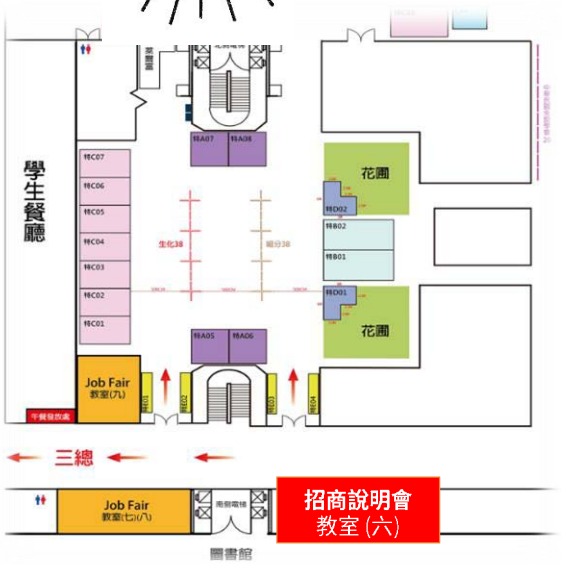
時間	場次	主講人	技術名稱
14:15 – 14:30	1	蔣尚霖 助理教授 (三總復健醫學部)	床上活動力偵測與分析裝置與方法
14:30 – 14:45	2	潘玉玲 督導長 (三總護理部)	翻身起身輔助墊
14:45 – 15:00	3	温家政 醫師 (三總大腸直腸外科)	具非數字式量測的內視鏡器械
中場休息 (茶敘)			
15:15 – 16:00	4	朱基銘 教授 (國防醫學院公衛系)	(1)預測乳癌復發之基因標記及方法 (2)大腸直腸癌之基因標記、使用其檢測大腸直腸癌之方法及含其之套組 (3)用於檢測大腸直腸癌之基因標記與檢測方法
16:00 – 16:15	5	郭賜成 博士 (國防醫學院預醫所)	蘇拉明於治療曲弓熱病毒感染之用途
16:15 – 16:30	6	許蕙玲 助理教授 (國防醫學院預醫所)	致病原之鑑定方法及鑑定套組
賦歸			

2019 國防醫學院生技醫療技術【招商說明會】

由國防醫學院研發室智權中心舉辦之「國防醫學院生技醫療技術招商說明會」，針對本學院之生醫技術、試劑開發及醫療照護器材等研發成果進行發表，同時介紹這些技術的產業發展潛力。我們期許藉由此次活動，為產業界及學研界人員建立交流與合作的管道，提升研發成果的價值與生命，共同加速台灣生物科技產業的發展。

參展項目

床上活動力偵測與分析裝置與方法/翻身起身輔助墊/具非數字式量測的內視鏡器械/預測乳癌復發之基因標記及方法/大腸直腸癌之基因標記、使用其檢測大腸直腸癌之方法及含其之套組/用於檢測大腸直腸癌之基因標記與檢測方法/蘇拉明於治療曲弓熱病毒感染之用途/致病原之鑑定方法及鑑定套組/影像特徵點自動點選方法和對應系統/黃病毒重組體及其應用/膠台



- 主辦單位：國防醫學院研究發展室
- 展出單位：國防醫學院/預防醫學研究所
  三軍總醫院

此活動全程免費，歡迎各位先進踴躍參加！
-現場備有茶點及紀念小禮品-

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聯絡窗口

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第34屆生物醫學聯合學術年會

2019 The 34th Joint Annual Conference of Biomedical Science

各學會相關資訊

Conference Information

中華民國細胞及分子生物學學會

THE CHINESE SOCIETY OF CELL AND MOLECULAR BIOLOGY

「中華民國細胞及分子生物學學會」於 1989 年，經先進們促成，於行政院國科會生物的支持下籌畫成立，30 年來在細胞及分子生物學領域之研究推動與學術交流上努力耕耘，長期推動生命科學教育，及提升學子對生命科學之認知等基礎紮根工作，成果豐碩。

學會每年固定舉辦之主要活動包括 1.「細胞及分子生物新知研討會」，本研討會舉辦今已有 26 屆歷史，每年會中均邀請細胞及分子生物學相關領域之優秀學者進行專題演講，舉辦碩、博士班學生口頭以及壁報論文競賽，鼓勵研究生發表研究心得，並對優秀論文予獎勵。除可提供研究者學術交流機會，也鼓勵青年學子投入相關領域之研究，落實基礎根；2.「生物醫學聯合學術年會」，學會每年與其它六個基礎醫學相關學會共同合作舉辦以及 3.「海峽兩岸細胞生物學學術研討會」由本學會及中國細胞生物學學會輪流辦理，與者可藉此機會彼此交流與切磋最新的研究成果。4. 籌組學術會議參訪團積極參與國際性細生物學學會(如 American Society for Cell Biology(ASCB), Asia Pacific Organizati for Cell Biology (APOCB),及 International Federation for Cell Biology (IFCB))所辦的會議及相關活動。

為鼓勵年輕優秀之研究人員踴躍參加學術活動，吸收生物科技新知並拓展視野，學會年皆辦理兩次學生、助理及博士後研究員出席國際學術會議補助。

經歷任理事長吳成文院士、沈哲鯤院士、張仲明特聘研究員、吳妍華院士、伍焜玉士、王陸海院士、龔行健院士及現任理事長施修明特聘研究員的努力不懈，加上各屆的理與監事大力護持與指導，本會得以在穩定中成長與茁壯。

今年學會已邁入第 30 年，目前所累積的會員人數共計有 8,588 人，其中普通會員為 2,046 位，學生會員為 6,542 位。展望未來除秉持創會宗旨，亦將力圖與世界的細胞生物學界接軌，更上層樓。

《第十四屆理監事名單》(依姓名筆劃順序)

理事長：施修明

常務理事：施修明、裘正健、龔行健

理事：王憶卿、江安世、吳益群、李芳仁、周玉山、林敬哲、林淑華、施修明、張智芬、陳瑞華、湯銘哲、裘正健、鄭淑珍、劉扶東、賴明德、蔡少正、鄧述諄、鍾邦柱、魏耀揮、簡正鼎、龔行健

常務監事：吳成文

監事：王陸海、吳成文、吳妍華、唐　堂、張文昌

中華民國臨床生化學會

本會以聯絡國內外人士共同促進臨床生化之研究、發展及應用，並加強對國際臨床生化組織之交流，增進國民之健康為宗旨。認同本會宗旨者，誠摯邀請入會共圖發展。

會址：台北市常德街一號　國立臺灣大學醫學院醫學檢驗暨生物技術學系
核准立案：內政部台(71)內社字第 92662 號
統一編號：00966410
電話：02-27049977 轉 563
傳真：02-23711574
信箱：office@cacb.org.tw
網址：http://www.cacb.org.tw/

第十三屆理監事名錄

理事長　　甯孝真
常務理事　方偉宏、謝淑珠
理事　　林淑萍、林佳霓、徐慧貞、陳秋霞、劉俊仁、歐月星、楊雅倩、葉振聲
常務監事　賴明龍
監事　　毛小薇、高照村
秘書長　　郭靜穎
秘書　　鐘明義、李承光

郵局劃撥帳號：
戶名：中華民國臨床生化學會
帳號：05664401
ATM 轉帳：
合作金庫銀行：006
帳號：1346 717 034896
常年會費 NT$800，請記得繳納常年會費，您的奉獻推動了中華民國臨床生化學會會務的發展。

歡迎踴躍入會

社團法人台灣毒物學學會

Toxicology Society of Taiwan

http://www.twtoxicology.org.tw/

本會宗旨: 本會以促進毒物學及相關科學之研究與發展及應用為宗旨。

本會之任務為:

一、促進毒物學之研究與應用。

二、舉辦有關毒物學學術演講及討論會。

三、參加國際有關毒物學各項會議，並經常與國外毒物學會連繫。

四、出版有關毒物學刊物。

五、辦理其他有關毒物學事項。

- **會員大會**

  時間/地點：108 年 3 月 23 日（星期六） 15:30-16:30 /第 29 教室

- **毒物學會特別演講 歡迎踴躍參加**

  時間/地點：108 年 3 月 23 日（星期六） 14:30- 15:30 /第 29 教室

  演講者：余幸司 教授

  主持人：李志恒 理事長

- **Finding a better path to challenges in Toxicology for better Taiwan 研討會 歡迎踴躍參加**

  時間/地點：108 年 3 月 24 日（星期日）14:15- 15:45 /第 29 教室

  演講者：江秀梅 教授、陳珮珊 副教授、陳容甄 助理教授

  主持人：王應然 理事

- **研究生口頭論文競賽 歡迎踴躍參加**

  時間/地點：108 年 3 月 23 日（星期六）09:50- 11:00 /第 29 教室

  108 年 3 月 24 日（星期日）09:30- 10:30 /第 29 教室

  主持人：姜至剛 秘書長

  頒獎時間/地點：108 年 3 月 24 日（星期日）15:45- 16:15 /第 29 教室

- **歡迎申請入會**

  請於毒物學學會網頁(http://www.twtoxicology.org.tw/)註冊登錄個人資料，並至郵局劃撥繳交會費，學會收到個人資料暨匯款後，會寄發入會通知書，如有任何疑問，請洽學會幹事陳元孝先生(聯絡電話：02-23123456 轉 88347、電子郵件：tsta.taiwan@gmail.com)

郵政劃撥帳戶

戶名：社團法人台灣毒物學學會

帳號：50319182

會費：

一般會員：入會費 200 元，年費 400 元；

永久會員：入會費 200 元，會費 4000 元。

學生會員：免入會費，年費 200 元。

理 事 長 李志恒

中國生理學會
The Chinese Physiological Society

一、 第 25 屆第 2 次會員大會：

日期：2019 年 3 月 23 日（星期六）14:30 - 15:10
地點：國防醫學院 第二教室

二、 34 屆生物醫學聯合年會-中國生理學會講座：

1. **Keynote Speech**
   時間／地點：3 月 23 日 10:30 - 11:20／第二教室
   主講者：Prof. Denis Noble

2. **Symposium(一)：Endocrinology**
   時間／地點：3 月 23 日 15:40 - 17:30／第二教室
   主講者：Prof. Ken-ichirou Morohashi (諸橋 憲一郎)、何美泠、李文森、蕭培文

3. **Symposium(二)：Physiological Seminar**
   時間／地點：3 月 24 日 13:45 - 15:45／第二教室
   主講者：Prof. 張哲逢、吳偉立、劉懿璇、林世杰

4. **論文競賽**
   看板論文競賽：3 月 23 日 13:00 - 14:30／1F 第二教室前海報區
   口頭論文競賽：3 月 24 日 09:00 - 10:30／第二教室

三、 歡迎申請入會

請至生理學會網頁(http://www.cps.org.tw)下載入會申請表，填妥後 email 至學會秘書處(jmliao@csmu.edu.tw; 24cpsjmliao@gmail.com)。

會費：
永久會員：10000 元
一般會員：入會費 400 元；常年會費：600 元
學生會員：入會費 100 元；常年會費：100 元

四、 第 25 屆理監事名錄

理事長：蔡少正
常務理事：謝博軒、華瑜
理事：李怡萱、林赫、余佳慧、張雅雯、陳景宗、阮琪昌、李昆澤、郭昶志、包大贏、楊尚訓、黃志揚、洪麗滿
常務監事：許勤
監事：童吉士、黃娟娟、顏茂雄、林天南

台灣藥理學會

The Pharmacological Society in Taiwan

❖第十屆理監事名單

理	事 長	簡伯武
常 務 監	事	顏茂雄
監	事	張文昌、符文美、鄧哲明、陶寶綠
常 務 理	事	林琬琬、曾清俊、華 瑜、黃德富
理	事	吳炳男、吳錦楨、林建煌、林滿玉、許桂森、許準榕、陳文彬、陳青周、楊春茂、蕭哲志
秘	書 長	張雅雯

特別演講- 邱麗珠 教授(台灣大學藥理所)

2019 年 03 月 23 日(六)下午 2:30 第一教室

專題演講- Redox Signalings and Inflammation：From Bench to Practices

主持人：楊春茂教授(長庚)、吳錦楨教授(國防)

講員：李新城教授(陽明)、鄭美玲教授(長庚)、林錦生副教授(三總)、施志勤副教授(國防)、鄭琬蒨助理教授(三總)

2019 年 03 月 24 日(日)下午 2:00 第一教室

❖本年度舉辦之**“台灣藥理學會之夜”**，歡迎會員踴躍參加!
時間：2019 年 03 月 23 日(六)晚上六時
地點：台北市中正區仁愛路一段 17 號 5 樓（上海鄉村餐廳-青少年育樂中心）

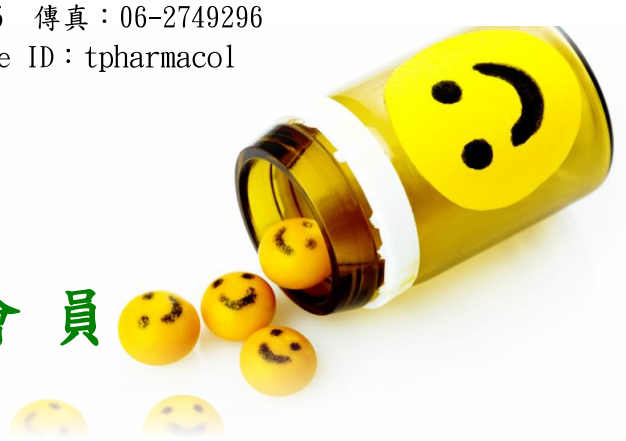
❖本學會將主辦 2020 亞太藥理學會議(Asia Pacific Federation of Pharmacologist)。

❖台灣藥理學會網站：http://www.pharmacology.org.tw/
❖藥理簡訊下載網址：http://www.pharmacology.org.tw/periodical.php
❖入會辦法：請至本會下載入會申請書，填妥後以郵寄或 Email 方式回傳本會。

❖台灣藥理學會：
會址：10051 台北市仁愛路一段 1 號 11 樓
聯絡地址：70101 台南市東區大學路 1 號 國立成功大學藥理所
聯絡電話：0966-528529; 06-2353535 轉 5445 傳真：06-2749296
學會信箱：tpharmacol@gmail.com；學會 Line ID：tpharmacol

加入 Line

入會申請



歡 迎 踴 躍 加 入 會 員

中華民國解剖學學會

The Association of Anatomists of the Republic of China

特別演講

時間：2019 年 3 月 23 日(星期六) 09:50-11:00
地點：國防醫學院 32 教室
講者：國防醫學院研發室主任 馬國興教授

大會開幕式

3 月 23 日(星期六) 09:00 於致德堂舉辦，歡迎參加!

會員大會

3 月 23 日(星期六) 12:00-12:30 於 32 教室舉辦

研討會

I ：老化與退化
3 月 23 日(星期六) 14:30-16:30 32 教室
II：解剖教學分享
3 月 24 日(星期日) 14:15-15:30 32 教室

口頭論文得獎者報告

3 月 24 日(星期日) 09:00-10:3 0 32 教室

第十五屆理監事名錄

理 事 長 陳天華(陽明大學解剖學及細胞生物學研究所教授)
(臺北榮總外創傷中心主任)

常務理事 郭余民 謝松蒼 陳玉怜 徐佳福
理 事 馮琮涵 李立仁 龔秀妮 傅毓秀 王淑慧 陳瀅
林谷峻 黃雍協 蔡佩君 王嘉銓

常務監事 曾國藩
監 事 錢宗良 周逸鵬 馬國興 王順德
秘 書 長 蕭鎮源
總 幹 事 朱慈暉

歡迎申請入會

個人會員-入會費 500 元，常年會費 500 元。
學生會員-入會費 100 元，常年會費 100 元。

學會帳號

戶名：中華民國解剖學學會
金融機構：合作金庫銀行
帳號：1427765493819

台灣生物化學及分子生物學學會

THE TAIWAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY

地點：國防醫學院 第 33 教室

生化學會特別演講：

日期：108 年 3 月 23 日 09:50～11:00

講員：陳瑞華（中央研究院生物化學研究所 特聘研究員）

講題：BIK ubiquitination controls life-death fate of cellular stress responses and anti-tumor activity

生化學會會員大會 日期：108 年 3 月 23 日 11:00～11:20

生化學會研討會

Symposium I: RNA Biology 日期：108 年 3 月 23 日 13:30～15:30

Symposium II: Structure Biology /Cryo-EM 日期：108 年 3 月 24 日 14:30～16:30

職涯分享: Doing Good Science in Good Taste: an Often A.I.
日期：108 年 3 月 23 日 15:45～16:45

生化學會優秀口頭論文報告 日期：108 年 3 月 24 日 8:30～10:30

生化學會優秀口頭論文&壁報論文頒獎 日期：108 年 3 月 24 日 16:30～16:45

入會資格與方式：舉凡生化、分生及其他生命科學相關研究領域之學者及學生均歡迎入會。
劃撥帳戶：00170375 戶名：台灣生物化學及分子生物學學會。

會費：10 年會員： 入會費 500 元，10 年會費 4000 元
普通會員 ： 入會費 500 元，常年會費 500 元
學生會員 ： 入會費 100 元，常年會費 100 元

第 26 屆理監事名錄：

理 事 長：李芳仁

常務理事：吳漢忠、張智芬、陳瑞華、楊長賢

理 事：王正康、王育民、王惠民、呂佩融、李惠珍、阮雪芬、周成功、孟子青、洪慧芝、張雋曦、梁博煌、陳韻如、黃世明、詹迺立、鄭淑珍、鍾邦柱

常務監事：林敬哲

監 事：王惠鈞、王憶卿、吳華林、莊偉哲、蔡明道、魏耀揮

秘 書 長：冀宏源

台灣生物化學及分子生物學學會
地址：10617 台北市大安區羅斯福路四段 1 號 (國立台灣大學生化科學研究所 2 樓 N203 室)
電話：(02) 2366-5574 , (02) 2312-3456 # 65701
網址：http://www.tsbmb.org.tw/
電子郵件：tsbmb.tw26@gmail.com

歡迎踴躍入會

中華民國免疫學會
Chinese Society of Immunology (CSI-Taiwan)
(www.immunology.org.tw)

成立背景

中華民國免疫學會於民國六十七年，由楊照雄教授及韓韶華教授等發起成立，英文名稱為 The Chinese Society of Immunology(CSI)。本會成立後經本會之前輩教授多年努力，終於在民國七十三年九月經國際免疫學會聯盟 (IUIS) 投票通過，成為該聯盟第三十三個正式會員國，每年得以參加 IUIS 世界活動及參與其事務並取得最新之免疫學資訊。本會目前有會員 700 多人，學術及服務活動甚為踴躍，每年有盛大之年會及學術討論會，並邀請世界著名學者蒞臨演講，每月有地區性學術討論會及出版本會雜誌。

成立宗旨

本會以聯繫國內外人士交換心得，提高免疫學水準及促進學術研究與發展為宗旨，致力於免疫學研究與應用之發展與推廣。本會每年街舉辦國際會議或國際演講及教育講座等，並與海外相關團體機構互相交流聯繫。

組織架構

本會置理事十五人、監事五人，由會員選舉之，分別成立理事會、監事會。

現任理監事

理事長: 劉扶東
秘書長: 李建國
常務理事: 徐世達、郭敏玲、陳得源、謝世良
理事: 司徒惠康、李文益、洪志興、徐再靜、陳一銘、陳怡行、陳相成、
楊曜旭、賴振宏、顏正賢
常務監事: 余光輝
監事: 王志堯、黃春明、楊崑德、魏正宗

申請資格

一. 普通會員：贊同本會宗旨，年滿二十歲，具有下列二款之一資格者。
   1. 凡在國內外大專以上學校畢業，從事免疫學相關工作或曾發表有關免疫學之論文，經普通會員二人之介紹，並經理事會通過者。
   2. 凡在學術機關從事免疫學工作五年以上，由理事二人之介紹，並經理事會通過者。(入會費 1000 元，常年會費 1200 元)
二. 學生會員：凡在國內外大專以上學校肄業，且對免疫學有興趣，經普通會員二人之介紹，並經理事會通過者。(入會費 100 元，常年會費 300 元)
三. 贊助會員：凡認同本學會宗旨之團體或個人，並贊助本學會工作之團體或個人，經普通會員二人之介紹，並經理事會通過者。(入會費 5000 元，常年會費 5000 元)

申請辦法

一. 請至免疫學會網站下載申請表，填寫入會申請表，以郵寄、傳真或 E-mail 至學會。
二. 至郵局劃撥入會費及年費，收款人帳號為 05106628，戶名為”中華民國免疫學會”。

臺灣分子生物影像學會
Taiwanese Society for Molecular Imaging

成立背景

民國 95 年，為擴大促進台灣分子生物學界專家、學生及分子影像相關領域人士的交流及國際合作，劉仁賢名譽理事長帶領榮總–陽明核醫及醫學放射專業團隊創立本學會，並積極與國外接軌，不但與日、韓兩國分子影像學會（JSMI，KSMI）共同創立亞洲分子影像聯盟（FASMI），並以 FASMI 之名義與美國 The Society for Molecular Imaging 及 The Academy of Molecular Imaging 及歐洲分子影像學會（ESMI），共同組織世界分子影像大會（WMIC），成為創會會員國之一。

成立宗旨

本會結合我國分子生物影像科技人員，致力於分子生物影像之研究與應用之發展與推廣，希冀經由教育及研究水準之提升，以及國際合作與學術交流之增進，達成造福國人，貢獻人類福祉之目的。本會每年皆舉辦國際會議或國際演講、教育講習等，並與海外相關團體機構互相交流聯繫。

組織架構

本會置理事十五人、監事三人，由會員選舉之，分別成立理事會、監事會，理事會置常務理事五人，理事長一人，秘書長一人及名譽理事長一人，截至民國 107 年止已有會員 280 人。

現任理監事

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秘書長：楊邦宏
理事：王信二、李百祺、李易展、吳東信、吳育德、林康平、馬國興、孫啟光、
陳志成、陳志宏、黃文盛、黃正仲、張 正、鄧文炳
常務理事：林康平、黃文盛、張 正、鄧文炳、劉仁賢
監事：王先知、高潘福、陳富都
常務監事： 陳富都

申請資格

本會會員申請資格如左：
一、個人會員：凡贊同本會宗旨、年滿二十歲、具有從事分子生物影像相關工作之資格者。
二、團體會員：凡贊同本會宗旨之公私機構或團體。
三、贊助會員：贊助本會工作之團體或個人。
四、學生會員：凡贊同本會宗旨之公私立大專院校分子生物影像相關科系之在學學生。

申請辦法

一、填寫入會申請表，以郵寄、傳真或 E-mail 至學會(taiwansmi@gmail.com)。 下載申請表
二、至郵局劃撥入會費及年費。收款人帳號為 50025466，戶名為「台灣分子生物影像學會」。
●普通會員：入會費 600 元+常年會費 500 元 ＝1100 元
●學生會員：入會費 300 元+常年會費 100 元 ＝400 元
●團體會員：入會費 10000 元+常年會費 6000 元 ＝16000 元

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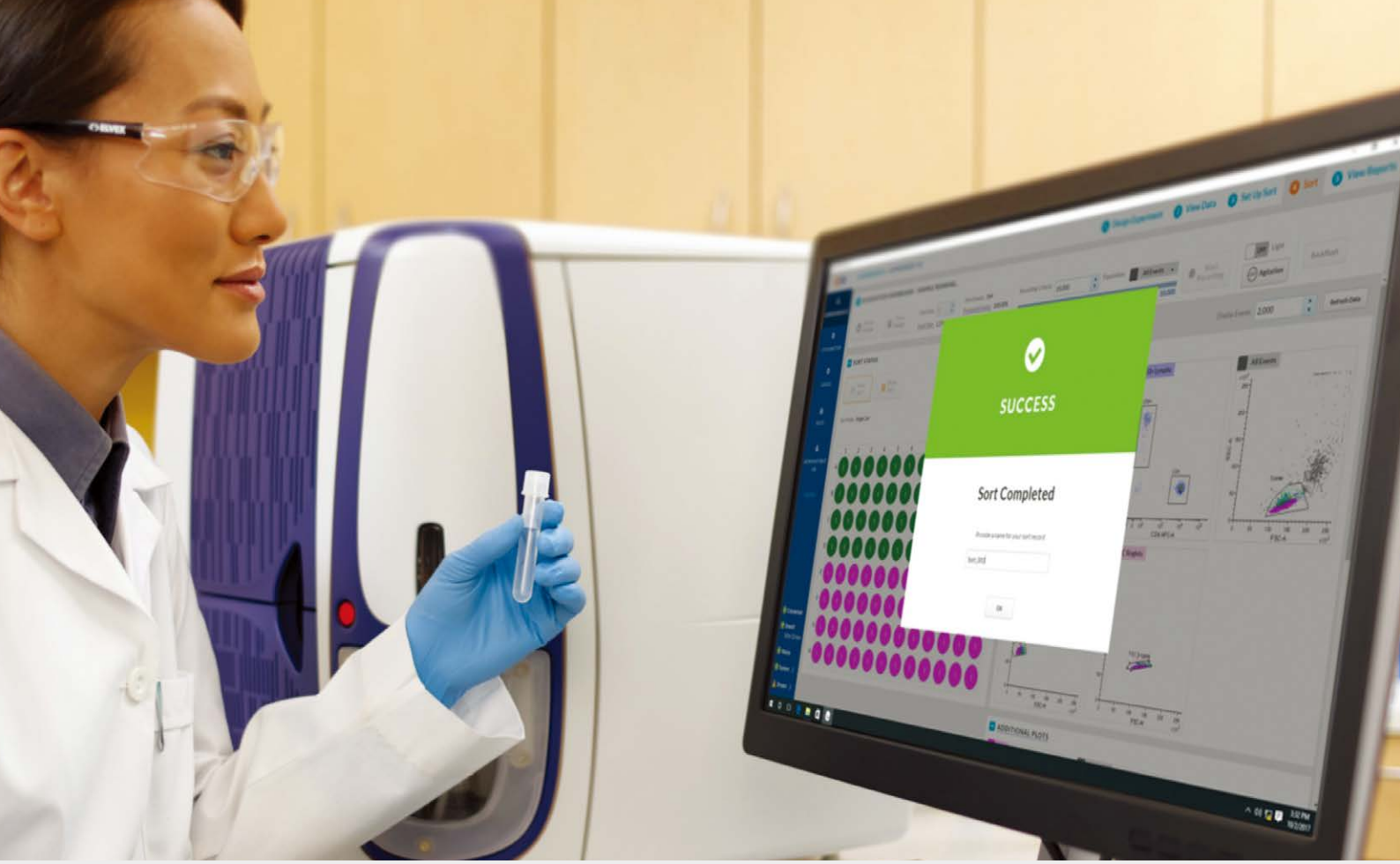

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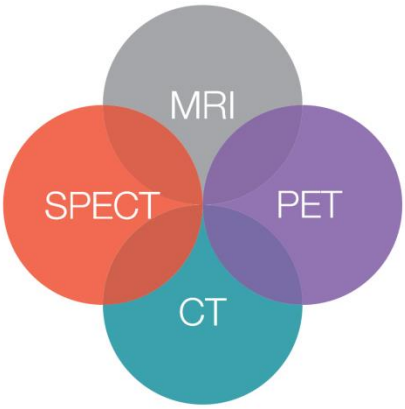

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Maximizing value!!!

宗旨

國衛院生技與藥物研究所歷年來在小分子新藥研發領域積極的建構我國新藥研發能力，從新藥探索研究銜接到新藥臨床前/臨床試驗發展，已發展成為國內重要的創新藥物研發團隊，是國內唯一涵蓋上游至中游新藥研發的政府法人機構。為發揮既有之技術能量與經驗，並配合政府推動「亞太生技醫藥研發產業中心」的政策，生技與藥物研究所積極參與由中研院推動之「生技醫學轉譯創新發展計畫-技術支援平台主軸」，於2017年以整合支援模式設立「藥物化學加值創新研發中心」，提供國家生技研究園區、國內生技廠商及學研界等進行小分子新藥研發所需的藥物化學研究技術平台服務，從**「活性化合物至先導化合物最適化」**及**「先導化合物至候選發展藥物最適化」**等之研發工作，透過以客戶需求為導向之藥物化學加值工作，提高候選發展藥物產出之效率與品質，促進廠商轉型投入高附加價值的新穎藥物研發領域，帶動整體生技製藥產業升級。

服務內容

- 活性化合物最佳化 (Hit-to-lead optimization)
- 先導藥物最適化 (Lead-to-candidate optimization)
- 分子庫合成 (Library synthesis)
- 製程開發與放大 (Process development and scale-up)
- 客製化合成 (Custom synthesis service)
- 分析方法開發 (Analytical method development)

服務方式

FTE Program (chemistry only)

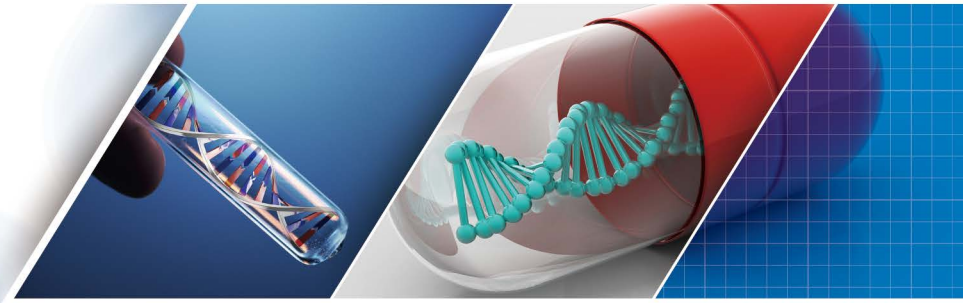
- Compound synthesis and synthetic methodology development
- No biological data sharing
- No compound design involved

FTE Program (medicinal chemistry included)

- Biological data sharing
- Compound design involved
- Computer aided drug design
- Compound synthesis and synthetic methodology development

FFS Program

- Library synthesis
- Process development and scale-up
- Custom synthesis (gram scale compounds, competitive compounds, RS)
- Analytical method development

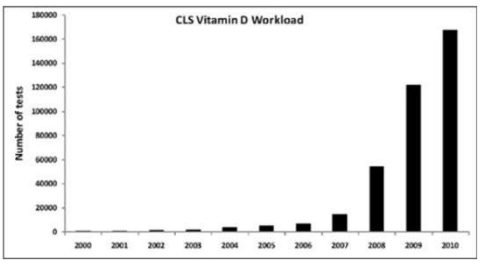


聯繫資訊

- 陳韋涵 小姐
- Tel: (037)246166 ext. 35742/35744
- Mail: VMIC@nhri.org.tw

Vitamin D
檢測新發展

近年國外熱門研究項目之一：Vitamin D 檢測



Vitamin D 缺乏已知與多種疾病有關：

- 老年性骨質疏鬆
- 軟骨病
- 佝僂病
- 癌症

透過Vitamin D檢測，提早做出缺乏的對策。

25 OH VITAMIN D TOTAL, ELISA ASSAY

衛部醫器輸字第030061號

- ✓ 實驗時間2hr 45 min
- ✓ 不須前處理
- ✓ All-in-one,無需額外耗材
- ✓ 取得美國FDA認證

25 OH VITAMIN D TOTAL, RIA ASSAY

衛部醫器輸字第028951號

- ✓ 可用於自動化機器
- ✓ 檢體體積只需25ul
- ✓ All-in-one,無需額外耗材

1,25 $(OH)_2$ VITAMIN D, RIA ASSAY

衛部醫器輸字第030511號

- ✓ All-in-one,無需額外耗材
- ✓ 不需其他裝置如: 真空抽氣機/氮氣
- ✓ Detection limit:1.4 pg/ml

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我超快 / 5分鐘做好膠 下～班～啦～

嗨，大家今天過得好嗎？我是小白

錠狀的身體裡

包含高純度的Agarose和耐高溫Safe Dye

把我放入buffer中，加熱後即可做膠

精 準 |
無須秤重，沒有粉塵，高再現性

安 全 |
新設計，耐熱安全染劑，無毒性

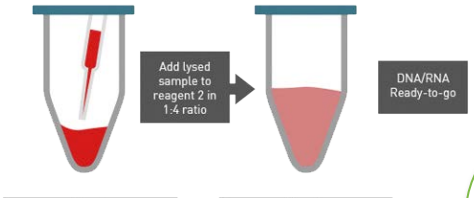
方 便 |
極速溶解，UV藍光均可激發

ARCIS BIOTECHNOLOGY

快速核酸純化

終結抽核酸耗時費工的夢魘

我更快 / 3分鐘可上機 下～班～啦～



樣品 + Reagent 1
等待一分鐘

再加入Reagent 2
完成純化

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- 二個步驟，3分鐘完成
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- 不需加熱或離心
- 試劑室溫保存即可
- 歐洲專利、IVD認證

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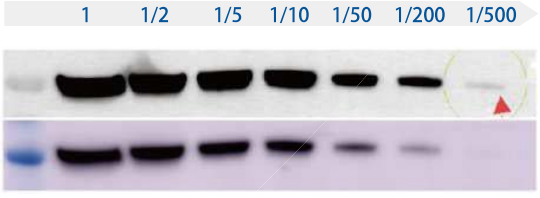
e-BLOT

Western冷光照膠系統

有沒有效，一秒就知道

我最快 / 1秒鐘拍完照 下～班～啦～

α-tubulin稀釋濃度



e-BLOT 曝光 0.1 秒

美國品牌 曝光 60 秒

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高靈敏 | 電子式底片，貼覆式感光，訊號不流失

寬動態 | 超大感光畫素，百萬級電子容量，不易過曝

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Trusted Answers

Agilent 4150 TapeStation System
經濟型自動微電泳儀

Agilent 4150 TapeStation 系統是用於 DNA 和 RNA 樣品品質控管的自動化電泳解決方案。TapeStation 系統是一體化平台，包括用於分析樣品分子大小、濃度和完整性的儀器、數據分析軟體、試劑與 ScreenTape 耗材，提供快速得知結果、低維護成本的分析平台，非常適合於次世代定序 (NGS) 或生物樣品庫工作流程。

- 新型 ScreenTape，分次、免維護、即開即用
- 適用各類 NGS 應用 (cell、FFPE、tissue、cell-free、single-cell)
- 標準化 QC 判定值 (Cell-free DNA%、RIN^e、DIN)

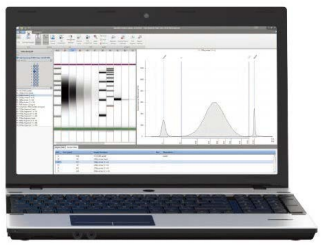
精準醫學
小型、輕鬆、無負擔！

樣品 QC 竟如此簡單！

將處理好的樣品和 ScreenTape 放入 TapeStation 儀器，開始運行，1-2分鐘內即可查看一個樣品的結果。

步驟 1
選定 ScreenTape 類型並製備樣品

步驟 2
將樣品和 ScreenTape 放入 TapeStation 儀器



步驟 3
按下開始，之後在 TapeStation 軟體中查看結果

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MERCK

我想要transfection plasmid DNA、siRNA以及CRISPR/RNP，要買多少種試劑才夠呢？

裁membrane裁的好煩呀～好想要很方便使用的膜！

想到收時間點就頭好痛，今天又要陪著細胞睡不好，好想輕鬆的收集時間點！

蛋白質純化好麻煩啊...管子換來換去的，好想要一管搞定喔！

臨時找不到業務，該怎麼辦啊～

每次做Western blot就要一直走來走去，好想一次解決啊～

RNA轉cDNA，Kit裡頭管子這麼多，配置好複雜呀！

要買新的inhibitor，研究比較各種規格讓我頭好痛！

秤個藥又給我結塊，秤半天才能秤好，誰來幫幫我阿～

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