

國科會生命科學研究推動中心

研討(習)會 結案報告

中文名稱：第 30 屆細胞及分子生物新知研討會暨 30 屆慶祝活動

英文名稱：The 30th Symposium on Recent Advances in Cellular and Molecular Biology and 30th Anniversary Celebration

中文摘要報告：

第 30 屆細胞及分子生物新知研討會暨 30 屆慶祝活動業於 114 年 1 月 9 日至 1 月 11 日假屏東墾丁福華渡假飯店福華廳舉行，本屆研討會現場共約 250 人共襄盛舉。

本屆研討會辦理兩場 Keynote Lecture (特別演講)，分別邀請到美國圖策生技林清詠執行長及成功大學沈孟儒校長擔任講者，講題分別為：「A.I.: Is biomedicine's Newtonian moment finally here?」及「Bridge Precision Medicine and Personal Healthcare by Digital Innovation」。

Invited Lecture (專題演講)則邀請國內具傑出研究成果之優秀學者，分為兩大主題演講：

Session I：AI in Life Science 由中央研究院生物醫學科學研究所施修明研究員兼智慧醫學專題中心執行長主持，講員包含：成功大學分子醫學研究所孫孝芳教授、國衛院生技與藥物研究所童俊維研究員、國防醫學院醫學系林嶽副教授。

Session II：生物晶片之開發與應用 由國衛院癌症研究所洪文俊特聘研究員兼主秘主持，講員包含：清華大學動力機械工程學系劉承賢教授、陽明交通大學生醫所/電機系陳冠宇教授兼副系主任、工業技術研究院莊曜宇副總暨生醫所所長。

此外，本屆研討會還舉辦了一場由陳瑞華特聘研究員及陳儀莊特聘研究員兼所長共同主持的新秀學者演講，邀請了七位優秀的新進學者分享其研究成果。

除上述學術演講外，本屆研討會亦舉辦各項論文競賽。鼓勵學者、學生、國內博士後研究員及研究助理共同參與交流與分享研究成果。本屆研討會共計 94 篇壁報論文摘要之投稿，其中 69 篇參加角逐「優秀壁報論文競賽」，經由初審與複審評選出 15 名投稿者頒贈獎項。

本屆研討會亦舉辦歷史悠久之「徐千田優秀論文競賽」，此乃徐明達博士所襄助辦理之獎項，為生物醫學領域具高額獎學金之口頭論文競賽獎，參加資格限定為在學中之博士班研究生或畢業一年內之博士。本屆共有 8 位符合資格者投稿，並進行現場口頭報告競賽，分別獲得特優、頭獎、優等、佳作獎項，此競賽提供即將成為博士者或新科博士研究發表與交流之平台，在過去該獎項所鼓勵過的得獎者，現在皆在相關領域有不錯的發展潛力。

而為了使學術資源較少的臺灣南部大學的學生有機會參加，學會每年辦理的新知研討會場地多位於墾丁及台灣南部地區，故亦稱墾丁冬令營或新知冬令營，三十年以來新知研討會為學會年度學術盛會，同時亦是生科界最重要的學術活動之一。新知研討會的內容包含學術演講以及口頭或壁報論文競賽，宗旨為期勉勵更多學生與學者投入細胞及分子生物學領域研究，進而提昇國內生物醫學與生物科技之發展。本屆藉由主題的交流，促進與會學員對於人工智慧在生命科學領域應用之世界趨勢，以及生物晶片開發與應用之臨床經驗結合有更深切的瞭解，進而導引出更深入之研討與探究。

30 週年慶祝活動盛況

- 邀請歷屆理事長與到場：為了彰顯本次30週年慶典的重要性，特別邀請到了前理事長有創會理事長吳成文院士、張仲明副總召、施修明研究員、陳瑞華特聘研究員返回參加這次盛

會。資深前輩們的出席不僅代表了學會的傳承與連續性，也為整個活動增添了莊重與歷史感。

- 30感恩有您頒獎典禮：晚宴的高潮之一是對吳成文院士及徐明達教授的特別致敬。大會準備了新知研討會從無到有令人感動的影片，回顧每位會員以及吳院士這30年來對學會的付出，從初期的學術指導到後期的支持，都留下了他深刻的足跡。吳院士在發表感言時回顧了這30年來的點滴，特別提到學會如何從草創初期成長為今日具有影響力的學術團體之一。同樣受到表彰的還有徐明達教授，由於徐教授不克前來，由張仲明副總召代表受獎。大會感謝徐教授多年來在人才培育方面持續不斷的襄助「徐千田優秀論文獎」，鼓勵學子繼續在生科界能有更進一步的發展。
- 活動溫馨展望未來：研討會現場設有即拍即印活動，增添30屆慶祝活動熱鬧氣氛，留下一個具有里程碑的紀念。同時於大會晚宴舉辦現場小額禮卷抽獎活動，帶動晚宴氣氛至最高點。這次30週年慶祝活動不僅是對過去的紀念，也是對未來的展望。通過特別邀請歷屆理事長、頒發「30感恩有您」獎項給吳成文院士和徐明達教授、舉辦慶祝活動和創新的抽獎環節，讓學會資深、中生代、年輕學子期聚一堂，整個晚宴洋溢著溫馨、感恩與展望的氛圍，為學會下一個30年奠定了美好的開端。

英文摘要報告：

The 30th Symposium on Recent Advances in Cellular and Molecular Biology and 30th Anniversary Celebration was held in Kenting Howard Beach Resort Kenting (Pingtung County) from January 9th to 11th, 2025. There were 250 participants in total. Two keynote speakers were invited. One was Dr. Ching-Yung Lin, CEO of Graphen Drugomics, Inc. The title of his lecture was "A.I.: Is biomedicine's Newtonian moment finally here?". Another was Dr. Meng-Ru Shen, President of National Cheng Kung University. The title of his lecture was "Bridge Precision Medicine and Personal Healthcare by Digital Innovation".

In addition, there were two sessions, including AI in Life Science and Development and Application of Biochips. We invited local speakers to give remarkable lectures introducing their recent research findings.

Session I: AI in Life Science. The Chairperson was Dr. Hsiu-Ming Shih, Research Fellow and CEO, Institute of Biomedical Sciences & Biomedical Translation Research Center, Academia Sinica. The invited speakers were Dr. H. Sunny Sun, Professor, Institute of Molecular Medicine, National Cheng Kung University; Dr. Chun-Wei Tung, Investigator, Institute of Biotechnology and Pharmaceutical Research, National Health Research Institutes; Dr. Chin Lin, Associate Professor, School of Medicine, National Defense Medical Center.

Session II: Development and Application of Biochips. The Chairperson was Dr. Wen-Chun Hung, Distinguished Investigator, National Institute of Cancer Research, National Health Research Institutes. The invited speakers were Dr. Cheng-Hsien Liu, Professor, Department of Power Mechanical Engineering, National Tsing Hua University; Dr. Guan-Yu Chen, Associate Chairperson, Department of Electronics and Electrical Engineering and Professor, Institute of Biomedical Engineering, National Yang Ming Chiao Tung University; Dr. Eric Y Chuang, General Director, Biomedical Technology and Device Research Laboratories, Industrial Technology Research Institute.

In addition, there was a New Blood Speech session co-chaired by Dr. Ruey-Hwa Chen and Dr. Yijuang Chern, featuring seven outstanding young scholars who shared their research achievements.

In addition to the lectures, in order to encourage scholars, students, postdoctoral fellows, and research assistants to participate in this symposium and to share their research results, we also organized various competitions of posters. Totally, there were 150 posters presented this year.

"Chien-Tien Hsu's Award", sponsored by Dr. Ming-Ta Hsu, one of the highly scholarship oral essay awards for the biomedical society. The eligibility of that was limited to Ph.D. students and young scientists obtained their Ph.D. degree within one year. Eight presenters participated in on-site oral presentations to compete for the best awards.

The purpose of this contest is to build up a platform to communicate and share the findings and results among researchers in Taiwan. With this activity, we wish not only encourage more young students to devote more to cell and molecular biology researches but to promote the biological technology development in Taiwan eventually.

30th Anniversary Celebration

Invitation and Attendance of Past Presidents

To highlight the significance of this 30th anniversary celebration, several former presidents were specially invited to attend this grand event, including the founding president, Academician Cheng-Wen Wu, Vice Chairman Zhang Zhong-Ming, Research Fellow Xiu-Ming Shi, and Distinguished Research Fellow Rui-Hua Chen. The presence of these senior predecessors not only represented the continuity and heritage of the society but also added solemnity and historical significance to the entire event.

The "30 Years of Gratitude" Award Ceremony

One of the highlights of the banquet was the special tribute to Academician Cheng-Wen Wu and Professor Ming-Da Xu. The organization prepared a touching video showing the development of the symposium from nothing to something, reviewing the contributions of every member and Academician Wu over these 30 years. From the early academic guidance to later support, his profound influence was evident. When Academician Wu delivered his speech, he reflected on the details of these 30 years, particularly mentioning how the society has grown from its initial establishment to become one of the influential academic groups today. Professor Ming-Da Xu was also honored, though due to his absence, Vice Chairman Zhang Zhong-Ming accepted the award on his behalf. The organization expressed gratitude to Professor Xu for his continuous assistance with the "Qian-Tian Xu Outstanding Paper Award," which encourages students to further develop in the field of life sciences.

Warm Activities Looking Forward to the Future

The symposium featured an instant photo printing activity that added to the festive atmosphere of the 30th celebration, leaving a milestone memento. Meanwhile, a small gift certificate lucky draw was held at the banquet, bringing the atmosphere to its peak. This 30th anniversary celebration was not only a commemoration of the past but also a vision for the future. Through specially inviting former presidents, presenting the "30 Years of Gratitude" awards to Academician Cheng-Wen Wu and Professor Ming-Da Xu, and organizing celebratory activities and innovative lucky draws, senior members, the middle generation, and young students gathered together. The entire banquet was filled with warmth, gratitude, and anticipation, laying a beautiful foundation for the society's next 30 years.

講員：

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國內	研究員	童俊維
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國內	教授	劉承賢
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討(習)會目的、預期效益:

每年新知研討會為細胞學及分子生物學領域中最具傳統歷史之墾丁冬令營，藉由歷屆學者與研究人員持續投入與傳承，本研討會方能於該學術領域交流中扮演重要的角色。

每屆會議皆規劃安排國內外優秀學者，分別就其研究專門領域進行專題演講，分享最新的研究成果，透過各方豐富且多元的討論，以提供學者完整之學術交流平台。

除安排專題演講外，研討會期間亦舉辦「徐千田優秀論文獎口頭論文競賽」及「優秀壁報論文競賽」，多由生物醫學相關領域之國內外學界菁英及研究所、大專院校學生前來參賽，藉此鼓勵青年學子投入相關領域研究，從落實基礎紮根著手，強化我國生物科技之研究能力。

每年寒假舉辦之「細胞及分子生物新知研討會」，無論在會議議程、講演內容與學術活動等方面，均經過周詳且嚴謹之安排與籌劃，邀請之講員在各研究領域中皆為表現傑出卓越之人選，務使每一位與會者皆能在從容而愉悅的氛圍中，獲取寶貴的科學新知及研究經驗，得以享受這場美好的知識饗宴。透過每年的與會盛況，更可顯見各界對於本研討會之重視及肯定，並熱切期盼下年度的再次相會。

參加對象:

生物醫學相關領域之國內、外學術界學者、人員及研究所、大專院校學生

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	<p>GENOME SCIENCES, NATIONAL YANG MING CHIAO TUNG UNIVERSITY PHD 09/2009–07/2015 NEURODEVELOPMENT MARINE BIOLOGICAL LABORATORY, MA, USA TRAINEE 06/2014-07/201 EMBRYOLOGY</p>	<p>Assistant Professor, Department of Neuroscience, University of Virginia School of Medicine, VA, USA 01/2018–01/2021 Research Associate, Department of Neuroscience, Center for Brain Immunology and Glia (BIG), University of Virginia School of Medicine, VA, USA 12/2015–12/2017 Postdoctoral Research Fellow, Department of Pediatrics, Emory University School of Medicine, GA, USA 08/2015–11/2015 Postdoctoral Research Fellow, Brain Research Center, National Yang-Ming University, Taipei, Taiwan</p>	
麥德倫	<p>National Taiwan Normal University Ph.D. 2016 Biological Physics National Taiwan Normal University B.S. 2012 Physics</p>	<p>Assistant Professor, Department of Life Science, National Taiwan University, 2022/02-present Postdoctoral Fellow, Genomics Research Center, Academia Sinica, 2016/09-2021/12</p>	<p>Assistant Professor Department of Life Science National Taiwan University</p>
莊曜宇	<ul style="list-style-type: none"> • 國立臺灣大學管理學院商學碩士 (EMBA) • 美國哈佛大學癌症生物學博士 • 美國伊利諾理工學院生物技術碩士 • 東海大學生物學學士 	<ul style="list-style-type: none"> • 工研院副總 (2024.06–迄今) • 工研院生醫與醫材研究所所長 (2023.04–迄今) • 國立臺灣大學醫療器材研發中心副主任 (2015–迄今) • 國立臺灣大學生物技術研究中心研究員 (2011–迄今) • 國立臺灣大學腫瘤醫學研究所教授 (2011–迄今) • 國立臺灣大學基因體與系統生物學學位學程教授 (2010–迄今) • 國立臺灣大學電機工程學系暨研究所教授 (2008–迄今) • 國立臺灣大學流行病學與預防醫學研究所教授 (2008–迄今) • 國立臺灣大學生命科學系教授 (2008–迄今) • 國立臺灣大學生醫電子與資訊學研究所教授 (2008–迄今) • 國立臺灣大學基因體暨精準醫學研究中心生物統計暨生物資訊核心實驗室主持人 (2005–迄今) • 工研院生醫與醫材研究所資深特聘研究 (202 	<p>工業技術研究院 副總暨生醫與醫材研究所所長</p>

		<p>1-2023) • 中國醫藥大學 生物醫學工程碩士學位學程 教授兼醫學工程學院院長 (2 021-2023) • 中國醫藥大 學產學合作處產學長 (2021 -2023) • 工研院生醫與 醫材研究所副所長 (2018-2 021) • 中央研究院基因體中 心合聘研究員 (2016-2021) • 國立臺灣大學生醫電 子與資訊學研究所教授兼任 所長 (2012-2018) • 國 立臺灣大學永齡生醫工程 中心主任 (2011-2017) • Program Director, Radiation Research Program, Division of Cancer Treatment and Diagnosis, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA (2009-2011). • Department of Environmental & Radiological Health Sciences, Colorado State University, Fort Collins, CO, U.S.A, Faculty Affiliate (2004-2018). • Head, Microarray Laboratory, Radiation Oncology Sciences Program, National Cancer Institute, National Institutes of Health, Gaithersburg, MD, USA (2000-2005).</p>	
張筱涵	<p>Department of Life Science, National Tsing Hua University, Hsinchu, Taiwan B.S. 2002-2006 Life Science Institute of Biotechnology, National Tsing Hua University, Hsinchu, Taiwan M.S. 2006-2008 Biotechnology Department of Statistics, Harvard University, Cambridge, MA, USA A.M. 2008-2013 Statistics Department of Organismic and Evolutionary Biology, Harvard University, Cambridge, MA, USA Ph.D. 2008-2013 Biology and evolution</p>	<p>2022-present Associate Professor, Institute of Bioinformatics and Structural Biology and Department of Life Science 2019-2022 Assistant Professor, Institute of Bioinformatics and Structural Biology and Department of Life Science College of Life Science, National Tsing Hua University, Hsinchu, Taiwan 2017- 2019 Research Associate in the Center for Communicable Disease Dynamics, Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, USA 2013-2016 Postdoctoral Fellow in the Center for Communicable Disease</p>	<p>ASSOCIATE PROFESSOR, INSTITUTE OF BIOINFORMATICS AND STRUCTURAL BIOLOGY, NATIONAL TSING HUA UNIVERSITY</p>

		Dynamics, Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, USA	
林嶽	國防醫學院生命科學研究所 博士 2016 統計方法開發 國防醫學院公共衛生研究所 碩士 2013 統合分析研究 中山醫學大學公共衛生學系 學士 2011 公共衛生	Aug 2021 — Recent Associate Professor School of Medicine, National Defense Medical Center Jun 2024 — Recent Director of AI lab Military Digital Medical Center, Tri-Service General Hospital Jul 2019 — Recent Deputy Director Medical Technology Education Center, National Defense Medical Center Aug 2016 — Recent Adjunct Assistant Professor School of Public Health, National Defense Medical Center Jun 2019 — Jun 2024 Chief Technology Officer AIoT center, Tri-Service General Hospital Jun 2020 — May 2024 Deputy Secretary-general Aviation Medical Association R.O.C. Aug 2018 — Jul 2021 Assistant Professor Graduate institute of life sciences, National Defense Medical Center Jul 2017 — Jul 2018 Postdoctoral Fellow Department of Research and Development, National Defense Medical Center	Associate Professor School of Medicine, National Defense Medical Center Director of AI lab Military Digital Medical Center, Tri-Service General Hospital
涂熊林	UNIVERSITY OF CALIFORNIA BERKELEY PHD 2008-2013 BIOPHYSICS, CHEMISTRY NATIONAL TAIWAN UNIVERSITY MS 2003-2005 CHEMISTRY NATIONAL CHIAO TUNG UNIVERSITY BS 1999-2003 APPLIED CHEMISTRY	Associate Research Fellow 2024-present Institute of Chemistry, Academia Sinica, Taiwan Associate Professor (co-adjunct) 2024-present Genome and Systems Biology Program, National Taiwan University, Taiwan Assistant Research Fellow 2017-24 Institute of Chemistry, Academia Sinica, Taiwan Assistant Professor (co-adjunct) 2019-24 Genome and Systems Biology Program, NTU and AS, Taiwan Postdoctoral Research Fellow (ETH lab relocation) 2016-17 Institute for Molecular Engineering, University of Chicago, Chicago, USA EMBO Long-Term Fellow 2014-16 Dept of Biosystem	Associate Research Fellow INSTITUTE OF CHEMISTRY ACADEMIA SINICA

		Science and Engineering, ETH Zurich, Switzerland Postdoctoral Scholar 2013-14 California Institute for Quantitative Biosciences, Berkeley, USA	
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議程:

日期	時間	講員	議程主題
2025-01-09	14:00-17:00		報到Registration
2025-01-09	18:00-19:20		開幕式/大會晚宴 Opening Remark / Welcome Banquet
2025-01-09	19:20-21:20		壁報論文競賽Poster Presentation
2025-01-10	09:00-09:20		30感恩有您 (暫定頒發獎座)
2025-01-10	09:20-10:00	林清詠 執行長	AI: Is biomedicine's Newtonian moment finally here?
2025-01-10	10:00-10:25	孫孝芳 教授	icONE sees the future of maternal-fetal precision medicine
2025-01-10	10:25-11:00		coffee break
2025-01-10	11:00-11:25	童俊維 研究員	AI in drug discovery
2025-01-10	11:25-11:50	林嶽 副教授	Utilizing a multimodal foundation model for constructing an AI-enabled opportunistic screening framework for the next-generation healthcare system
2025-01-10	11:50-13:30		午餐
2025-01-10	13:30-15:10		徐千田優秀論文競賽S1-S5
2025-01-10	15:10-15:50		coffee break
2025-01-10	15:50-17:10		徐千田優秀論文競賽S6-S9
2025-01-10	17:10-18:30		晚餐
2025-01-10	18:30-18:50	涂熊林 副教授	Investigation of single-cell NF-kB activation: Sensitivity towards input dynamics & membrane receptor
2025-01-10	18:50-19:10	張筱涵 副教授	Inferring dominant selective forces shaping the evolution of pathogens across space and time
2025-01-10	19:10-19:30	陳虹如 助理教授	Monocyte-to-Microglia Transition in Homeostasis and Disease
2025-01-10	19:30-19:50	麥德倫 助理教授	The Code of the Rings: Decoding Circular RNAs in Autism

2025-01-10	19:50-20:10	陳伯翰 助理教授	Induced Proximity and Targeted Protein Editing
2025-01-10	20:10-20:30	王齡玉 助理教授	Innovative PROTAC Strategies for Degrading Androgen Receptors in Advanced Prostate Cancer
2025-01-10	20:30-20:50	張雅煊 助理教授	Translational Medicine in the Face of Carcinogens: Genome Editing and Its Clinical Impact
2025-01-10	20:50-21:30		30重聚
2025-01-11	09:00-09:40	沈孟儒 校長	Keynote:Bridge Precision Medicine and Personal Healthcare by Digital Innovation
2025-01-11	09:40-10:05	劉承賢 教授	Organ/Tumor on Chip- reconstructing micro-environment in vitro for disease model and drug tests
2025-01-11	10:05-10:40		Coffee break
2025-01-11	10:40-11:05	陳冠宇 教授	Revolutionizing Drug Development: The Future of Organ-on-a-Chip Technology
2025-01-11	11:05-11:30	莊曜宇 副總暨生醫與醫材研究所所長	Biomedical big data and AI: current status & future development
2025-01-11	11:30-12:00		2025 Annual Meeting of the Members, Award Ceremony and Closing Remarks
2025-01-11	12:00-14:00		午餐
2025-01-11	14:00-14:05		賦歸

活動照片:(至少 10 張, 請填寫照片說明)



圖說 1 : Welcome & Opening Remarks-司徒惠康理事長



圖說 2 : 30 感恩有您: 頒發獎座及名譽會員證書



圖說 3:湯銘哲教授主持 keynote 1



圖說 4 : 林清詠執行長發表 Keynote 演講



圖說 5 : 施修明研究員主持 Session I



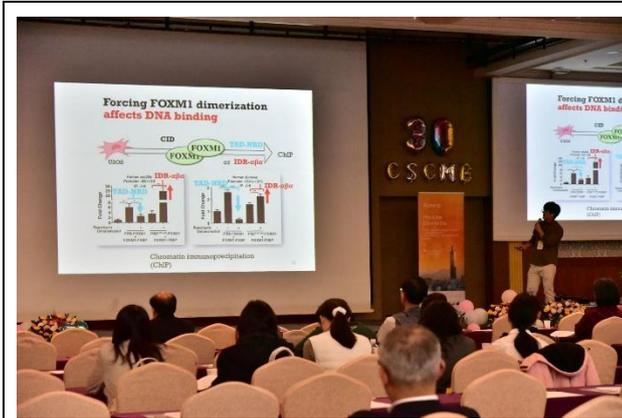
圖說 6 : 孫孝芳教授討論 AI 在母胎醫學的應用



圖說 7 : 林嶽副教授分享 AI 在藥物開發中的創新



圖說 8 : 童俊維研究員分享 AI 在藥物開發中的創新



圖說 9：徐千田優秀論文獎複審_口頭報告現場(1)



圖說 10：徐千田優秀論文獎複審_口頭報告現場(2)



圖說 11：優秀壁報論文競賽及展示現場(1)



圖說 12：優秀壁報論文競賽及展示現場(2)



圖說 13：早期徐千田獎得主與本屆前三名同學合影



圖說 14：頒發本屆優秀壁報論文獎並與前三名合影



圖說 15：頒發本屆優秀壁報論文獎並與佳作得主合影



圖說 16：由李岳倫老師頒發徐千田獎項佳作兩名



圖說 17：由本會理事長司徒惠康院士頒發徐千田獎項特優(第一名)並合影留念



圖說 18：由本會理事長司徒惠康院士頒發徐千田獎項頭等(第二名)並合影留念



圖說 19：由本會理事長司徒惠康院士頒發徐千田獎項優等(第三名)並合影留念



圖說 20：研討會茶點時間，與會老師與學生互相交流



圖說 21：由本會理事長司徒惠康院士頒發 30 感恩有您獎座及名譽會員證書予吳成文院士



圖說 22：由本會理事長司徒惠康院士頒發 30 感恩有您獎座及名譽會員證書予徐明達教授(由張仲明老師代表領獎)



圖說 23：大會晚宴時間，由本會陳瑞華理事上台開香檳儀式，歡慶本會知研討會 30 周年。



圖說 24：邀請前幾屆理事長:施修明老師、吳成文院士、張仲明老師、陳瑞華老師及現任理事長司徒惠康院士(由左由右)，一起與與會人員舉杯歡慶。



圖說 25：參加第 30 屆細胞及分子生物新知研討會暨 30 屆慶祝活動與會人員於墾丁福華渡假飯店大合照留影