

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 29 屆細胞及分子生物新知研討會

英文名稱：The 29th Symposium on Recent Advances in Cellular and Molecular Biology

中文摘要報告：

第 29 屆細胞及分子生物新知研討會業於 113 年 1 月 24 日至 1 月 26 日假屏東墾丁悠活渡假村舉行，本屆研討會現場共約 420 人共襄盛舉。

本屆研討會辦理兩場 Keynote Lecture (特別演講)，分別邀請到中央研究院唐堂副院長及中研院基因體研究中心李志浩特聘研究員擔任講者，講題分別為：「Centriole, Centrosome, and Cilium: How These Organelles are Built in Cells and How Their Function Contributes to Disease」及「Immunoregulatory mechanisms in fat cell development and function」。

Invited Lecture (專題演講)則邀請國內具傑出研究成果之優秀學者，分為三大主題演講：

Session I : Cell Therapy 由中研院王惠鈞院士主持，講員包含：謝清河特聘研究員、林口長庚醫院癌症疫苗暨免疫細胞治療核心實驗室洪舜郁主任、國立成功大學醫學院附設醫院心臟內科劉嚴文教授、國立清華大學生物醫學工程研究所陳韻晶教授。

Session II : RNA Biology & Nucleic acid drugs 由中央研究院生物醫學科學研究所周玉山特聘研究員主持，講員包含：中研院生醫所譚婉玉特聘研究員、國立成功大學生物化學暨分子生物學研究所余建泓助理教授、晴(視)航生物醫學集團卓夙航董事長兼執行長、中研院生醫轉譯研究中心李文山副主任、國衛院感染症與疫苗研究所劉士任副所長、國立清華大學分子與細胞生物研究所學士後醫學系王慧菁教授。

Session III : Metabolism 由彰基粒線體醫學暨自由基研究院魏耀揮院長主持，講員包含：國立陽明交通大學生命科學系暨基因體科學研究所蔡亭芬特聘教授、國立台灣大學資訊工程學系暨研究所曾宇鳳教授、中國醫藥大學細胞生物學研究所王志豪助理教授、國立清華大學生物科技研究所林愷悌副教授。

除上述 16 場學術演講外，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 150 篇壁報論文摘要之投稿，其中 120 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 16 位符合資格者投稿，經初選後挑選前 9 名優秀論文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，二十幾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。本屆藉由三大主題的交流，促進與會學員對於分子生物學領域之世界趨勢，以及與臨床經驗之結合有更深切的瞭解，進而導引出更深入之研討與探究。

英文摘要報告：

The 29th Symposium on Recent Advances in Cellular and Molecular Biology was held in Kenting (Pingtung County) from January 24th to 26th, 2024. There were 420 participants in total. Two keynote speakers were invited. One was Dr. **Tang, Tang K**, Vice President of Academia Sinica. The title of his lecture was “Centriole, Centrosome, and Cilium: How These Organelles are Built in Cells and How Their Function Contributes to Disease”. Another was Dr. **Chih-Hao Lee**, Distinguished Research Fellow and Director of Genomics Research Center, Academia Sinica, Academia Sinica. The title of his lecture was “Immunoregulatory mechanisms in fat cell development and function”.

In addition, there were three sections, including Cell Therapy, RNA Biology & Nucleic acid drugs, and Metabolism. We invited 16 local speakers to give remarkable lectures introducing their recent research findings.

Session I : Cell Therapy The Chairperson was Dr. **Andrew H.-J. Wang**, Distinguished Visiting Chair, Biomedical Translation Research Center, Academia Sinica. The invited speakers were Dr. **Hsieh, Patrick Ching-Ho**, Distinguished Research Fellow, Institute of Biomedical Sciences, Academia Sinica; Dr. **Shuen-iu Hung**, Director, Cancer Vaccine & Immune Cell Therapy Core Lab, Chang Gung Memorial Hospital, Linkou Branch; Dr. **Yen-Wen Liu**, Professor, Division of Cardiology, Department of Internal Medicine, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University; Dr. **Yun-Ching Chen**, Director, Biomedical Science & Engineering Center Professor, Institute of Biomedical Engineering, National Tsing Hua University.

Session II : RNA Biology & Nucleic acid drugs The Chairperson was Dr. **Yuh-Shan, Jou**, Distinguished Research Fellow Institute of Biomedical Sciences, Academia Sinica. The invited speakers were Dr. **Woan-Yuh Tarn**, Distinguished Research Fellow, Institute of Biomedical Sciences, Academia; Dr. **Chien-Hung Yu**, Assistant Professor, Department Biochemistry and Molecular Biology, National Cheng Kung University; Dr. **Suh-Hang Ju**, Chairman & CEO, DreamHawk (Sunhawk) Vision Biotech, Inc.; Dr. **Wen-Shan Li**, Deputy Director, Biomedical Translation Research Center, Academia Sinica; Dr. **Shih-Jen Liu**, Investigator & Deputy Director, National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes; Dr. **Lily Hui-Ching Wang**, Professor, School of Medicine, Institute of Molecular and Cellular Biology, National Tsing Hua University.

Session III : Metabolism The Chairperson was Dr. Yau-Huei Wei, D Director, Center for Mitochondrial Medicine and Free Radical Research, Changhua Christian Hospital. The invited speakers were Dr. Ting-Fen Tsai; Distinguished Professor, Department of Life Sciences and Institute of Genome Sciences, National Yang Ming Chiao Tung University; Dr. Yufeng Jane Tseng, Professor, Graduate Institute of Biomedical Engineering and Bioinformatics, Department of Computer Science & Information Engineering Metabolomics Core Laboratory, Genomics Center School of Pharmacy, National Taiwan University; Dr. Chih-Hao Wang, Assistant Professor, Graduate Institute of Cell Biology, China Medical University; Dr. Kai-Ti Lin, Associate Professor, Institute of Biotechnology & Department of Medical Science, National Tsing Hua University.

In addition to the 16 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. After the primary review, 9 presenters were elected to have on-site oral presentations to compete for the best four 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.

講員：

| 國別 | 職稱 | 姓名 |
|----|-----------|-----|
| 國內 | 副院長/特聘研究員 | 唐堂 |
| 國內 | 主任/特聘研究員 | 李志浩 |
| 國內 | 特聘研究員 | 謝清河 |
| 國內 | 主任 | 洪舜郁 |
| 國內 | 教授 | 劉嚴文 |
| 國內 | 教授 | 陳韻晶 |
| 國內 | 特聘研究員 | 譚婉玉 |
| 國內 | 助理教授 | 余建泓 |
| 國內 | 董事長兼執行長 | 卓夙航 |
| 國內 | 副主任 | 李文山 |
| 國內 | 副所長 | 劉士任 |
| 國內 | 教授 | 王慧菁 |
| 國內 | 特聘教授 | 蔡亭芬 |
| 國內 | 教授 | 曾宇鳳 |
| 國內 | 助理教授 | 王志豪 |
| 國內 | 副教授 | 林愷悌 |

研討(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

邀請主講人姓名及學經歷：

| 姓名 | 學歷 | 經歷 | 現任 |
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| 卓夙航 | 1997 美國約翰霍普金斯大學人類基因學及基因流行病學博士 1994 美國哈佛大學心血管流行病學碩士 1989 高雄醫學大學醫學醫學士 | 高雄醫學大學 基因體醫學科主任/教授 美國哥倫比亞大學 (常春藤名校) 副教授 美國哥倫比亞大學 (常春藤名校) 助理教授 美國哥倫比亞大學 基因體中心 藥物基因體主任 美國國家衛生研究院 約聘研究學者 美國國家衛生研究院 博士後研究員 美國洛克菲勒大學 博士後研究員 高雄醫學大學附設醫院 神經內科醫師 | 董事長兼執行長 睛航/視航生物醫學集團特聘教授/中國醫藥大學轉譯醫學及新藥開發研究所 |
| 李志浩 | 1999 Ph.D. University of Minnesota 1989 BS National Tsing-Hua University | 2023- Director, Genomics Research Center, Academia Sinica, Taipei, Taiwan 2023- Distinguished Research Fellow, Genomics Research Center, Academia Sinica, Taipei, Taiwan 2015-2023 Professor, Department of Molecular Metabolism (formerly Genetics & Complex Diseases), Harvard T.H. Chan School of Public Health, Boston, MA, USA | Distinguished Research Fellow, Genomics Research Center, Academia Sinica, Taipei, Taiwan |

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| | | <p>2010-2015 Associate Professor, Department of Genetics & Complex Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, USA 2004-2010 Assistant Professor, Department of Genetics & Complex Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, USA</p> | |
| 謝清河 | <p>1992 M.D. Kaohsiung Medical University, Taiwan 2003 Ph. D. University of Washington, Seattle, WA 2006 PDF Harvard Medical School, Boston, MA</p> | <p>2022-present Chair, Institutional Review Board (IRB) Biomedical Committee, Academia Sinica 2019-present Distinguished Research Fellow, Institute of Biomedical Sciences, Academia Sinica 2018-present Chief, Division of Cardiovascular and Metabolic Diseases, IBMS, AS 2019-present Joint Professor, Kaohsiung Medical University 2016-present Joint Professor, National Taiwan University College of Medicine 2014-present Affiliate Professor, Bioengineering, University of Washington, Seattle, WA, USA 2017-present Visiting Professor, Medicine and Stem Cell and Regenerative Medicine Center, University of Wisconsin School of Medicine and Public Health, Madison, WI, USA 2006-2013 Assistant, Associate and Full Professor, Clinical Medicine & BME, National Cheng Kung University; Attending Surgeon, Cardiovascular Surgery, NCKU Hospital 2009-2015 Assistant, Associate and Full Research Fellow, IBMS, AS 2014-2020 Affiliate Attending Physician, Cardiovascular Surgery, NTU Hospital</p> | <p>DISTINGUISHED RESEARCH FELLOW Institute of Biomedical Sciences, Academia Sinica</p> |

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| 譚婉玉 | Institute of Life Science, National Tsing Hua University Ph.D. 1993 Molecular Biology | Postdoc Associate, Yale University, USA (1993-1996) Assistant Research Fellow (1996-2001), Assistant Research Fellow (2001-2007), Research Fellow (2007-2022), Distinguished Research Fellow (2002-present), Institute of Biomedical Sciences, Academia Sinica Adjunct Professor, Institute of Molecular Medicine, National Taiwan University | Distinguished Research Fellow Institute of Biomedical Sciences, Academia Sinica |
| 劉嚴文 | 1999 M.D. National Cheng Kung University, Taiwan 2012 Ph.D. National Cheng Kung University, Taiwan 2015 Post-doctoral Fellow, University of Washington, Seattle, WA | 2010 ~ Attending physician, Division of Cardiology, Department of Internal Medicine, National Cheng Kung University Hospital, Tainan, Taiwan 2021 ~ Professor, Division of Cardiology, Department of Internal Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan 2021~ Professor, Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan | Professor, Division of Cardiology, Department of Internal Medicine, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University |
| 蔡亭芬 | 1989-1995 Ph.D. Graduate Institute of Microbiology and Immunology, National Yang-Ming University, Taipei, Taiwan 1995-1999 MS Howard Hughes Medical Institute, Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, USA | 1. 2023/08-present, Lifetime Distinguished Professor, Department of Life Sciences and Institute of Genome Sciences, National Yang Ming Chiao Tung University, Taipei, Taiwan. 2. 2017/01-2023/07, Distinguished Professor, Department of Life Sciences and Institute of Genome Sciences, National Yang Ming Chiao Tung University, Taipei, Taiwan. 3. 2010/02-2016/12, Professor, Department of Life Sciences and Institute of Genome Sciences, National Yang-Ming University, Taipei, Taiwan. 4. 2012/05-present, Investigator (Joint Appointment), Institute of Molecular and Genomic Medicine, National Health Research Institute, Zhunan, Miaoli County, Taiwan. | Distinguished Professor Department of Life Sciences and Institute of Genome Sciences National Yang Ming Chiao Tung University Investigator Institute of Molecular and Genomic Medicine, National Health Research Institute |

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| 曾宇鳳 | 2002 Ph.D. Medicinal Chemistry and Pharmacognosy, University of Illinois at Chicago, Chicago, IL | 2020 — 2023 Associate Chairman, Department of Computer Science and Information Engineering, National Taiwan University 2016 — 2022 Associate Director, The Neurobiology and Cognitive Science Center, National Taiwan University 2015 — 2021 Director, Drug Research Center, National Taiwan University 2018 — 2018 Distinguished Research Fellow, Industrial Technology Research Institute, Taiwan 2017 — 2017 Advisor, Biomedical Technology and Device Research Laboratories, Industrial Technology Research Institute, Taiwan 2011 — 2014 Steering Committee, Teach-Discover-Treat 2010 — 2015 Group Leader, Molecular modeling unit, Drug Research Center, National Taiwan University 2008 — 2014 Associate Professor, Graduate Institute of Biomedical Electronics, and Bioinformatics, Department of Computer Science and Information Engineering, School of Pharmacy, National Taiwan University, Taiwan 2006 — 2008 Assistant Professor, Institute of Biomedical Electronics, and Bioinformatics, Department of Computer Science and Information Engineering (joint position), School of Pharmacy (joint position since 2007), National Taiwan University, Taipei, Taiwan 2004 — 2006 Research Fellow, National Center of Biotechnology Information, National Institute of Health, Bethesda, MD, USA 1998 — 2006 Principal Molecular Modeling Software Developer, The Chem21 Group, Inc., Lake Forest, USA | 2022 — Professor, Master's Program in Smart Medicine and Information, National Taiwan University 2020 — Principal Investigator, Stanford-Taiwan Biomedical Fellowship Program, STPI 2019 — Center Scientists, National Center for Theoretical Sciences, Physics Division (NCTS Physics) 2019 — Ministry of Science and Technology Science Park Application Review Committee 2018 — Chairman, Asia SPARK Regional Committee 2018 — Global SPARK executive committee 2017 — Director, SPARK Taiwan 2017 — Research Fellow, National Applied Research Laboratories, Taiwan 2014 — Professor, Graduate Institute of Biomedical Electronics, and Bioinformatics, Department of Computer Science and Information Engineering, School of Pharmacy, National Taiwan University, Taiwan 2010 — Program Chair, Drug Discovery Symposium, American Chemical Society National Meetings 2009 — Principle Investigator, Metabolomics Core Laboratory, Genomic Center, National Taiwan University |
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| 洪舜郁 | 2002 Ph. D. Institute of Microbiology and Immunology, National Yang-Ming University, Taipei, Taiwan | 2019-present, Director, Cancer Vaccine & Immune cell therapy core Lab, Chang Gung Memorial Hospital, Taoyuan, Taiwan. 2019-present, Adjunct Professor, Institute of Pharmacology, National Yang Ming Chiao Tung University, Taoyuan, Taiwan. 2006-2019 Assistant Professor to full Professor, Institute of Pharmacology, National Yang Ming University, Taipei, Taiwan. | Director, Cancer Vaccine & Immune Cell Therapy Core Lab, Chang Gung Memorial Hospital, Linkou Branch, Taoyuan, Taiwan. Adjunct Professor, Institute of Pharmacology, National Yang Ming Chiao Tung University, Taipei, Taiwan. |
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| <p>王慧菁</p> | <p>2017-2019 Bachelor of Laws, National Tsing Hua University 1998-2004 Ph.D., Department of Basic Medical Sciences, National Cheng Kung University, Taiwan Bachelor, Department of Biology, National Cheng Kung University, Taiwan</p> | <p>Since 8/22' Section Chief, Division of Learning Support and Research Planning, Center for Teaching and Learning Development, National Tsing Hua University, Taiwan 國立清華大學教學發展中心學習與研究發展組 組長 Since 8/22' Professor, School of Medicine, National Tsing Hua University, Taiwan 國立清華大學 學士後醫學系教授 Since 8/21' Professor, Institute of Molecular and Cellular Biology, National Tsing Hua University, Taiwan 國立清華大學 分子與細胞生物研究所 教授 8/15'-7/21' Associate Professor, Institute of Molecular and Cellular Biology, National Tsing Hua University, Taiwan 國立清華大學分子與細胞生物研究所 副教授 8/10'-7/15' Assistant Professor, Institute of Molecular and Cellular Biology, National Tsing Hua University, Taiwan 國立清華大學分子與細胞生物研究所 助理教授 8/09'-7/10' Project Leader, Biozentrum, University of Basel, Basel, Switzerland 瑞士巴賽爾大學 生物中心 計畫主持人 6/06'-8/09' Postdoc Fellow, Department of Cell Biology, Max-Planck Institute of Biochemistry, Martinsried (Munich), Germany 德國馬克斯普朗克生化研究所 博士後研究 7/04'-5/06' Postdoc Fellow, Division of Clinical Research, National Health Research Institutes, Taiwan 國家衛生研究院臨床研究組 博士後研究 6/01'-9/01' Research Scientist, Department of Pathology, University of Washington, Seattle, Washington, USA 美國西雅圖華盛頓大學 病理部 訪問學者</p> | <p>Professor, Institute of Molecular and Cellular Biology, National Tsing Hua University, Taiwan</p> |
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| 陳韻晶 | 1998-2002 B.S. National sun yat-sen university 2002-2004 M.S. National taiwan university 2006-2010 Ph.D. University of North Carolina at Chapel Hill | 2020~present Professor, Institute of Biomedical Engineering, National Tsing Hua University, Hsinchu, Taiwan. 2016~2020 Associate Professor, Institute of Biomedical Engineering, National Tsing Hua University, Hsinchu, Taiwan. 2013~2016 Assistant Professor, Institute of Biomedical Engineering, National Tsing Hua University, Hsinchu, Taiwan. 2010~2013 Research fellow, Tumor Biology and Biomedical Engineering, Massachusetts General Hospital and Harvard Medical School, Boston, MA. | DIRECTOR BIOMEDICAL SCIENCE AND ENGINEERING CENTER PROFESSOR INSTITUTE OF BIOMEDICAL ENGINEERING NATIONAL TSING HUA UNIVERSITY |
| 余建泓 | Molecular Genetics, Leiden University, Leiden, The Netherlands Ph.D. 2011 RNA in gene regulation Agricultural Chemistry, National Taiwan University, Taipei, Taiwan Master 2004. Agricultural Chemistry, National Taiwan University, Taipei, Taiwan Bachelor 2002 Bacterial protease | Assistant Professor, Biochemistry and Molecular Biology, National Cheng Kung University, Tainan, Taiwan (02/2017~present) Postdoctoral Researcher, Physiology, UT Southwestern Medical Center, Dallas, TX, USA (04/2013~01/2017) Postdoctoral Researcher, Molecular Genetics, Leiden University, Leiden, The Netherlands (01/2012~12/2012) | Assistant Professor/Department of Biochemistry and Molecular Biology, National Cheng Kung University |
| 王志豪 | 2008-2014 Ph. D. Institute of Biochemistry and Molecular Biology, National Yang Ming Chiao Tung University, Taiwan 2006-2008 M.S. Institute of Biochemistry and Molecular Biology, National Yang Ming Chiao Tung University, Taiwan 2002-2006 B.S. Department of Biotechnology and Laboratory Science in Medicine, National Yang Ming Chiao Tung | 2013 Informa Healthcare Young Investigator Award, Society for Free Radical Research 2014 Excellent Oral Presentation Award, National Yang-Ming University 2015 Excellent Oral Presentation Award, Professor Jung-Yaw Lin Science and Education Foundation 2016 Scholarship Award, Keystone symposia 2017 Travel Award, Joslin Diabetes Center 2018 Young Investigator Travel Grant Award, American Diabetes Association 2022 Poster Award, International Conference on Advanced Biomedical Sciences 2022 Excellent Young Investigator Award, Asia Pacific Nutrigenomics Nutrigenetics Organization | ASSISTANT PROFESSOR, Graduate Institute of Cell Biology China Medical University, Taiwan |

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| 唐堂 | *Tunghai University, Taiwan BS 1978 Biology *National Yang Ming Univ, Taiwan MS 1983 Microbiology and Immunology *Yale University, USA M.Ph., PhD 1988 Human Genetics | *1988-1989 Postdoctoral Fellow Dept. of Medicine, Hematology Section, Yale University *1989-2010 Associate Research Fellow and Research Fellow, Institute of Biomedical Sciences (IBMS), Academia Sinica *1997-1999 Deputy Director, IBMS, Academia Sinica *2004-2006 Deputy Executive Secretary, The Central Advisory Committee, Academia Sinica *2006-2007 Executive Secretary, The Central Advisory Committee, Academia Sinica *2008-2009 Director, Advisory office, Ministry of Education *2011-2012 Advisory member, Advisory Office, Ministry of Education *2010- Distinguished Research Fellow, IBMS, Academia Sinica *2022- Academician and Vice President, Academia Sinica | *Vice President, Academician. *Distinguished Research Fellow, Institute of Biomedical Sciences, Academia Sinica |
| 林愷悌 | 2008 Ph. D. Biomedical Science, University of California, Riverside | Associate Professor, National Tsing Hua University (2022-present) Assistant Professor, National Tsing Hua University (2017-2022) Assistant Research Scholar, National Health Research Institutes (2016-2017) | Associate Professor/ Institute of Biotechnology & Department of Medical Science, National Tsing Hua University |
| 劉士任 | 1998 Ph.D. Cancer Immunology, Institute of Life Science, National Defense Medical Center, Taiwan 1993 MS Protein chemistry, Department of Pharmacology, National Cheng Kung University, Taiwan 1989 BS Pharmacy, Department of Pharmacy, Kaohsiung Medical College, Taiwan | Investigator, National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Taiwan Professor (Jointly Appointed), Graduate Institute of Biomedical Science, China Medical University, Taiwan Professor (Jointly Appointed), Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Taiwan CEO of Bioproduction Plant, National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Taiwan Visiting Scholar, Division of Molecular Pharmaceutics, School of Pharmacy, University of North Carolina. US Research Associate, Vaccine R&D Center, National Health Research Institutes, Taiwan Director, Department of R&D, Anawrahta Biotech. Co., Taiwan Scientist, Department of R&D Anawrahta Biotech. Co., Taiwan | Investigator and Deputy Director, National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes |

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| <p>李文山</p> | <p>1997 Ph.D. Case Western Reserve University, OH, USA. Bioorganic and Medicinal Chemistry 1989 MS National Taiwan Normal University, Taipei, Taiwan. Organic Chemistry 1986 BS National Taiwan Normal University, Taipei, Taiwan. Chemistry</p> | <p>2023-present Deputy Director Biomedical Translation Research Center (BioTReC), National Biotechnology Research Park, Academia Sinica, Taiwan 2022-present Joint Appointment Research Fellow Biomedical Translation Research Center (BioTReC), National Biotechnology Research Park, Academia Sinica, Taiwan 2022-present Research Fellow Institute of Chemistry, Academia Sinica 2021-2022 Joint Appointment Associate Research Fellow, Biomedical Translation Research Center (BioTReC), National Biotechnology Research Park, Academia Sinica, Taiwan 2020-present Adjunct Associate Professor Department of Chemistry, College of Science, Tamkang University, Taiwan 2018-present Joint Appointment Associate Professor Department of Medicinal and Applied Chemistry, College of Life Science, Kaohsiung Medical University, Taiwan 2017-present Adjunct Associate Professor Ph.D. Program in Drug Discovery and Development Industry, College of Pharmacy, Taipei Medical University, Taiwan 2011-present Joint Appointment Professor Doctoral Degree Program in Marine Biotechnology, National Sun Yat-Sen University, Taiwan 2007-2022 Associate Research Fellow with tenure Institute of Chemistry, Academia Sinica, Taiwan 2001-2007 Assistant Research Fellow Institute of Chemistry, Academia Sinica, Taiwan 1999-2001 Postdoctoral Research Fellow Department of Chemistry, Texas A&M University, USA (with Dr. Frank M. Raushel) 1997-1999 Postdoctoral Research Fellow Department of Chemistry, Purdue University, USA (with Dr. Harry Morrison) 1991-1992 Teaching Assistant Department of Chemistry, National Taiwan Normal University, Taiwan 1986-1989 Teaching Assistant Department of Chemistry, National Taiwan Normal University, Taiwan 1985-1986 Intern Teaching Assistant Department of Chemistry, National Taiwan Normal University, Taiwan</p> | <p>1. Deputy Director / Biomedical Translation Research Center (BioTReC), Academia Sinica 2. Research Fellow / Institute of Chemistry, Academia Sinica</p> |
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議程:

| 日期 | 時間 | 講員 | 議程主題 |
|------------|-------------------|-----------------|--|
| 2024-01-24 | 18:30:00-18:40:00 | | Welcome & Opening Remark |
| 2024-01-24 | 18:40:00-19:10:00 | 謝清河 特聘研究員 | Metabolic Insights and Synergistic Cell Therapy for Cardiac Regeneration |
| 2024-01-24 | 19:10:00-19:40:00 | 洪舜郁 教授 | Personalized Neoantigen-based T Cell Therapy for Solid Tumors |
| 2024-01-24 | 20:00:00-20:30:00 | 劉嚴文 教授 | Generation of hypoimmunogenic human iPSC derived cardiomyocytes for cardiac regeneration |
| 2024-01-24 | 20:30:00-21:00:00 | 陳韻晶 教授 | Next-Generation Nanoscale Carriers for Enhanced Cancer Immunotherapy |
| 2024-01-25 | 08:00:00-09:00:00 | 唐堂 副院長 | Keynote I : Centriole, Centrosome, and Cilium: How These Organelles are Built in Cells and How Their Function Contributes to Disease |
| 2024-01-25 | 09:20:00-09:50:00 | 譚婉玉 特聘研究員 | lncRNAs coordinate with RNA processing factors in DNA damage repair |
| 2024-01-25 | 09:50:00-10:20:00 | 余建泓 助理教授 | Programmable modulation of ribosomal frameshifting by mRNA targeting CRISPR-Cas12a system |
| 2024-01-25 | 10:40:00-11:10:00 | 卓夙航 董事長兼執行長 | Development of RNA therapy for ocular diseases: From bench to clinical trials |
| 2024-01-25 | 11:10:00-11:25:00 | 李文山 副主任 | Introduction to Vaccine Manufacturing Process Development of Nucleic Acid Pilot Plant at Biomedical Translation Research Center (BioTReC), Academia Sinica |
| 2024-01-25 | 11:25:00-11:40:00 | 劉士任 副所長 | Nucleic acid drugs and raw materials service platform |
| 2024-01-25 | 11:40:00-11:55:00 | 王慧菁 教授 | mRNA技術在難以轉染細胞及動物模式的應用 |
| 2024-01-25 | 12:50:00-14:10:00 | | Poster Presentation I |
| 2024-01-25 | 14:20:00-17:40:00 | | Dr. Chien-Tien Hsu's Award Presentation |
| 2024-01-25 | 19:40:00-21:20:00 | | Poster Presentation II |
| 2024-01-26 | 08:00:00-09:00:00 | 李志浩 特聘研究員暨主任 | Keynote II: Immunoregulatory mechanisms in fat cell development and function |
| 2024-01-26 | 09:00:00-09:30:00 | 蔡亭芬 特聘教授 | AI-Enhanced Precision Medicine for Diabetic Kidney Disease |
| 2024-01-26 | 09:30:00-10:00:00 | 曾宇鳳 教授 | Exploring New Frontiers: 3D Spatial Reconstruction and Enhanced Visualization of Schizophrenia Mouse Brain Biomarkers Using Mass Spectrometry Imaging |
| 2024-01-26 | 10:15:00-10:45:00 | 王志豪 助理教授 | Endothelin 3/EDNRB signaling induces thermogenic differentiation of white adipose tissue |
| 2024-01-26 | 10:45:00-11:15:00 | 林愷悌 副教授 | H2S: The Overlooked Baserunner in Cancer |

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| | | | Metabolism |
| 2024-01-26 | 11:15:00-12:00:00 | | 2024 Annual Meeting of the Members, Award Ceremony and Closing Remarks |

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：開幕現場-與會人員



圖說 3：Session I, Chair:王惠鈞院士（右 1）



圖說 4：成大醫院劉嚴文教授演講 QA



圖說 5：Keynote Speech I-唐堂副院長



圖說 6：Keyonte Speech II-李志浩特聘研究員



圖說 7：魏耀揮院長專程主持 session III



圖說 8：徐千田優秀論文佳作獎頒獎典禮



圖說 9：恭請吳成文院士頒發徐千田優秀論文獎-特優獎



圖說 10：壁報論文競賽及展示，現場學生口頭報告



圖說 11：恭請陳瑞華特聘研究員頒發優秀壁報論文獎 15 位得獎者(1)



圖說 12：恭請陳瑞華特聘研究員頒發優秀壁報論文獎 15 位得獎者(2)



圖說 13：恭請陳瑞華特聘研究員頒發優秀壁報論文獎 15 位得獎者(3)



圖說 14：與會人員聚精會神地聆聽



圖說 15：參加第 29 屆細胞及分子生物新知研討會與會人員於墾丁悠活度假村大合照留影