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Welcome Message



Dear All:

Welcome to the 15th International Symposium of the Society of Chinese Bioscientists in America (SCBA)! Thanks to the dedication of the Scientific Program Committee, together with the strong support of the five sponsor institutions and many outstanding scientists across the globe, we have a superb scientific program (see the program book and visit <http://scba2015.meeting.sinica.edu.tw/program2.html>). Undoubtedly, the 2015 Symposium will highlight exciting progress and creative research in the biological and biomedical sciences, while also providing abundant networking opportunities and rich cultural exposure.

The recent Precision Medicine Initiative is inspiring! It challenges us to pursue fundamental basic biomedical research and apply the knowledge to enhance health and prevent diseases. We are fortunate to be holding the SCBA 2015 Symposium at this unique historic moment for groundbreaking biomedical and bioscience research. It is the right time and place to make a huge impact. We will share discoveries, experiences, ideas, opportunities, support, and visions. The SCBA 2015 Symposium will be a scientific feast!

This year marks the 30th anniversary of SCBA! Let us celebrate and have a wonderful time at the 2015 SCBA Symposium in Taipei!

Respectfully,

A handwritten signature in black ink, appearing to read 'Dihua Yu', written over a horizontal line.

Dihua Yu, M.D., Ph.D.
SCBA President

Organizers

SCBA



- The Society of Chinese Bioscientists in America (SCBA) is a non-profit organization founded by a few prominent and enthusiastic bioscientists in 1984.
- Currently, SCBA has ~2,500 members from various universities, academies, medical institutions, industrial and biotechnology companies.
- Since its inception, 40 SCBA Chapters have been formed in the US, Canada, China, Taiwan, Hong Kong, Singapore and Europe.

SCBA has five objectives:

- To promote research in biosciences
- To advance biological and medical knowledge
- To improve occupational opportunities of its members
- To facilitate professional networking among members
- To establish a spirit of fraternity and international cooperation

Examples of SCBA Activities:

- Scientific meetings in local chapters
- Cooperative research training programs
- Recruitment of faculties, researchers and investors globally and to USA and Asia
- Recruitment of post-doctoral fellows and pre-doctoral students
- Forming mutually beneficial connections and linkages with the US Biotechnology industry & the Asia-Pacific Rim countries
- Newsletters and website for information exchanges
- Social events at professional meetings for scientific networking

SCBA Website: <http://www.scbasociety.org/>

Sponsors and Local Organizers



Academia Sinica



National Health
Research Institutes



China Medical
University



National Taiwan
University



Taipei Medical
University

Financial Supports



Ministry of Science and Technology



Ministry of Health and Welfare

Committees

SCBA Officers

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Dihua Yu The University of Texas MD Anderson Cancer Center, USA

Secretary

Gen-Sheng Feng University of California, San Diego, USA

Treasurer

Hui Zheng Baylor College of Medicine, USA

Co-Executive Directors

Chris Lau University of California, San Francisco, USA

TC Wu John Hopkins University, USA

Council

Genhong Cheng University of California, Los Angeles, USA

Pu Paul Liu National Human Genome Research Institute, NIH, USA

Bing Su Yale University School of Medicine, USA

Ming-Jer Tsai Baylor College of Medicine, USA

Kuan-Liang Guan University of California, San Diego, USA

Guo-Min Li University of Kentucky, USA



Scientific Program Committee

Chair

Mien-Chie Hung The University of Texas MD Anderson Cancer Center, USA

Co-Chairs

Xiang-Dong Fu University of California, San Diego, USA

Dihua Yu The University of Texas MD Anderson Cancer Center, USA

Members

Chien-Jen Chen Academia Sinica, Taiwan

Junjie Chen The University of Texas MD Anderson Cancer Center, USA

Chuxia Deng University of Macau, China

Gen-Sheng Feng University of California, San Diego, USA

Xin-Hua Feng Zhejiang University, China

Kun-Liang Guan University of California, San Diego, USA

Jim Hu University of Toronto, Canada

Jing Shan Jennifer Hu Bayer HealthCare Pharmaceuticals, USA

Hsing-Jien Kung National Health Research Institutes, Taiwan

Chris Lau University of California, San Francisco, USA

Wen-Hwa Lee China Medical University, Taiwan

Guo-Min Li University of Kentucky, USA

Hui-Kuan Lin The University of Texas MD Anderson Cancer Center, USA

Pu Paul Liu National Human Genome Research Institute, NIH, USA

Yang Shi Harvard Medical School, USA

Zhou Songyang Baylor College of Medicine, USA

Bing Su Yale University School of Medicine, USA

Shao-Cong Sun The University of Texas MD Anderson Cancer Center, USA

Ming-Jer Tsai Baylor College of Medicine, USA

Xiao-Fan Wang Duke University School of Medicine, USA

Chi-Huey Wong Academia Sinica, Taiwan

TC Wu John Hopkins University, USA

Xifeng Wu The University of Texas MD Anderson Cancer Center, USA

Jane Wu Northwestern University Feinberg School of Medicine, USA

Tian Xu Yale School of Medicine, USA

Pan-Chyr Yang National Taiwan University, Taiwan

Yun Yen Taipei Medical University, Taiwan

Hua Yu City of Hope, USA

Ying E. Zhang Center for Cancer Research, NCI, NIH, USA

Hui Zheng Baylor College of Medicine, USA

Local Organizing Committee

Chair

Chi-Huey Wong Academia Sinica, Taiwan

Co-Chairs

Chien-Jen Chen Academia Sinica, Taiwan
Hsing-Jien Kung National Health Research Institutes, Taiwan
Wen-Hwa Lee China Medical University, Taiwan
Pan-Chyr Yang National Taiwan University, Taiwan
Yun Yen Taipei Medical University, Taiwan

Secretary General

Jen-Leih Wu Academia Sinica, Taiwan

Deputy Secretary General

Te-Chang Lee Academia Sinica, Taiwan

Members

Ching-Shih Chen Academia Sinica, Taiwan
Chung-Hsuan Chen Academia Sinica, Taiwan
Long-Fang Chen Academia Sinica, Taiwan
Soo-Chen Cheng Academia Sinica, Taiwan
Ya-Wen Cheng Taipei Medical University, Taiwan
Tao-Shih Hsieh Academia Sinica, Taiwan
Min-Liang Kuo National Taiwan University
Wen-Hsiung Li Academia Sinica, Taiwan
Leroy F. Liu Taipei Medical University, Taiwan
Fu-Tong Liu Academia Sinica, Taiwan
Ming-Che Shih Academia Sinica, Taiwan
Lu-Hai Wang National Health Research Institutes, Taiwan
Kou-Juey Wu China Medical University, Taiwan
Yang-Chang Wu China Medical University
Sung-Liang Yu National Taiwan University, Taiwan



Advisory Committee

Xuetao Cao	Chinese Academy of Medical Science, China
Tommy Yung-Chi Cheng	Yale School of Medicine, USA
Leland Chung	Cedars Sinai Medical Center, USA
Yan-Hwa Wu Lee	National Chiao Tung University, Taiwan
Horace Loh	University of Minnesota, USA
Lap-Chee Tsui	Hong Kong University, China
C. C. Wang	University of California, San Francisco, USA
James Wang	Harvard University, USA
Jianping Weng	Chinese Diabetes Society, China Third Hospital of Sun Yat-Sen University, China
Cheng-Wen Wu	National Yang-Ming University
Chung S. Yang	Rutgers University, USA
Alice Yu	Chang Gung Memorial Hospital, Taiwan
Junying Yuan	Harvard University, USA

SCBA Award Committee

Co-Chairs

Chuxia Deng	University of Macau, China
Xiao-Fan Wang	Duke University School of Medicine, USA

Members

Gen-Sheng Feng	University of California, San Diego, USA
Chris Lau	University of California, San Francisco, USA
Hui-Kuan Lin	The University of Texas MD Anderson Cancer Center
Ming-Jer Tsai	Baylor College of Medicine, USA
Sophia Tsai	Baylor College of Medicine, USA
TC Wu	John Hopkins University, USA
Dihua Yu	The University of Texas MD Anderson Cancer Center
Hui Zheng	Baylor College of Medicine

Travel Award Committee

Chair

Mien-Chie Hung The University of Texas MD Anderson Cancer Center

Members

Gen-Sheng Feng University of California, San Diego, USA
Xiang-Dong Fu University of California, San Diego, USA
Chris Lau University of California, San Francisco, USA
TC Wu John Hopkins University, USA
Dihua Yu The University of Texas MD Anderson Cancer Center
Hui Zheng Baylor College of Medicine

Poster Award Committee

Co-Chairs

Xiang-Dong Fu University of California, San Diego, USA
Gen-Sheng Feng University of California, San Diego, USA

Local Members

Ruey-Hwa Chen Academia Sinica
Ya-Wen Cheng Taipei Medical University
Yen-Hua Huang Taipei Medical University
Hseuh-Fen Juan National Taiwan University
Ming-Zong Lai Academia Sinica
Hsinyu Lee National Taiwan University
Kou-Juey Wu China Medical University
Muh-Hwa Yang National Yang-Ming University

USA Members

Xi He Harvard Medical School
Hui-Kuan Lin The University of Texas MD Anderson Cancer Center
Jinsong Liu The University of Texas MD Anderson Cancer Center
Kun-Ping Lu Harvard Medical School
Lin Mei GRU Cancer Center, USA
Shao-Cong Sun The University of Texas MD Anderson Cancer Center
Wenyi Wei Harvard Medical School
Jane Wu Northwestern University
Tian Xu Yale School of Medicine
Pan Zheng Children's National Medical Center

*** In alphabetical order by last name**



SCBA Past Presidents

1985	Horace Loh	University of Minnesota
1986	CC Wang	University of California, San Francisco (Retired)
1987	Tommy Cheng	Yale University
1988	Leland Chung	University of California, Los Angeles
1989	Savio Woo	Mount Sinai School of Medicine
1990	James Wang	Harvard University (Retired)
2002-2003	Jean Shih	University of Southern California
2004-2005	Mien-Chie Hung	University of Texas, MD Anderson Cancer Center
2006-2007	Kenneth Fong	Kenson Ventures, LLC
2008-2009	Robert Yu	Georgia Health Sciences University
2010-2011	Kuan-Teh Jeang	National Institutes of Health (Deceased)
2012-2013	Xiao-Fan Wang	Duke University

Conference Information

Conference Venue | Academia Sinica 中央研究院

Location: 1. Humanities and Social Science Building (HSSB) 人文社會科學館
2. Activity Center 活動中心

Address: 128 Academia Road, Section 2, Nankang, Taipei 115, Taiwan
台北市南港區研究院路二段 128 號

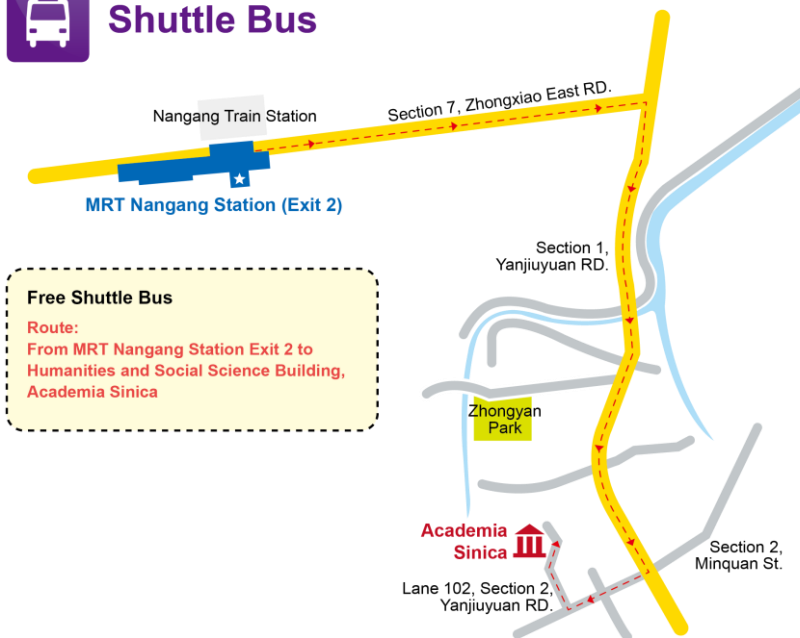


Shuttle Bus Schedule

Between MRT Nangang Station and Academia Sinica



Shuttle Bus



Free Shuttle Bus

Route:

From MRT Nangang Station Exit 2 to
Humanities and Social Science Building,
Academia Sinica

MRT Nangang Station → Academia Sinica

* Interval: 20-30mins

June 25 13:00-16:00

June 26-29 07:30-10:30

Academia Sinica → MRT Nangang Station

June 25 17:00 | 17:15

June 26 18:00 | 18:15 | 18:30 | 18:45 | 19:15

June 27 18:00 | 18:15 | 18:30 | 19:30 | 19:45

June 28 18:00 | 18:15

June 29 12:30 | 12:45

From Hotels to Academia Sinica

Shuttle buses are available from the following 3 hotels to the Academia Sinica.

Hotel \ Date & Time	June 26	June 27	June 28	June 29
San Wan Hotel	07:50	07:20	07:20	07:50
Gallery Hotel	08:15	07:45	07:45	08:15
Forward Hotel Taipei	08:30	08:00	08:00	08:30

SCBA 30th Anniversary Celebration Dinner (by invitation only)

June 25

17:20 Academia Sinica → Taipei World Trade Center Club
20:00 Taipei World Trade Center Club → Academia Sinica

Banquet

June 28

18:10 Academia Sinica → The Grand Hotel
21:30 The Grand Hotel → Academia Sinica
 The Grand Hotel → MRT Yuanshan Station
 The Grand Hotel → Grand Hyatt Taipei

Further Information:



Registration

Location:

3F Lobby, HSSB, Academia Sinica

Open Hours:

Thursday, June 25	13:00-17:00
Friday, June 26	08:00-17:00
Saturday, June 27	08:00-17:00
Sunday, June 28	08:00-17:00
Monday, June 29	08:30-10:40

Participant Badge

All participants will receive a name badge upon registration. Please wear and clearly display it at all times during the Symposium. Access to the Symposium venue will not be granted without a proper name badge.

Wifi

Access: scba2015

Password: scba2015



Language

The official language of the Symposium is English.

Food and Beverage

Lunch and Coffee Break will be served at 4F Lobby, HSSB.

Symposium Policy

- Smoking is prohibited at all times in the conference rooms and the entire conference site.
- Please switch your mobile phones off or to silent/vibration mode during all sessions.
- No photography and/or digital recording are allowed in any sessions (including posters) without special permission from the speakers and presenters.

Abstracts

All the Symposium abstracts are available on a USB flash drive in your registration package.

Social Programs

Welcome Reception

Date: Friday, June 25

Time: 17:00-19:00

Venue: 4F, HSSB, Academia Sinica

Fee: Complimentary

Banquet

Date: Sunday, June 28

Time: 19:00-21:30

Venue: The Grand Ballroom, 12F, The Grand Hotel

Address: No. 1, Sec. 4, Zhongshan N. Rd., Zhongshan Dist., Taipei City, Taiwan.

Fee: TWD 1,200

* Shuttle Buses are provided.

Preview Room

3F, Media Conference Room

Speakers are responsible for their presentation functionalities, including integrity and compatibility of their data file with the Symposium projection system, the USB flash drive, etc. Please check them prior to your presentation to make sure that they could be displayed correctly.

Preview Room Open Hours:

Thursday, June 25	13:00-17:00
Friday, June 26	08:00-17:00
Saturday, June 27	08:00-17:00
Sunday, June 28	08:00-17:00
Monday, June 29	08:30-10:40

Instruction for Presenters

Oral Presentations

Please take notice of the start time of your presentation, and arrive in the session room at least 30 minutes before the start of your session. Due to tight schedule, please do not exceed your allocated speaking time.

Presentation Notice

The computers of the conference will be operated under Windows 7 operating system and installed with Microsoft Office 2010, including Powerpoint 2010, connected with a digital projector. Slide projection will not be available.

For a Powerpoint presentation, you need to bring it either on a CD or USB storage device and load it onto the conference-designated computer in the conference room or preview room during the break prior to your session. Due to tight schedule, use of your personal computer for your individual presentation is strongly discouraged.

If a digital video is included in your presentation, please check it in the preview room or conference room of your lecture before the start of the session, or during a coffee break prior to your session.

Macintosh users: the Conference does not provide Macintosh computer, please convert it to Windows 7 and Microsoft Powerpoint 2010 compatible format, and check it in the Preview Room or the Conference Room of your lecture before the start of the session, or during a coffee break prior to your session. For keynote lectures, use of your own Macintosh computer equipped with a VGA socket for external device might be possible. For concurrent sessions, use of your own personal computer is strongly discouraged, due to tight schedule.



Poster Presentations

Each poster presentation is given a poster number for the purpose of easy reference.

P **A** **01**
poster theme Number

Themes

A	Biotech and Biopharm
B	Cancer Research
C	Gene Regulation and RNA Biology
D	Genomic Biology and Genetic Diseases
E	Immunity, Infection and Inflammation
F	Metabolic Diseases
G	Neuroscience, Aging and Degenerative Diseases
H	Plant Biology and Agricultural Sciences
I	Technology Development

Poster Area: 4F Corridor, HSSB

Mounting: June 26, 08:30-9:00

Poster Sessions:

Session 1 (odd number)

June 26, 12:15-13:45

Session 2 (even number)

June 28, 11:50-13:20

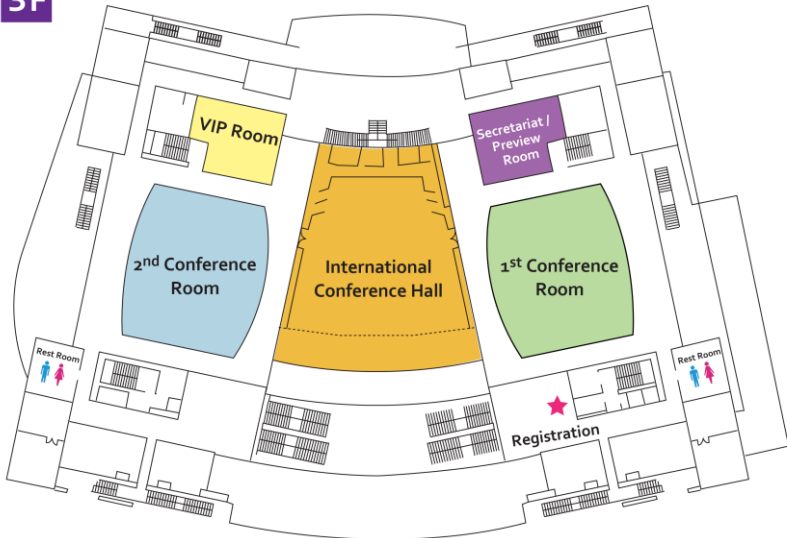
* Poster presenters are expected to be available at their posters during the poster session.

Poster Removal: June 29, 10:30-12:00

Floor Plan

Humanities and Social Science Building (HSSB)

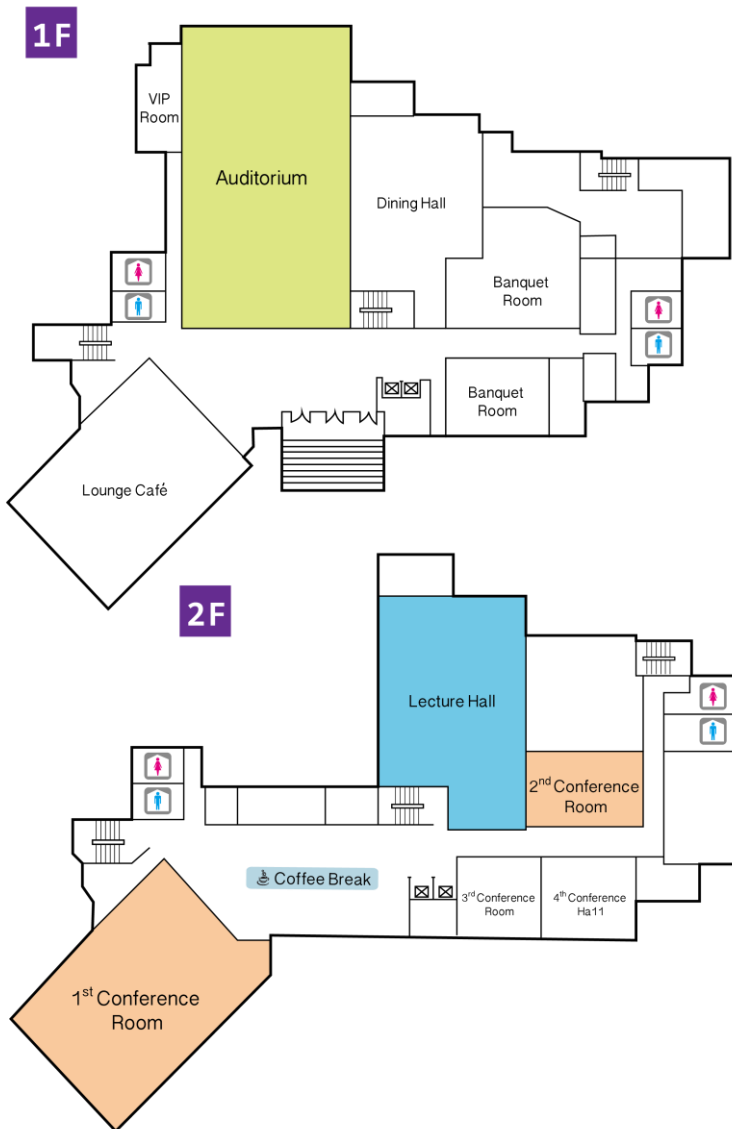
3F



4F



Activity Center



Invited Speakers

Keynote Speakers



From the Structure and Function of the Ribosome to New Antibiotics

Thomas Steitz (USA)

Nobel Laureate

Sterling Professor, Molecular Biophysics and Biochemistry

Professor, Chemistry, Yale University, USA



Targeting Phosphoinositide 3-Kinase for Cancer Therapy

Lewis Cantley (USA)

Director

The Cancer Center of Weill Cornell Medical College and

New York-Presbyterian Hospital, USA



Telomeres in Cancer and Aging

Ron DePinho (USA)

President

The University of Texas MD Anderson Cancer Center, USA

Distinguished Lecture Speakers



Chemistry and Biology of Glycosylation: A Search for Universal Vaccines against Cancer and Influenza

Scientific Breakthrough Lectureship

Chi-Huey Wong (Taiwan)

President

Academia Sinica, Taiwan



Taxol®, Tubulin and Tumors

Tsai-Fan Yu Legacy Lecture

Susan Band Horwitz (USA)

Distinguished Professor, Department of Molecular Pharmacology

Co-Chair, Department of Molecular Pharmacology

Rose C. Falkenstein Chair in Cancer Research

Albert Einstein College of Medicine of Yeshiva University, USA



Merkel Cell Polyomavirus: A New View of Cancer Viruses in the Age of Genomics

KT Jeang Memorial Lecture

Yuan Chang (USA)

American Cancer Society Research Professor

Distinguished Professor of Pathology

UPCI Chair of Cancer Virology

University of Pittsburgh Cancer Institute, USA



Cancer Immunotherapy by PD-1 Blockade

Tang Prize Lectureship

Tasuku Honjo (Japan)

Professor, Department of Immunology and Genomic Medicine

Graduate School of Medicine, Kyoto University, Japan

Chairman, Board of Directors,

Shizuoka Prefectural University Corporation, Japan

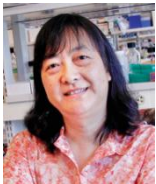
Plenary Speakers



Cryo-Electron Microscopy and Tomography: A Structural Tool for Molecular, Cellular and Translational Biology

Wah Chiu (USA)

Director, National Center for Macromolecular Imaging
Professor,
Department of Biochemistry and Molecular Biology
Baylor College of Medicine, USA



Redox Rhythm Reinforces the Circadian Clock to Gate Immune Response

Xinnian Dong (USA)

Professor, Department of Biology
Duke University, USA



Precision Therapy for Lung Cancer: Focus on East Asian Population

Pan-Chyr Yang (Taiwan)

President
Professor of Internal Medicine
National Taiwan University, Taiwan



Life at the Single Molecule Level: From Single Molecule Enzymology to Single Cell Genomics

Sunney Xie (USA)

Mallinckrodt Professor
Chemistry and Chemical Biology
Harvard University, USA



Chromatin Remodeling, DNA Breaks, and Activity-Induced Gene Expression in Neurons

Li-Huei Tsai (USA)

Picower Professor of Neuroscience
Director, The Picower Center for Learning and Memory
Department of Brain and Cognitive Sciences
Massachusetts Institute of Technology, USA



Perspectives on Anti-PD-L1/PD-1 Therapy for Advanced Human Cancers

Lieping Chen (USA)

Professor of Immunobiology, Dermatology and Medicine

Director of Cancer Immunology

Yale University School of Medicine, USA



Prevention of Liver Cancer through Control of Chronic Hepatitis B: From Epidemiology to Public Health Programs

Chien-Jen Chen (Taiwan)

Vice President

Academia Sinica, Taiwan



Neural Plasticity-Based Therapy of Brain Disorders

Mu-Ming Poo (USA)

Professor of Neurobiology

Department of Molecular and Cell Biology

University of California, Berkeley, USA

Awardees



V(D)J Recombination and RAG1-RAG2 Protein

Presidential Award Lecture

Wei Yang (USA)

Senior Investigator, Laboratory of Molecular Biology
NIDDK, National Institutes of Health, USA



Lifetime Achievement Award

Horace Loh (USA)

Regents Professor
Department of Pharmacology
University of Minnesota Medical School
Minneapolis, Minnesota, USA



Neural Stem Cells in the Adult Mammalian Brain

Young Investigator Award Lecture

Hongjun Song (USA)

Professor, Departments of Neurology and Neuroscience
and Director of the Stem Cell Biology Program
Institute for Cell Engineering
Johns Hopkins University School of Medicine, USA



Structural and Mechanistic Investigation of the Human Glucose Transporters GLUTs

Young Investigator Award Lecture

Nieng Yan (China)

Bayer Professor
School of Medicine
Tsinghua University, China

Editors



Wen-Chang Chang

Editor-in-Chief, Journal of Biochemical Science
National Chair Professor, Taipei Medical University
Emeritus Distinguished Chair Professor, National Cheng
Kung University



Angela Eggleston

Senior Editor, Nature



Li-Kuo Su

Editor, Cancer Cell



Valda J. Vinson

Deputy Editor, Research, Science



Jie Wang

Senior Scientific Editor
Cell Research

Program-at-a-Glance

Thursday June 25, 2015	
Time\Place	International Conference Hall, HSSB
	1st Conference Room, HSSB
	Pre-symposium Workshop 1 Chairs: Drs. Yun Yen, Xiao-Fan Wang
	Pre-symposium Workshop 2 Chairs: Drs. Richard Zhao, TC Wu
15:00-17:00	<p>Registration (13:00-17:00)</p> <p>Cancer Therapeutic Agents Workshop</p> <p>Dr. Li-Kuo Su Dr. Robert Diasio Dr. Mien-Chie Hung Dr. Meiyu Geng Dr. Yun Yen</p> <p>Chinese Biopharmaceutical Association (CBA) Theme: New Therapeutic Development against Human Diseases</p> <p>Dr. Richard Zhao Dr. Wanjun Chen Dr. Xuhang Li Dr. Wenxia Song Dr. Hongbin Wang</p>
18:00-20:00	<p>SCBA 30th Anniversary Celebration Dinner (Taipei World Trade Center Club)</p> <p>Bus Schedule: 17:20 in lobby of HSSB</p> <p>*By Invitation Only</p>

HSSB: A*: Intl. Conference Hall B*: 1st Conference Room C*: 2nd Conference Room
 Activity Center: D*: 1st Conference Room E*: 2nd Conference Room F*: Lecture Hall G*: Auditorium

Friday, June 26, 2015	
Time\ Place	International Conference Hall, HSSB
09:00	Opening Ceremony Welcome Speeches & Opening Remarks
09:40	
09:40	Keynote Lecture 1 Dr. Thomas Steitz
10:20	
10:20	2009 Nobel Laureate in Chemistry Scientific Breakthrough Lectureship Dr. Chi-Huey Wong
10:55	
10:55	Coffee Break
11:15	
11:15	Plenary Lecture 1 Dr. Wah Chiu Dr. Xinnian Dong
12:05	
12:05	Lunch / Poster session 1– Odd Number (12:15–13:45)
14:00	

Registration (08:00-17:00)

HSSB: A*: Intl. Conference Hall B*: 1st Conference Room C*: 2nd Conference Room G*: Auditorium
Activity Center: D*: 1st Conference Room E*: 2nd Conference Room F*: Lecture Hall

Friday, June 26, 2015						
Time\Place	A*	B*	C*	D*	E*	F*
14:00	Concurrent Session 1A	Concurrent Session 1B	Concurrent Session 1C	Concurrent Session 1D	Concurrent Session 1E	Concurrent Session 1F
15:15	The Roles of miRNAs and Non-Coding RNAs in Diseases	Breast Cancer and Steroid Hormone Signaling	Tumor Microenvironment in Cancer Progression and Metastasis	Neural Development and Circuit	Novel Molecular Mechanisms of Prostate Cancer Progression	Epigenetics and Chromatin
15:15	Coffee Break					
15:35	Concurrent Session 2A	Concurrent Session 2B	Concurrent Session 2C	Concurrent Session 2D	Concurrent Session 2E	Concurrent Session 2F
16:50	Diagnosis and Treatment of Genetic Diseases	Nuclear Receptor and Prostate Cancer	Anticancer Drug Discovery: From Targeted Therapy to Cancer Metabolism	Formation of Axons, Dendrites, Synapses and Circuits	Effective and New Approaches for Cancer Prevention	Biology of Aging
16:50	Mini Break					
17:00	Welcome Reception (4F, HSSB, Academic Sinica)					
19:00						

Registration (08:00-17:00)

HSSB: A*: Intl. Conference Hall B*: 1st Conference Room C*: 2nd Conference Room
 Activity Center: D*: 1st Conference Room E*: 2nd Conference Room F*: Lecture Hall G*: Auditorium

Saturday, June 27, 2015						
Time\ Place	International Conference Hall, HSSB					
08:30	Administrative Announcement					
08:35						
08:35	Keynote Lecture 2 Dr. Lewis Cantley					
09:15						
09:15	Dr. Tsai-Fan Yu Legacy Lecture Dr. Susan B. Horwitz					
09:50						
09:50	Coffee Break					
10:10						
10:10	Plenary Lecture 2 Dr. Pan-Chyr Yang Dr. Sunney Xie					
11:00						
11:00	The Journal Editors Session: How to Publish Editors: Wen-Chang Chang, Angela Eggleston, Li-Kuo Su, Jie Wang & Valda Vinson					
12:45						
12:00	Lunch					
13:30						
13:30	A* Concurrent Session 3A	B* Concurrent Session 3B	C* Concurrent Session 3C	D* Concurrent Session 3D	E* Concurrent Session 3E	F* Concurrent Session 3F
14:45	Metabolism and Epigenetics in Cancer	Cancer Stem Cells and Signaling in Cancer Development	Regulation of Immune Responses	Cell Signaling and Alzheimer's Disease	Microbiome and Inflammation	Hedgehog Signaling in Development and Disease
14:45	Coffee Break					
15:00						
Registration (08:00-17:00)						

HSSB: Activity Center: A*: Intl. Conference Hall B*: 1st Conference Room C*: 2nd Conference Room
D*: 1st Conference Room E*: 2nd Conference Room F*: Lecture Hall G*: Auditorium

Saturday, June 27, 2015						
Time\ Place	A*	B*	C*	D*	E*	F*
15:00	Concurrent Session 4A New Insights into Tumor Angiogenesis and Metastasis	Concurrent Session 4B Pin1 in Phosphorylation Signaling and Disease Treatment	Concurrent Session 4C T cell Differentiation and Diseases	Concurrent Session 4D Novel Anticancer Target Identification and Drug Discovery	Concurrent Session 4E Trichoderma and Their Applications in Biomass Degradation and Biocontrol	Concurrent Session 4F Immunology and Inflammation
16:15	Mini Break					
16:30						
16:30	Concurrent Session 5A DNA Damage Response: Mechanistic Implications in Cancer Development	Concurrent Session 5B p53, DNA Repair, Metabolism, and Anticancer Intervention	Concurrent Session 5C Ubiquitin Signaling in Inflammation and Cancer	Concurrent Session 5D Cancer Microenvironment and Immunotherapy	Concurrent Session 5E Proteins and Peptides in Drug Delivery	Concurrent Session 5F Genome Maintenance
17:45	Mini Break					
18:00						
18:00				Career Development in Academy (Light dinner provided)		Funding, Training and Knowledge-Based Resources (Light dinner provided)
19:30						

Registration (08:00-17:00)

HSSB: A*: Intl. Conference Hall B*: 1st Conference Room C*: 2nd Conference Room
Activity Center: D*: 1st Conference Room E*: 2nd Conference Room F*: Lecture Hall G*: Auditorium

Sunday, June 28, 2015	
Time\Place	International Conference Hall, HSSB
08:30	Administrative Announcement
08:35	
08:35	Presidential Award Lecture
09:10	Dr. Wei Yang
09:10	
09:20	Lifetime Achievement Award Lecture
09:20	Dr. Horace Loh
09:20	
09:20	Young Investigator Award Lecture
10:00	Dr. Hongjun Song, Dr. Nieng Yan
10:00	
10:20	Coffee Break
10:20	
10:50	KT Jeang Memorial Lecture
10:50	Dr. Yuan Chang
11:40	Plenary Lecture 3
11:40	Dr. Li-Huei Tsai
11:40	Dr. Lieping Chen
11:40	
13:30	
Lunch / Poster Session 2 - even number (11:50-13:20)	
	A*
	B*
	C*
	D*
	E*
	F*
	G*
13:30	Concurrent Session 6A Regulation of Energy Metabolism in Human Disease
14:45	Concurrent Session 6B RNA Helicase and RNA Binding Proteins: From Biochemistry to Disease
	Concurrent Session 6C Chromatin and Genome Maintenance
	Concurrent Session 6D iPSC-Based Modeling of Neurodevelopment and Diseases
	Concurrent Session 6E New Roles for Thyroid Hormone Regulation and Diseases
	Concurrent Session 6F Heart Development and Diseases
	Concurrent Session 6G Frontier in Leukemia Therapy

Registration (08:00-17:00)

HSSB:
Activity Center:

A*: Intl. Conference Hall
D*: 1st Conference Room

B*: 1st Conference Room
E*: 2nd Conference Room

C*: 2nd Conference Room
F*: Lecture Hall

G*: Auditorium

Sunday, June 28, 2015							
Time\ Place	A*	B*	C*	D*	E*	F*	G*
14:45 15:00	Coffee Break						
15:00 16:15	Concurrent Session 7A Nuclear Receptor-Mediated Signaling in Liver Cancer	Concurrent Session 7B MAO A Dysregulation and Related Disease	Concurrent Session 7C Genetic and Genomic Approaches for the Study of Sexual Development	Concurrent Session 7D TGF-Beta Signaling in Stem Cell and Cancer	Concurrent Session 7E Frontiers in Functional Exploration of GLP-1 and GLP-1 Based Drugs in Diabetes and Obesity Treatment and Prevention	Concurrent Session 7F DNA Replication and Genome Stability Research in China	Concurrent Session 7G Oncogenic Viruses
16:15 16:30	Mini Break						
16:30 17:45	Concurrent Session 8A The Rhythm of Metabolism, and Mitochondria's Struggle between Power and Age	Concurrent Session 8B The Symphony of Metabolic Organs: From the Brain to the Periphery	Concurrent Session 8C New Development in Structure Biology	Concurrent Session 8D Emerging Viral Diseases	Concurrent Session 8E Cardiovascular Regeneration and Disease	Concurrent Session 8F Genomic Stability	Concurrent Session 8G Translating Research to Technology or Therapeutics Product
19:00 21:30	Banquet (The Grand Hotel)						
Bus Schedule: 18:10 in lobby of HSSB							

HSSB: A*: Intl. Conference Hall B*: 1st Conference Room C*: 2nd Conference Room
Activity Center: D*: 1st Conference Room E*: 2nd Conference Room F*: Lecture Hall G*: Auditorium

Monday, June 29, 2015	
Time\ Place	International Conference Hall, HSSB
09:00	Administrative Announcement & Prize Drawing #1
09:10	
09:10	Keynote Lecture 3 Dr. Ronald DePinho
09:50	
09:50	Tang Prize Lectureship Dr. Tasuku Honjo
10:20	
10:20	Coffee Break
10:40	
10:40	Plenary Lectures 4 Dr. Chien-Jen Chen Dr. Mu-Ming Poo
11:30	
11:30	Award Announcement & Prize Drawing #2 Closing Ceremony
12:10	
12:10	Lunch
13:00	Organized Tours
17:30	
Registration (08:30-10:40)	

HSSB: A*: Intl. Conference Hall B*: 1st Conference Room C*: 2nd Conference Room G*: Auditorium
Activity Center: D*: 1st Conference Room E*: 2nd Conference Room F*: Lecture Hall



Cancer Therapeutic Agents Workshop

Chairpersons: Yun Yen (Taipei Medical University, Taiwan)

Xiao-Fan Wang (Duke University School of Medicine, USA)

- 15:00-15:24 WS-1-1 (TBA)
Li-Kuo Su (Editor, Cancer Cell, USA)
- 15:24-15:48 WS-1-2 Genomic Guided Approaches in Treating Cancer
Robert Diasio (Director, Mayo Clinic Cancer Center, USA)
- 15:48-16:12 WS-1-3 Signal Crosstalk in Resistance to Target Therapy
Mien-Chie Hung (Vice President for Basic Research, The University of Texas MD Anderson Cancer Center, USA)
- 16:12-16:36 WS-1-4 c-Myc Alterations Confer Therapeutic Response and Acquired Resistance to c-Met Inhibitors in MET-addicted Cancers
Meiyu Geng (Vice Director, Shanghai Institute of Materia Medica, China)
- 16:36-17:00 WS-1-5 Nano Particle and Cancer Medicine
Yun Yen (President, Taipei Medical University, Taiwan)



Chinese Biopharmaceutical Association (CBA)

Chairpersons: Richard Zhao (University of Maryland, USA) /

TC Wu (John Hopkins University, USA)

- | | | |
|-------------|--------|--|
| 15:00-15:24 | WS-2-1 | Discovery of Small Molecule Chemical Probes against HIV
Richard Zhao (University of Maryland, USA) |
| 15:24-15:48 | WS-2-2 | Immunotherapy for Autoimmune Diseases
Wanjun Chen (National Institutes of Health, USA) |
| 15:48-16:12 | WS-2-3 | Differential Regulation of Intestinal Macrophage Function by Interleukin-10 and the Gut Microbiota in the Colon versus the Small-Bowel
Xuhang Li (Johns Hopkins University School of Medicine, USA) |
| 16:12-16:36 | WS-2-4 | Non-Muscle Myosin II in Polarized Epithelial Cells is a Regulatory Target for Neisseria Gonorrhoeae to Modulate Infection
Wenxia Song (University of Maryland, USA) |
| 16:36-17:00 | WS-2-5 | The Constitutive Androstane Receptor as a Regulator of Drug Metabolism and Therapeutic Target
Hongbing Wang (University of Maryland, USA) |



Opening Ceremony

- 09:00-09:40 Welcome Ceremony & Opening Remarks
Dihua Yu (President, SCBA)
Chien-Jen Chen (Vice President, Academia Sinica)
Been-Huang Chiang (Minister, Ministry of Health and Welfare)
Chung-Liang Chien (Deputy Minister, Ministry of Science and Technology)

Keynote Lecture 1

Chairperson: Mien-Chie Hung (The University of Texas MD Anderson Cancer Center, USA)

- 09:40-10:20 KL-1 From the Structure and Function of the Ribosome to New Antibiotics
Thomas Steitz (Yale University, USA)

Scientific Breakthrough Lectureship

Chairperson: Chien-Jen Chen (Academia Sinica, Taiwan)

- 10:20-10:55 DL-1 Chemistry and Biology of Glycosylation: A Search for Universal Vaccines against Cancer and Influenza
Chi-Huey Wong (Academia Sinica, Taiwan)
- 10:55-11:15 Coffee Break

Plenary Lecture 1

Chairpersons: Wen-Hwa Lee (China Medical University, Taiwan)
Gen-Sheng Feng (University of California, San Diego, USA)

- 11:15-11:40 PL1-1 Cryo-Electron Microscopy and Tomography: A Structural Tool for Molecular, Cellular and Translational Biology
Wah Chiu (Baylor College of Medicine, USA)
- 11:40-12:05 PL1-2 Redox Rhythm Reinforces the Circadian Clock to Gate Immune Response
Xinnian Dong (Duke University, USA)

Lunch / Poster Session I

- 12:05-14:00 Poster session I – Odd Number (12:15-13:45)
4F Corridor, HSSB



1A: The Roles of miRNAs and Non-Coding RNAs in Diseases

Chairperson: Burton B. Yang

- | | | |
|-------------|------|--|
| 14:00-14:15 | 1A-1 | Reciprocal Regulation of miRNAs and piRNAs in Embryonic Development
Burton B. Yang |
| 14:15-14:30 | 1A-2 | MicroRNA-135a Induced Formation of CD133+Cell Sub-Population with Cancer-Initiating Cell Properties in Cervical Cancer
Ronald T.K. Pang |
| 14:30-14:45 | 1A-3 | Expression of microRNA-195 Is Transactivated by Sp1 but Inhibited by HDAC3 in Hepatocellular Carcinoma Cells
Shi-Mei Zhuang |
| 14:45-15:00 | 1A-4 | lncRNAs Regulate Replication of Herpes Simplex Virus Type 1
Yaou Zhang |
| 15:00-15:15 | 1A-5 | The Emergence of Long Non-Coding RNAs in Cancer Signaling Pathways
Liuqing Yang |
| 15:15-15:35 | | Coffee Break |

2A: Diagnosis and Treatment of Genetic Diseases

Chairpersons: Yuan-Tsong Chen / Fuu-Jen Tsai

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|-------------|------|---|
| 15:35-15:50 | 2A-1 | Regulation of IGF1 Expression: Complex Interaction among SNPs, Microsatellites and Transcriptional Factors
Nelson Tang |
| 15:50-16:05 | 2A-2 | Gene Therapy for Aromatic L-Amino Acid Decarboxylase (AADC) Deficiency
Paul Wuh-Liang Hwu |
| 16:05-16:20 | 2A-3 | The Development of Treatments for FGFR3 Related Diseases
Yi-Ching Lee |
| 16:20-16:35 | 2A-4 | Kawasaki Disease – From GWAS to Biomarker for Early Diagnosis
Jer-Yuarn Wu |
| 16:35-16:50 | 2A-5 | Identification and Functional Characterization of Familial Short Stature Susceptibility Loci Using a GWAS Scan
Ying-Ju Lin |
| 16:50-17:00 | | Mini Break |



1B: Breast Cancer and Steroid Hormone Signaling

Chairpersons: Chuxia Deng / Jianming Xu

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|-------------|------|--|
| 14:00-14:15 | 1B-1 | Interplay between Brca1 and Estrogen Signaling during Tumorigenesis
Chuxia Deng |
| 14:15-14:30 | 1B-2 | SRC-1, a Key Nuclear Receptor Transcriptional Coregulator Driving Breast Cancer Metastasis
Jianming Xu |
| 14:30-14:45 | 1B-3 | Understanding the Role of Cancer-Derived Extracellular miRNA in Breast Cancer Metastasis
Shizhen Emily Wang |
| 14:45-15:00 | 1B-4 | A Novel Link between BRCA1 and Pubertal Transcription
Rong Li |
| 15:00-15:15 | 1B-5 | Global Analysis of Estrogen Signaling in Breast Cancer Cells
Edwin Cheung |
| 15:15-15:35 | | Coffee Break |

2B: Nuclear Receptor and Prostate Cancer

Chairpersons: Ming-Jer Tsai / Chawnschang Chang

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|-------------|------|---|
| 15:35-15:50 | 2B-1 | Coregulator NCoA2 in Metastatic and Castration Resistant Prostate Cancer
Jun Qin |
| 15:50-16:05 | 2B-2 | A Reciprocal Regulation of microRNA and COUP-TFII Promotes Prostate Cancer Malignancy
Shih-Chieh (Jay) Lin |
| 16:05-16:20 | 2B-3 | Approaches to Preventing Prostate Cancer Bone Metastasis
Sue-Hwa Lin |
| 16:20-16:35 | 2B-4 | Targeting Androgen Receptor (AR) is Better than Targeting Androgens to Suppress Castration Resistant Prostate Cancer
Chawnschang Chang |
| 16:35-16:50 | 2B-5 | Androgen Receptor beyond Prostate Cancer: A New Player in Bone and Cartilage
Hong-Yo Kang |
| 16:50-17:00 | | Mini Break |



1C: Tumor Microenvironment in Cancer Progression and Metastasis

Chairpersons: Lu-Hai Wang / Hui-Wen Lo

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|-------------|------|--|
| 14:00-14:15 | 1C-1 | Targeting the Phenotypic Adaptation of Cancer Cells to Tumor Microenvironment. Challenges and Opportunities
Ching-Shih Chen |
| 14:15-14:30 | 1C-2 | Rab37-Mediated Exocytosis in Metastasis Suppression
Yi-Ching Wang |
| 14:30-14:45 | 1C-3 | Genetic, Hormones and Microenvironment in Breast Carcinogenesis
Eva Lee |
| 14:45-15:00 | 1C-4 | The Role of Dormancy in Promoting Breast Cancer Malignancy
Shiaw-Yih Lin |
| 15:00-15:15 | 1C-5 | Myeloid Cells in Inflammation and in Tumor Progression
Li-Rong Huang |
| 15:15-15:35 | | Coffee Break |

2C: Anticancer Drug Discovery: From Targeted Therapy to Cancer Metabolism

Chairpersons: Hsing-Pang Hsieh / Shao-Chun Wang

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|-------------|------|---|
| 15:35-15:50 | 2C-1 | Lead to Drug Candidate: DBPR114 as a Novel Multi-Targeted Kinase Inhibitor
Hsing-Pang Hsieh |
| 15:50-16:05 | 2C-2 | Targeting Hepatocellular Carcinoma in Mitosis through Shugoshin Inhibition
Lily Hui-Ching Wang |
| 16:05-16:20 | 2C-3 | Modulation of Aurora-A Expression by siRNA
Liang-Yi Hung |
| 16:20-16:35 | 2C-4 | Targeting Tumor Metabolism by Novel EGFR Inhibitor in Head and Neck Cancer
Ching-Chuan Kuo |
| 16:35-16:50 | 2C-5 | Compounds with More Selective Inhibitory Effect on Histone Deacetylase 6 Activity
Jing-Ping Liou |
| 16:50-17:00 | | Mini Break |



1D: Neural Development and Circuit

Chairpersons: Tzu-Yang Lin / Chih-Chiang Chan

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|-------------|------|--|
| 14:00-14:12 | 1D-1 | Regulation of NMDA Receptor Trafficking by Synaptic Scaffolding Protein SAP102
Bo-Shiun Chen |
| 14:12-14:24 | 1D-2 | The Role of Transcription Factor Lhx2 in Barrel Cortex Development
Shen-Ju Chou |
| 14:24-14:36 | 1D-3 | The Drosophila IR20a Clade of Ionotropic Receptors are Candidate Taste and Pheromone Receptors
Tong-Wey Koh |
| 14:36-14:48 | 1D-4 | Spindle-F Is the Central Mediator of I κ 2 Kinase-Dependent Dendrite Pruning in Drosophila Sensory Neurons
Hsiu-Hsiang Lee |
| 14:48-15:00 | 1D-5 | A New Member of BCL-2 Family in Developmental Neuronal Apoptosis
Pei-Hsin Huang |
| 15:00-15:12 | 1D-6 | Mapping of Second Order Chromatic Visual Circuits in Drosophila
Tzu-Yang Lin |
| 15:15-15:35 | | Coffee Break |



2D: Formation of Axons, Dendrites, Synapses and Circuits

Chairpersons: Cheng-Ting Chien / Hwai-Jong Cheng

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|-------------|------|---|
| 15:35-15:47 | 2D-1 | Integration of Small- and Large-Scale Axon Pruning in the Brain
Hwai-Jong Cheng |
| 15:47-15:59 | 2D-2 | Developmental Origin of Diverse Neuron Morphologies
Tzumin Lee |
| 15:59-16:11 | 2D-3 | Visual Cue-Specific Dopaminergic Control of Visuomotor Transformation and Behavior Selection
Jiulin Du |
| 16:11-16:23 | 2D-4 | Development and Maintenance of Axon/Dendrite Identity
Pei-Lin Cheng |
| 16:23-16:35 | 2D-5 | Glutamate Clearance by Astrocyte-Like Glia Ensures Proper Synaptic Growth by Limiting ROS/JNK/Autophagy and BMP Signals at the Drosophila Neuromuscular Junction
Chi-Kuang Yao |
| 16:35-16:47 | 2D-6 | Cyclin-Dependent Kinase Pathways Regulate Synapse Formation in Motor Neurons
Chan-Yen Ou |
| 16:50-17:00 | | Mini Break |



1E: Novel Molecular Mechanisms of Prostate Cancer Progression

Chairpersons: Jer-Tsong Hsieh / Wenliang Li

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|-------------|------|--|
| 14:00-14:12 | 1E-1 | The Impact of microRNA Biogenesis on Epithelial-to-Mesenchymal Transition in Prostate Cancer
Jer-Tsong Hsieh |
| 14:12-14:24 | 1E-2 | Activation of P-TEFb by Enhancer RNAs Associated with Lethal Prostate Cancer
Haojie Huang |
| 14:24-14:36 | 1E-3 | Agonist and Antagonist Switch DNA Motifs Recognized by Human Androgen Receptor in Prostate Cancer
Qianben Wang |
| 14:36-14:48 | 1E-4 | Novel Regulators of Cancer Metastasis: Epithelial-Mesenchymal Transition and Essential Kinases
Wenliang Li |
| 14:48-15:00 | 1E-5 | JMJD2 Inhibitors Block Prostate Tumor Growth by Suppressing the Expression of AR- and BMYB-Regulated Genes
Zhi-Ping Liu |
| 15:00-15:12 | 1E-6 | Suppression of POLD1 Induces Tumor Cell Mitotic Catastrophe, Apoptosis, Necroptosis and Senescence
Ray (Ruian) Xu |
| 15:15-15:35 | | Coffee Break |



2E: Effective and New Approaches for Cancer Prevention

Chairpersons: Chung S. Yang / Xiangwei Wu

- | | | |
|-------------|------|--|
| 15:35-15:50 | 2E-1 | Hepatitis B Vaccination: Disease and Cancer Prevention – A Taiwanese Experience
Mei-Hwei Chang |
| 15:50-16:05 | 2E-2 | Bcl-xL Promotes Metastasis Independent of its Anti-apoptotic Activity
Nancy Du |
| 16:05-16:20 | 2E-3 | Modulations of PPAR- δ Expression in Colonic Epithelial Cells Strongly Alter Susceptibility to Colon Cancer
Xiangsheng Zuo |
| 16:20-16:35 | 2E-4 | Developing a New Class of Anti-cancer Drugs for Breast Cancer Prevention and Treatment
Qiang Shen |
| 16:50-17:00 | | Mini Break |



1F: Epigenetics and Chromatin

Chairpersons: Kou-Juey Wu / Li-Jung Juan

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|-------------|------|--|
| 14:00-14:15 | 1F-1 | Establishment and Maintenance of Epigenetic Modifications
Bing Zhu |
| 14:15-14:30 | 1F-2 | Chromatin Higher-Order Structures and Epigenetic Regulation
Guohong Li |
| 14:30-14:45 | 1F-3 | HAUSP Regulates Hypoxia-Induced Gene Transcription through Deubiquitination of HIF-1 and Induction of Specific Chromatin Modification
Kou-Juey Wu |
| 14:45-15:00 | 1F-4 | Exploring the Non-Canonical Roles of EMT during Cancer Metastasis
Muh-Hwa Yang |
| 15:00-15:15 | 1F-5 | DNA Methylation Targeting in Development and Cancer
Li-Jung Juan |
| 15:15-15:35 | | Coffee Break |

2F: Biology of Aging

Chairpersons: Meng Wang / Weiwei Dang

- | | | |
|-------------|------|--|
| 15:35-15:50 | 2F-1 | A Novel Signaling Role of Lysosomal Metabolism in Regulation of Longevity
Meng Wang |
| 15:50-16:05 | 2F-2 | Histone Mutant Lifespan Screen Reveals That the H3K36me3 Promotes Longevity by Suppressing Intragenic Cryptic Transcription
Weiwei Dang |
| 16:05-16:20 | 2F-3 | Nuclear Lamin A in Epigenetic Regulation and Aging
Zhongjun Zhou |
| 16:20-16:35 | 2F-4 | Inhibition of Telomere Recombination by Inactivation of KEOPS Subunit Cgi121 Promotes Cell Longevity
Jin-Qiu Zhou |
| 16:35-16:50 | 2F-5 | Genetic Regulations of Longevity, Stress Response and Proteostasis in <i>C. Elegans</i>
Ao-Lin (Allen) Hsu |
| 16:50-17:00 | | Mini Break |



Keynote Lecture 2

Chairperson: Hsing-Jien Kung

- 08: 30-08: 35 Administrative Announcement
- 08: 35-09: 15 KL-2 Targeting Phosphoinositide 3-Kinase for Cancer Therapy
[Lewis Cantley \(Cornell Medical College and New York-Presbyterian Hospital, USA\)](#)

Tsai-Fan Yu Legacy Lecture

Chairperson: Hua Yu (City of Hope, USA)

- 09: 15-09: 50 DL-2 Taxol®, Tubulin and Tumors
[Susan B. Horwitz \(Albert Einstein College of Medicine, USA\)](#)
- 09: 50-10: 10 Coffee Break

Plenary Lecture 2

Chairpersons: Yun Yen (Taipei Medical University, Taiwan)

Hui Zheng (Baylor College of Medicine, USA)

- 10: 10-10: 35 PL2-1 Precision Therapy for Lung Cancer: Focus on East Asian Population
[Pan-Chyr Yang \(National Taiwan University, Taiwan\)](#)
- 10: 35-11: 00 PL2-2 Life at the Single Molecule Level: From Single Molecule Enzymology to Single Cell Genomics
[Sunney Xie \(Harvard University, USA\)](#)



The Journal Editors Session: How to Publish

Chairpersons: Xiang-Dong Fu (University of California, San Diego, USA) /

Gen-Sheng Feng (University of California, San Diego, USA)

11:00-12:45 ES [Wen-Chang Chang](#) (Editor-in-Chief, *Journal of Biochemical Science*)

[Angela Eggleston](#) (Senior Editor, *Nature*)

[Li-Kuo Su](#) (Editor, *Cancer Cell*)

[Valda Vinson](#) (Deputy Editor, *Research, Science*)

[Jie Wang](#) (Senior Scientific Editor, *Cell Research*)

12:45-13:30

Lunch (Lunch is served from 12:00-13:30)

4F, Recreation Hall, HSSB



3A: Metabolism and Epigenetics in Cancer

Chairpersons: David Ann / Wen-Ching Wang

- | | | |
|-------------|------|--|
| 13:30-13:45 | 3A-1 | Signaling and Targeting of Cancer Metabolism
Jing Chen |
| 13:45-14:00 | 3A-2 | Acetylation of MAT II α Represses Tumor Cell Growth and Is Decreased in Human Hepatocellular Cancer
Qun-Ying Lei |
| 14:00-14:15 | 3A-3 | A Novel Long-Coding RNA Connects C-Myc to Tumor Metabolism
Hsing-Jien Kung |
| 14:15-14:30 | 3A-4 | Mechanistic Insights into Mutation-Driven Restructuring-Allostery Relationship of Oncogenic PKM2
Wen-Ching Wang |
| 14:30-14:45 | 3A-5 | Non-Metabolic Functions of Metabolic Enzymes
Zhimin (James) Lu |
| 14:45-15:00 | | Coffee Break |



4A: New Insights into Tumor Angiogenesis and Metastasis

Chairpersons: Li Ma / Ruowen Ge

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|-------------|------|--|
| 15:00-15:12 | 4A-1 | Angiogenic Activity of a Cancer Associated Glycolipid, Globo H-Ceramide
Felix Hung |
| 15:12-15:24 | 4A-2 | The Secreted Antiangiogenic Protein ISTHMIN and Its Mechanism of Action
Ruowen Ge |
| 15:24-15:36 | 4A-3 | TNFSF15 Inhibits Vasculogenesis by Regulating Relative Levels of Membrane-Bound and Soluble Isoforms of VEGF Receptor-1
Luyuan Li |
| 15:36-15:48 | 4A-4 | Targeting the LIFR-Hippo-YAP Pathway as an Anti-Metastatic Strategy
Li Ma |
| 15:48-16:00 | 4A-5 | MicroRNA 148a Suppresses Breast Cancer Metastasis
Xiao-Fan Wang |
| 16:00-16:12 | 4A-6 | The Osteogenic Niche Promotes Early Stage Bone Colonization of Breast Cancer, and Links Bone Homeostasis to Micrometastasis Progression
Xiang Zhang |
| 16:15-16:30 | | Mini Break |



5A: DNA Damage Response: Mechanistic Implications in Cancer Development

Chairpersons: Guang Peng / Bing Xia

- | | | |
|-------------|------|--|
| 16:30-16:42 | 5A-1 | Promotion of BRCA2-dependent Homologous Recombination by DSS1 via RPA Targeting and DNA Mimicry
Patrick Sung |
| 16:42-16:54 | 5A-2 | The Human SRCAP Chromatin Remodeling Complex Promotes DNA-End Resection
Jun Huang |
| 16:54-17:06 | 5A-3 | α -N-Methylation of MRG15 Facilitates H3K36me3-H4K16Ac Crosstalk and ATM Activation through Chromatin Recruitment and Allosteric Regulation of TIP60
Yinsheng Wang |
| 17:06-17:18 | 5A-4 | UHRF1 Contributes to DNA Damage Repair as a Lesion Recognition Factor and Nuclease Scaffold
Lei Li |
| 17:18-17:30 | 5A-5 | Tales of Two RECQ Helicases in Genome Maintenance
Yilun Liu |
| 17:30-17:42 | 5A-6 | A Two-Step Tumorigenesis Initiated by Defects of Essential DNA Repair Genes
Zhiyuan Shen |
| 17:45-18:00 | | Mini Break |



3B: Cancer Stem Cells and Signaling in Cancer Development

Chairpersons: Jinsong Liu / Peng Huang

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|-------------|------|--|
| 13:30-13:42 | 3B-1 | Giant Cancer Stem Cells and Tumorigenesis
Jinsong Liu |
| 13:42-13:54 | 3B-2 | Acinar-to-Ductal Metaplasia: The First Step towards Pancreatic Cancer
Pei Wang |
| 13:54-14:06 | 3B-3 | Pdcd4: A Translation Inhibitor Suppresses Tumorigenesis
Hsin-Sheng Yang |
| 14:06-14:18 | 3B-4 | Kras ^{G12D} -Activated TAK1/IKK2/ β /NF- κ B Pathway is Required for the Development of Pancreatic Ductal Adenocarcinoma
Paul Chiao |
| 14:18-14:30 | 3B-5 | Cancer Metabolism and Stem Cell Phenotype: Role of Glucose
Peng Huang |
| 14:30-14:42 | 3B-6 | Targeting MDM2 Oncogene for Cancer Prevention and Therapy: A 20-Year Learning Curve
Ruiwen Zhang |
| 14:45-15:00 | | Coffee Break |



4B: Pin1 in Phosphorylation Signaling and Disease Treatment

Chairpersons: Kun Ping Lu / Pei-Jung Lu

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|-------------|------|--|
| 15:00-15:12 | 4B-1 | Pin1 Inhibitors Have Potent Anticancer Activity by Inhibiting Multiple Cancer-Driving Pathways
Xiao Zhen Zhou |
| 15:12-15:24 | 4B-2 | Role of Pin1 in Regulation of DNA Damage Response Functions of ATR
Yue Zou |
| 15:24-15:36 | 4B-3 | Pin1 Propyl Isomerase in the Cell Cycle and Tumorigenesis
Pei-Jung Lu |
| 15:36-15:48 | 4B-4 | Prolyl Isomerase Pin1 in Induced Pluripotent Stem Cells
Akihide Ryo |
| 15:48-16:00 | 4B-5 | Pin1 Functions in the Different Model Systems: Focusing on Pin1 at Functions in Plant Development
Yih-Cherng Liou |
| 16:00-16:12 | 4B-6 | Antibody against Early Pathogenic Tau Prion for Treating Traumatic Brain Injury and Alzheimer's Disease
Kun Ping Lu |
| 16:15-16:30 | | Mini Break |



5B: p53, DNA Repair, Metabolism, and Anticancer Intervention

Chairpersons: Moon-Shong Tang / Jian-Ting Zhang

- | | | |
|-------------|------|---|
| 16:30-16:42 | 5B-1 | Do We Really Know How p53 Suppresses Tumorigenesis?
Wei Gu |
| 16:42-16:54 | 5B-2 | Translating the Ribosomal Stress-p53 Pathway into Drug
Discovery
Hua Lu |
| 16:54-17:06 | 5B-3 | Translational Regulation of Nucleotide Excision Repair in Lung
Cancer Chemotherapy
Jiye Yin |
| 17:06-17:18 | 5B-4 | Regulation of Metabolism by Tumor Suppressor p53 and Its
Mutants in Cancer
Zhaohui Feng |
| 17:18-17:30 | 5B-5 | Regulation of DNA Damage Repair in Cancer Treatment by
Fatty Acid Synthase
Jian-Ting Zhang |
| 17:30-17:42 | 5B-6 | Repositioning Proton Pump Inhibitors as Anticancer Drugs by
Targeting the Thioesterase Domain of Human Fatty Acid
Synthase
Jing-Yuan Liu |
| 17:45-18:00 | | Mini Break |



3C: Regulation of Immune Responses

Chairpersons: Bing Su / Yun-Cai Liu

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|-------------|------|---|
| 13:30-13:42 | 3C-1 | VHL Controls Regulatory T cell Function by Regulating HIF-1 α -Mediated Interferon Gamma Production
Yun-Cai Liu |
| 13:42-13:54 | 3C-2 | mTOR and Metabolic Control of T cell Fate Decisions
Hongbo Chi |
| 13:54-14:06 | 3C-3 | Homeostasis and Selection of Long-Lived T Regulatory Cells in Aged Mice
Yuan Zhuang |
| 14:06-14:18 | 3C-4 | The ER-associated protein ZDHHC1 positively regulates DNA virus-triggered innate immune signaling
Yanyi Wang |
| 14:18-14:30 | 3C-5 | Understanding and Therapeutically Modulating the Balance of Human Treg and Th17 under Inflammation
Bin Li |
| 14:30-14:42 | 3C-6 | Sin1-mTORC2 signaling in lymphocytes
Bing Su |
| 14:45-15:00 | | Coffee Break |



4C: T cell Differentiation and Diseases

Chairpersons: Wanjun Chen / Nan-Ping Weng

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|-------------|------|---|
| 15:00-15:15 | 4C-1 | Regulatory T cell Differentiation
Wanjun Chen |
| 15:15-15:30 | 4C-2 | Mechanisms of CD8 T Cell Differentiation and Aging
Nan-ping Weng |
| 15:30-15:45 | 4C-3 | Therapeutics Targeting T cell Activation for Autoimmune Arthritis
Jenn-Haung Lai |
| 15:45-16:00 | 4C-4 | Development of Tolerogenic Vaccines against Inflammatory Diseases
Bin Wang |
| 16:15-16:30 | | Mini Break |

5C: Ubiquitin Signaling in Inflammation and Cancer

Chairpersons: Shao-Cong Sun / Hui-Kuan Lin

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|-------------|------|--|
| 16:30-16:45 | 5C-1 | Ubiquitination in the Regulation of T-cell Activation and Anti-tumor Immunity
Shao-Cong Sun |
| 16:45-17:00 | 5C-2 | Targeting Ubiquitination Pathways for Cancer Therapy
Hui-Kuan Lin |
| 17:00-17:15 | 5C-3 | p97 is a Master Regulator of the NF- κ B Signaling Pathway
Jianping Jin |
| 17:15-17:30 | 5C-4 | Cul3-KLHL20 Ubiquitin Ligase Controls Autophagy Termination
Ruey-Hwa Chen |
| 17:30-17:45 | 5C-5 | Cdh1 Regulates Tumorigenesis and Craniofacial Development via the WWP2/Goosecoid Signaling Axis
Wenyi Wei |
| 17:45-18:00 | | Mini Break |



3D: Cell Signaling and Alzheimer's Disease

Chairpersons: Yueming Li / Hui Zheng

- | | | |
|-------------|------|---|
| 13:30-13:45 | 3D-1 | Mechanisms of γ -Secretase
Yueming Li |
| 13:45-14:00 | 3D-2 | Centrioles, Cilia, and Signalling
Bryan Tsou |
| 14:00-14:15 | 3D-3 | Sensing Signaling Input by Autophagy Machinery
Xuejun Jiang |
| 14:15-14:30 | 3D-4 | Levels of NMNAT2 Link to Cognition and Pathology in
Proteinopathies
Hui-Chen Lu |
| 14:30-14:45 | 3D-5 | Clearance of Toxic Tau Proteins and Rescue of Neurotoxicity
by TFEB
Hui Zheng |
| 14:45-15:00 | | Coffee Break |



4D: Novel Anticancer Target Identification and Drug Discovery

Chairpersons: Xiaodong Cheng / Jie Wu

- | | | |
|-------------|------|--|
| 15:00-15:12 | 4D-1 | G-Protein Coupled Receptors and Targeted Anti-Cancer Drug Discovery
Mingyao Liu |
| 15:12-15:24 | 4D-2 | Development of Novel Anticancer Agents and Identification of Predictive Biomarkers for Precision Medicine against Cancer
Bingliang Fang |
| 15:24-15:36 | 4D-3 | Methionine S-Adenosyltransferase 2A (MAT2A) Inhibitors for Cancer Treatment
Chunming Liu |
| 15:36-15:48 | 4D-4 | Discovery and Development of Novel Mc1-1 Inhibitors for Cancer Treatment
Hong-Gang Wang |
| 15:48-16:00 | 4D-5 | Targeting the Endoplasmic Reticulum Stress Response in Cancer
Chih-Chi Andrew Hu |
| 16:00-16:12 | 4D-6 | Novel Technologies to Target STAT3: Transition into the Clinic
Hua Yu |
| 16:15-16:30 | | Mini Break |



5D: Cancer Microenvironment and Immunotherapy

Chairpersons: Rongfu Wang / Weiping Zou

- | | | |
|-------------|------|--|
| 16:30-16:45 | 5D-1 | Innate Immune Signaling and Cancer Immunotherapy
Rongfu Wang |
| 16:45-17:00 | 5D-2 | Epigenetic Regulation and Immune Responses in the Tumor Microenvironment
Weiping Zou |
| 17:00-17:15 | 5D-3 | The Function and Modifications of Regulatory Nod like Proteins in Innate Immune Signaling
Jun Cui |
| 17:15-17:30 | 5D-4 | CMTM4 Promotes Tumor Growth by Regulation of Inflammatory Responses in the Tumor Microenvironment
Shu-Hsia Chen |
| 17:30-17:45 | 5D-5 | HCC microenvironment
Limin Zheng |
| 17:45-18:00 | | Mini Break |



3E: Microbiome and Inflammation

Chairpersons: Shiu-Ming Kuo / Yijun Sun

- | | | |
|-------------|------|---|
| 13:30-13:45 | 3E-1 | Algorism and Application
Yijun Sun |
| 13:45-14:00 | 3E-2 | Airway Microbiome in Chronic Obstructive Pulmonary Disease
Sanjay Sethi |
| 14:00-14:15 | 3E-3 | Gut Microbiota Patterns in Infancy Potentially Predict the Development of Allergic Diseases
Yen-Hsuan Ni |
| 14:15-14:30 | 3E-4 | Intestinal Microbiome Dysbiosis and Epithelial Barrier Dysfunction
Linda Chia-Hui Yu |
| 14:30-14:45 | 3E-5 | Diet on Intestinal Microbiome and Inflammation
Shiu-Ming Kuo |
| 14:45-15:00 | | Coffee Break |

4E: Trichoderma and Their Applications in Biomass Degradation and Biocontrol

Chairpersons: Ting-Fang Wang / Zhi-Hua Zhou

- | | | |
|-------------|------|--|
| 15:00-15:15 | 4E-1 | Trichoderma Reesei Meiosis Generates Segmentally Aneuploid Progeny with Higher Xylanase-Producing Capability
Ting-Fang Wang |
| 15:15-15:30 | 4E-2 | The Strain Improvement of Trichoderma reesei Based on a CRISPR/Cas9 System
Zhi-Hua Zhou |
| 15:30-15:45 | 4E-3 | The Hemicellulose System of Trichoderma reesei with Emphasis on Carbohydrate Esterases
Xin-Liang Li |
| 15:45-16:00 | 4E-4 | Regulation of Cellulase Gene Expression in Trichoderma Reesei
WeiFeng Liu |
| 16:00-16:15 | 4E-5 | Anthraquinones being Trichoderma Biocontrol Molecules
Kou-Cheng Peng |
| 16:15-16:30 | | Mini Break |



5E: Proteins and Peptides in Drug Delivery

Chairpersons: Wei-Chiang Shen / Jeffrey Wang

- | | | |
|-------------|------|---|
| 16:30-16:45 | 5E-1 | Recombinant Proinsulin-Transferrin Fusion Protein for Liver-Targeted Insulin Therapy
Wei-Chiang Shen |
| 16:45-17:00 | 5E-2 | Lipid Conjugates for Peptide Drug Delivery
Jeffrey Wang |
| 17:00-17:15 | 5E-3 | Heparin-Binding Hemagglutinin Adhesion Peptide for Protein Drug Delivery
Li-Jiuan Shen |
| 17:15-17:30 | 5E-4 | Strategic Approaches for Designing Drug Delivery Systems for Polypeptide and Protein
Jiasheng Tu |
| 17:30-17:45 | 5E-5 | Design of Drug Delivery System using Peptides
Xiaoling Li |
| 17:45-18:00 | | Mini Break |



3F: Hedgehog Signaling in Development and Disease

Chairpersons: Steven Y Cheng / Chi-Chung Hui

- | | | |
|-------------|------|---|
| 13:30-13:45 | 3F-1 | Activation of Hedgehog Signaling by Loss of GNAS Causes Heterotopic Ossification
Yingzi Yang |
| 13:45-14:00 | 3F-2 | Role of Indian Hedgehog in Development and Pathogenesis of Digit Joint Formation
Danny Chan |
| 14:00-14:15 | 3F-3 | Decoding the Phosphorylation Code in Hedgehog Signal Transduction
Jin Jiang |
| 14:15-14:30 | 3F-4 | Mechanism of Mammalian Hedgehog Signaling Downstream of the Primary Cilium
Pao-Tien Chuang |
| 14:30-14:45 | 3F-5 | Smurfs and Endocytosis in Sonic Hedgehog Signal Reception
Steven Y. Cheng |
| 14:45-15:00 | | Coffee Break |

4F: Immunology and Inflammation

Chairpersons: Tse-Hua Tan / Fu-Tong Liu

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|-------------|------|--|
| 15:00-15:15 | 4F-1 | Galectins and Innate Immunity
Fu-Tong Liu |
| 15:15-15:30 | 4F-2 | Inability to Resolve Specific Infection and Persistent Inflammation in Xiap ^{-/-} Mice
Ming-Zong Lai |
| 15:30-15:45 | 4F-3 | HGK/MAP4K4 Deficiency Induces TRAF2 Stabilization and Th17 Differentiation Leading to Insulin Resistance
Huai-Chia Chuang |
| 15:45-16:00 | 4F-4 | STAT1 Regulates Marginal Zone B Cells Differentiation during Blood-Borne Bacterial Infection
Chien-Kuo Lee |
| 16:00-16:15 | 4F-5 | Emerging Roles of TAPE Innate Immune Regulator in Toll-Like Receptors, RIG-I-Like Receptors, and Beyond
Pin Ling |
| 16:15-16:30 | | Mini Break |



5F: Genome Maintenance

Chairpersons: Junjie Chen / Zhenkun Lou

- | | | |
|-------------|------|--|
| 16:30-16:45 | 5F-1 | Phosphorylation of Ku Plays a Role in DNA Double-Strand Break Repair Pathway Choice
David Chen |
| 16:45-17:00 | 5F-2 | DNA Damage Response and BRCA1 Signaling
Bin Wang |
| 17:00-17:15 | 5F-3 | Telomere Signaling Networks in Aging and Cancer
Zhou Songyang |
| 17:15-17:30 | 5F-4 | Nature's Imitation Game: Decipher the Combinatorial CTD Code for Eukaryotic Transcription
Yan Jesse Zhang |
| 17:30-17:45 | 5F-5 | Centromeric Noncoding Transcription during Mitosis Coordinates Chromosome Segregation
Hongtao Yu |
| 17:45-18:00 | | Mini Break |



Career Development in Academy

Chairpersons: Mien-Chie Hung (The University of Texas MD Anderson Cancer Center, USA) / Yang Shi (Harvard Medical School, USA)

18:00-19:30 WS-3

Panelists:

Junjie Chen (The University of Texas MD Anderson Cancer Center, USA)

Louise Chow (University of Alabama at Birmingham, USA)

Chuxia Deng (University of Macau, China)

Xin-Hua Feng (Zhejiang University, China)

Eva Lee (University of California, Irvine, USA)

Zhou Songyang (Sun Yat-Sen University, China)

Xifeng Wu (The University of Texas MD Anderson Cancer Center, USA)



Funding, Training and Knowledge-Based Resources

Chairpersons: Chris Lau (University of California, San Francisco, USA) /

TC Wu (John Hopkins University, USA)

18:00–19:30 WS-4

Funding Opportunities at NIH

[Roy Wu](#) (National Institute of Health/ National Cancer Institute, USA)



SCBA Award lectures

Chairpersons: Xiao-Fan Wang (Duke University School of Medicine, USA)

Chuxia Deng (University of Macau, China)

08:30-08:35 Administrative Announcement

Presidential Award Lecture

Introduction: Dihua Yu, SCBA President (The University of Texas MD Anderson Cancer Center, USA)

08:35-09:10 AL-1 V(D)J Recombination and RAG1-RAG2 Protein
[Wei Yang \(National Institutes of Health, USA\)](#)

Lifetime Achievement Award Lecture

09:10-09:20 AL-2 [Horace Loh \(University of Minnesota, USA\)](#)

Young Investigator Award Lecture

09:20-09:40 AL-3-1 Neural Stem Cells in the Adult Mammalian Brain
[Hongjun Song \(Johns Hopkins University\)](#)

09:40-10:00 AL-3-2 Structural and Mechanistic Investigation of the Human Glucose Transporters GLUTs
[Nieng Yan \(Tsinghua University, China\)](#)

10:00-10:20 Coffee Break



KT Jeang Memorial Lecture

Chairperson: TC Wu (John Hopkins University, USA)

10:20-10:50 DL-3 Merkel Cell Polyomavirus: A New View of Cancer Viruses in the Age of Genomics
[Yuan Chang \(University of Pittsburgh Cancer Institute, USA\)](#)

Plenary Lecture 3

Chairpersons: Hui Zheng (Baylor College of Medicine, USA)

Chris Lau (University of California, San Francisco, USA)

10:50-11:15 PL3-1 Chromatin Remodeling, DNA Breaks, and Activity-Induced Gene Expression in Neurons
[Li-Huei Tsai \(University of California, Berkeley, USA\)](#)

11:15-11:40 PL3-2 Perspectives on Anti-PD-L1/PD-1 Therapy for Advanced Human Cancers
[Liping Chen \(Yale University School of Medicine, USA\)](#)

Lunch / Poster Session II

11:40-13:30 Poster Session II - Even number (11:50-13:20)
4F Corridor, HSSB



6A: Regulation of Energy Metabolism in Human Disease

Chairpersons: Boyi Gan / Xiaoyong Yang

- | | | |
|-------------|------|---|
| 13:30-13:45 | 6A-1 | ERR α and ERR γ are Essential Coordinators of Cardiac Metabolism and Function
Liming Pei |
| 13:45-14:00 | 6A-2 | A microRNA-Mediated Feed Forward Loop of the Hippo Pathway for Tumorigenesis and Size Control
Bin Zhao |
| 14:00-14:15 | 6A-3 | O-GlcNAc Signaling in Central Control of Energy Homeostasis
Xiaoyong Yang |
| 14:15-14:30 | 6A-4 | Nutrient Sensing and Energy Metabolism at the Crossroad between Cancer and Metabolic Diseases
Boyi Gan |
| 14:30-14:45 | 6A-5 | Kras-Driven Metabolism Vulnerability in Pancreatic Cancer
Haoqiang Ying |
| 14:45-15:00 | | Coffee Break |

7A: Nuclear Receptor-Mediated Signaling in Liver Cancer

Chairpersons: Yu-Jui Yvonne Wan / John YL Chiang

- | | | |
|-------------|------|---|
| 15:00-15:15 | 7A-1 | miR-22-Silenced CCNA2 is Regulated by Bile Acid Receptor FXR
Yu-Jui Yvonne Wan |
| 15:15-15:30 | 7A-2 | Deciphering the Anti-Oncogenic Roles of Pro-Oncogenic Molecules in Liver Cancer
Gen-Sheng Feng |
| 15:30-15:45 | 7A-3 | Nongenomic Activation of PI3K/AKT Signaling by RXR and Its Regulation in Liver Cancer
Xiao-Kun Zhang |
| 16:45-16:00 | 7A-4 | Novel Roles of the Cellular Trafficking Receptor Sortilin 1 in the Pathogenesis of Diabetic Dyslipidemia
Tiangang Li |
| 16:15-16:30 | | Mini Break |



8A: The Rhythm of Metabolism, and Mitochondria's Struggle between Power and Age

Chairpersons: Yuxiang Sun / Chaodong Wu

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|-------------|------|---|
| 16:30-16:45 | 8A-1 | CGI-58, Intracellular Lipolysis and Metabolic Diseases
Liqing Yu |
| 16:45-17:00 | 8A-2 | Circadian Clock Dysregulation Links Inflammation and Insulin Resistance in Obesity
Chaodong Wu |
| 17:00-17:15 | 8A-3 | Diurnal Regulation of Mitochondrial Dynamics in Hepatic Feeding Response
Chih-Hao Lee |
| 17:15-17:30 | 8A-4 | Pathological Cardiolipin Remodeling Links Mitochondrial Dysfunction to Ageing-Related Metabolic Diseases
Yuguang (Roger) Shi |
| 17:30-17:45 | 8A-5 | Ghrelin Signaling Controls the "Yin-Yang" Balance of White and Brown Fat during Aging
Yuxiang Sun |



6B: RNA Helicase and RNA Binding Proteins: From Biochemistry to Disease

Chairpersons: Woan-Yuh Tarn / Yongzhen Xu

- | | | |
|-------------|------|--|
| 13:30-13:45 | 6B-1 | The Function of DEAD-box ATPase Prp5 in Prespliceosome Formation
Soo-Chene Cheng |
| 13:45-14:00 | 6B-2 | Modulation of Splicing Fidelity by RNA Helicases/ATPases
Yongzhen Xu |
| 14:00-14:15 | 6B-3 | The RNA-Binding Protein Rbp1p Cooperates with Specific Regulatory Factors to Mediate Distinct mRNA Decay
Fang-Jen Lee |
| 14:15-14:30 | 6B-4 | Translational Control of Viruses
Shin-Ru Shih |
| 14:30-14:45 | 6B-5 | DDX3 Modulates Cell Cycle Progression and Cancer Metastasis via its Role in Translational Control
Woan-Yuh Tarn |
| 14:45-15:00 | | Coffee Break |

7B: MAO A Dysregulation and Related Disease

Chairpersons: Jean C. Shih / Jackson Chieh-Hsi Wu

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|-------------|------|--|
| 15:00-15:15 | 7B-1 | Potential Application of Monoamine Oxidase Inhibitors in the Prevention of Restenosis
Jackson Chieh-Hsi Wu |
| 15:15-15:30 | 7B-2 | Loss of MAOA in Prostate Epithelium Delays Carcinogenesis in a Mouse Model of Prostate Cancer
William Chun-Peng Liao |
| 15:30-15:45 | 7B-3 | Autoantibody Profiling of MAO-A KO Mice Using Human Proteome Microarrays-In Search of Biomarkers for ASD
Jason Chien-Sheng Chen |
| 15:45-16:00 | 7B-4 | Monoamine Oxidase A Mediates the Growth of Hodgkin's Lymphoma
Jami Pei-Chuan Li |
| 16:00-16:15 | 7B-5 | MAO A Mediates Neuroendocrine Differentiation and Autophagy Activation of Relapsed Prostate Cancer
Pei-Ching Chang |
| 16:15-16:30 | | Mini Break |



8B: The Symphony of Metabolic Organs: From the Brain to the Periphery

Chairpersons: Yong Xu / Feng Liu

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|-------------|------|---|
| 16:30-16:42 | 8B-1 | Novel Neurocircuits of Feeding and Related Behaviours
Qingchun Tong |
| 16:42-16:54 | 8B-2 | Body Weight Control via BDNF-Expressing Neurons in the Paraventricular Hypothalamus
Baoji Xu |
| 16:54-17:06 | 8B-3 | Hypothalamic Basis of Metabolic Syndrome
Dongsheng Cai |
| 17:06-17:18 | 8B-4 | Regulation of Adiponectin Signaling
Lily Dong |
| 17:18-17:30 | 8B-5 | The Inhibitory Role of mTORC1 Signaling in the Development of Beige Fat
Meilian Liu |
| 17:30-17:42 | 8B-6 | The Role of Perivascular Adipose Tissue in Atherosclerosis and Hypertension
Y. Eugene Chen |



6C: Chromatin and Genome Maintenance

Chairpersons: Cheng-Ming Chiang / Sheau-Yann Shieh

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|-------------|------|---|
| 13:30-13:45 | 6C-1 | Guarding the Stemness Loci Oct4 and Nanog in ESC and Pax6 Regulation in Neuronal Differentiation
Li-Na Wei |
| 13:45-14:00 | 6C-2 | Ribonucleotide Reductase Promotes dUTP-Mediated Genome Instability in Tumor Progression
Zee-Fen Chang |
| 14:00-14:15 | 6C-3 | Autophagy Induction Causes a Synthetic Lethal Sensitization to Ribonucleotide Reductase Inhibitor in Breast Cancer Cells
David Ann |
| 14:15-14:30 | 6C-4 | BTG3 in Checkpoint Maintenance and Tumor Suppression
Sheau-Yann Shieh |
| 14:30-14:45 | 6C-5 | BRD4 in Chromatin Dynamics and Cancer Therapeutics
Cheng-Ming Chiang |
| 14:45-15:00 | | Coffee Break |

7C: Genetic and Genomic Approaches for the Study of Sexual Development

Chairpersons: Humphrey Hung-Chang Yao / Zhibing Zhang

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|-------------|------|---|
| 15:00-15:15 | 7C-1 | Gli-Similar 3 is a Master Regulator of Retrotransposon Silencing in Male Fetal Germ Cells
Humphrey Hung-Chang Yao |
| 15:15-15:30 | 7C-2 | Dissecting the Structural Basis of MEIG1 Interaction with PACRG and the Regulation of Spermiogenesis
Zhibing Zhang |
| 15:30-15:45 | 7C-3 | MED13 Regulates Expression of Chromatin Modifying Proteins during Embryonic Genome Activation
Yi-Liang Miao |
| 15:45-16:00 | 7C-4 | Investigating Mammalian Cortical Granule Biology Using Ovastacin, a Pioneer Zn ²⁺ Metalloendopeptase
Bo Xiang |
| 16:00-16:15 | 7C-5 | Abnormal Development of Distal Reproductive Tracts in Lhfpl2-Mutant Mice
Xiaoqin Ye |
| 16:15-16:30 | | Mini Break |



8C: New Development in Structure Biology

Chairpersons: Wah Chiu / Hong Zhou

- | | | |
|-------------|------|---|
| 16:30-16:45 | 8C-1 | Atomic Structure of the Type Six Secretion System
Hong Zhou |
| 16:45-17:00 | 8C-2 | Gamma Secretase cryoEM Structure
Xiaochen Bai |
| 17:00-17:15 | 8C-3 | TRP1 Channel cryoEM Structure
Yifan Cheng |
| 17:15-17:30 | 8C-4 | Structure of the IP3R1 Channel Determined by Cryo-EM
Irina Serysheva |
| 17:30-17:45 | 8C-5 | Subnanometer Structure of the AcrABZ-TolC Multidrug Efflux Pump with Puromycin
Zhao Wang |

**6D: iPSC-Based Modeling of Neurodevelopment and Diseases**

Chairpersons: Yanhong Shi / Guo-Li Ming

- | | | |
|-------------|------|--|
| 13:30-13:45 | 6D-1 | Neural Stem Cells and Their Niches for Neuroregeneration
Ing-Ming Chiu |
| 13:45-14:00 | 6D-2 | Human iPSC-Based Modelling of Neurological Diseases
Yanhong Shi |
| 14:00-14:15 | 6D-3 | Function of Risk Genes for Mental Disorders in Neural Development
Guo-Li Ming |
| 14:15-14:30 | 6D-4 | Modeling Alzheimer's Disease and Drug Screening Using iPSC-Derived Neurons
Yadong Huang |
| 14:30-14:45 | 6D-5 | Synapse Formation, Plasticity, and Brain Disorders
Lin Mei |
| 14:45-15:00 | | Coffee Break |

7D: TGF-Beta Signaling in Stem Cell and Cancer

Chairpersons: Ying E. Zhang / Xiao-Jing Wang

- | | | |
|-------------|------|---|
| 15:00-15:15 | 7D-1 | Smurf Ubiquitin Ligases Regulate Embryonic Development through TGF-Beta Pathway
Ying E Zhang |
| 15:15-15:30 | 7D-2 | Internalization Routes of TGF- β Receptors
Ye-Guang Chen |
| 15:30-15:45 | 7D-3 | TGF β Regulation in Human Pluripotent Stem Cells
Guokai Chen |
| 15:45-16:00 | 7D-4 | Therapeutic Strategies of Eradicating Cancer Stem Cells in Skin and Oral Cancer
Xiao-Jing Wang |
| 16:00-16:15 | 7D-5 | Mechanisms of Myeloid TGF β Signaling in Cancer Metastasis
Li Yang |
| 16:15-16:30 | | Mini Break |



8D: Emerging Viral Diseases

Chairpersons: Jen-Ren Wang / Charles Wood

- | | | |
|-------------|------|---|
| 16:30-16:45 | 8D-1 | From Studies on Nipah Virus and Hendra Virus Entry to an Effective Human Monoclonal Antibody Therapy and Commercialized Vaccine
Christopher Broder |
| 16:45-17:00 | 8D-2 | Emerging Coronaviruses: Lesson from OC43, SARS to MERS
Susanna Lau |
| 17:00-17:15 | 8D-3 | Innate Immunity Evasion by Enteroviruses: A Key Aspect for Viral Pathogenesis
Jianwei Wang |
| 17:15-17:30 | 8D-4 | Molecular Determinants of Human Infections by Avian Influenza A Virus
Shin-Ru Shih |
| 17:30-17:45 | 8D-5 | Host MicroRNAs: Biomarkers of HPV Infections and Regulators of HPV Gene Expression
Thomas Zhi-Ming Zheng |



6E: New Roles for Thyroid Hormone in Metabolic Regulation and Diseases

Chairpersons: Jiemin Wong / Victoria Hsia

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|-------------|------|--|
| 13:30-13:45 | 6E-1 | miR-133a1 Mediates Thyroid Hormone Action on the Metabolic Phenotype of Skeletal Muscle
Hao Ying |
| 13:45-14:00 | 6E-2 | Thyroid Hormone Stimulates Hepatic Lipid Catabolism via Activation of Autophagy
Paul Yen |
| 14:00-14:15 | 6E-3 | Effects of Thyroid Hormone on HSV-1 Replication and Gene Expression in Neuronal Cells during Latency and Reactivation
Victor Hsia |
| 14:15-14:30 | 6E-4 | Thyroid Hormone-Activated DAPK2 Suppresses Hepatocarcinogenesis through Autophagy
Kwang-Huei Lin |
| 14:45-15:00 | | Coffee Break |

7E: Frontiers in Functional Exploration of GLP-1 and GLP-1 Based Drugs in Diabetes and Obesity Treatment and Prevention

Chairpersons: Tianru Jin / Jianping Weng

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|-------------|------|---|
| 15:00-15:15 | 7E-1 | Mechanisms Underlying the Repressive Effect of Glp-1 on Hepatic Gluconeogenesis
Tianru Jin |
| 15:15-15:30 | 7E-2 | GLP-1R agonist Improves Obesity by Browning in WAT through Activating SIRT1
Jianping Weng |
| 15:30-15:45 | 7E-3 | GLP-1 versus Leptin in RYGB Bariatric Bypass Surgery
Jingping Ye |
| 15:45-16:00 | 7E-4 | GLP-1 Fusion Protein as Potent Long Acting GLP-1 Receptor Agonist
Qinghua Wang |
| 16:00-16:15 | 7E-5 | The Role of GLP Post-Receptor Signal, PI3K/AKT in Beta-Cell Regeneration
Bangyan Stiles |
| 16:15-16:30 | | Mini Break |



8E: Cardiovascular Development, Regeneration and Disease

Chairpersons: Li Chen / Zhe Zheng

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|-------------|------|---|
| 16:30-16:45 | 8E-1 | Non-Coding RNAs, New Players in the Heart
Da-Zhi Wang |
| 16:45-17:00 | 8E-2 | Exosomal MiRNA as Potential Biomarker of Cardiovascular Diseases
Zhe Zheng |
| 17:00-17:15 | 8E-3 | The Role of Tbx20 in Regulating Cardiomyocyte Excitability via Cardiac Voltage-gated Sodium Channel Nav1.5.
Weinian Shou |
| 17:15-17:30 | 8E-4 | Zebrafish Heart Regeneration
Jingwei Xiong |
| 17:30-17:45 | 8E-5 | PTEN-PDK1-Akt Signaling is Critical for Second Heart Field Development
Zhongzhou Yang |



6F: Heart Development and Diseases

Chairpersons: Sophia Tsai / Ching-Pin Chang

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|-------------|------|---|
| 13:30-13:45 | 6F-1 | Epigenetics and LncRNA Mechanims of Heart Disease
Ching-Pin Chang |
| 13:45-14:00 | 6F-2 | CELF1 Regulates Connexin43 mRNA Degradation in Dilated Cardiomyopathy
Guey-Shin Wang |
| 14:00-14:15 | 6F-3 | FRS2-Mediated FGF Signals in Heart Outflow Tract Development
Fen Wang |
| 14:15-14:30 | 6F-4 | Endocardial Roles in Heart Development and Disease
Bin Zhou |
| 14:30-14:45 | 6F-5 | Cardiac Regeneration and Rejuvenation by Endogenous Stem Cells
Patrick C.H. Hsieh |
| 14:45-15:00 | | Coffee Break |

7F: DNA Replication and Genome Stability Research in China

Chairpersons: Xingzhi Xu / Daochun Kong

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|-------------|------|---|
| 15:00-15:15 | 7F-1 | Ubiquitination of CLASPIN Regulates Replication Stress-Induced CHK1 Activation
Xingzhi Xu |
| 15:15-15:30 | 7F-2 | The Initiation of Chromosomal DNA Replication in Eukaryotes: A Conserved Biological Event is not Really Conserved from Budding Yeast to Fission Yeast and Human Cells
Daochun Kong |
| 15:30-15:45 | 7F-3 | A Role of Histone Chaperone FACT in Replication-Coupled Nucleosome Assembly
Qing Li |
| 15:45-16:00 | 7F-4 | Histone Methylation and DNA Replication Control
Huadong Pei |
| 16:00-16:15 | 7F-5 | Sister Chromatid Cohesion Establishment during S Phase
Huiqiang Lou |
| 16:15-16:30 | | Mini Break |



8F: Genomic Stability

Chairpersons: Guo-Min Li / Lee Zou

- | | | |
|-------------|------|---|
| 16:30-16:45 | 8F-1 | DNA Damage During the G0/G1 Phase Triggers RNA-Templated, Cockayne Syndrome B-Dependent Homologous Recombination
Li Lan |
| 16:45-17:00 | 8F-2 | Aflatoxin B1 Hepatocarcinogenesis via Lipid Peroxidation Inducing Cyclic Propano-DNA Adduct at p53 Codon 249, Inhibiting DNA Repair and Enhancing Mutation Susceptibility
Hsiang-Tsui (Mandy) Wang |
| 17:00-17:15 | 8F-3 | DNA-PKcs and ATM – The Importance of Self-Discipline
Shan Zha |
| 17:15-17:30 | 8F-4 | Role of Human Papillomavirus Oncoprotein in Altering the Histone Methylation Level
Feng Li |
| 17:30-17:45 | 8F-5 | Mechanisms and Regulation of DNA and RNA Surveillance
Zhongsheng You |



6G: Frontier in Leukemia Therapy

Chairpersons: Paul Liu / Yang Liu

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|-------------|------|--|
| 13:30-13:45 | 6G-1 | Deciphering the Role of Large Chromosome Deletions in Hematological Malignancies
Chong Chen |
| 13:45-14:00 | 6G-2 | Negative Feedback–Defective PRPS1 Mutants Drive Thiopurine Resistance in Relapsed Childhood ALL
Bin-Bing Zhou |
| 14:00-14:15 | 6G-3 | TSC-mTOR Signaling in miRNA Biogenesis
Pan Zheng |
| 14:15-14:30 | 6G-4 | Functional and Translational Studies of CBF Leukemia
Paul Liu |
| 14:30-14:45 | 6G-5 | AML Therapy Targeting Leukemia Stem Cells
Yang Liu |
| 14:45-15:00 | | Coffee Break |



7G: Oncogenic Viruses

Chairpersons: James Ou / Chou-Zen Joe Giam

- | | | |
|-------------|------|--|
| 15:00-15:12 | 7G-1 | Hepatitis B Virus Assembly: From Basic Research to Novel Diagnostics
Jianming Hu |
| 15:12-15:24 | 7G-2 | Pathogenesis and Therapeutic Implications for Androgen Pathway in HBV-Induced Liver Cancers
Shiou-Hwei Yeh |
| 15:24-15:36 | 7G-3 | Polyomavirus, DNA Damage Response, and Genome Instability
Mengxi Jiang |
| 15:36-15:48 | 7G-4 | LKB1 Inhibits HPV-facilitated Cancer Progression by Targeting Cellular Metabolism
Zhi-Xiang Xu |
| 15:48-16:00 | 7G-5 | Organotypic Epithelial Cultures as a Platform to Develop Therapeutic Strategies for Treating Human Papillomavirus Lesions
Louise Chow |
| 16:00-16:12 | 7G-6 | Retroviral Oncoprotein Tax-Induced Activation of LKB1-SIK and SIRT1 Signaling in the Regulation of HTLV-1 Transcription
Dong-Yan Jin |
| 16:15-16:30 | | Mini Break |



8G: Translating Research Discovery to Technology or Therapeutics Product

Chairpersons: Jing-Shan Jennifer Hu / James Huang

- | | | |
|-------------|------|---|
| 16:30-16:40 | 8G-1 | From Academic Research to Drug Discovery/Development
Dajun Yang, President & CEO, Ascentage Pharma |
| 16:40-16:50 | 8G-2 | Earlier Stage Industry-Academia Partnering for Drug Discovery
Jennifer Hu, Vice President, Bayer HealthCare |
| 16:50-17:00 | 8G-3 | Later Stage Partnering with Multinational Pharma for Drug Development
Ji Li, Vice President, Business Development & Licensing, Merck Research Laboratories |
| 17:00-17:10 | 8G-3 | What are the VCs Looking for to Fund a Biotech Company and What it Takes to Succeed
James Huang, Managing Partner, Kleiner Perkins Caufield Byers (KPCB) China |
| 17:10-17:45 | | Panel Discussion and Q&A |



Keynote Lecture 3

Chairperson: Dihua Yu (The University of Texas MD Anderson Cancer Center, USA)

09:00-09:10 Administrative Announcement
Door Prize Drawing #1

09:10-09:50 KL-3 Telomeres in Cancer and Aging
[Ronald DePinho \(MD Anderson Cancer Center, USA\)](#)

Tang Prize Lectureship

Chairperson: Wen-Chang Chang (Journal of Biochemical Science, USA)

09:50-10:20 DL-4 Cancer Immunotherapy by PD-1 Blockade
[Tasuku Honjo \(Kyoto University; Shizuoka Prefectural University Corporation, Japan\)](#)

10:20-10:40 Coffee Break

Plenary Lecture 4

Chairpersons: Mien-Chie Hung (The University of Texas MD Anderson Cancer Center, USA)
Yang Shi (Harvard Medical School, USA)

10:40-11:05 PL4-1 Prevention of Liver Cancer through Control of Chronic Hepatitis B: From Epidemiology to Public Health Programs
[Chien-Jen Chen \(Academia Sinica, Taiwan\)](#)

11:05-11:30 PL4-2 Neural Plasticity-Based Therapy of Brain Disorders
[Mu-Ming Poo \(University of California, Berkeley, USA\)](#)

Award Announcement & Closing Ceremony

11:30-12:00 Award Announcement (by Gen-Sheng Feng / Hui Zheng)
Door Prize Drawing #2 (by Chris Lau / TC Wu)

12:00-12:10 Closing Ceremony
[Dihua Yu \(President, SCBA\)](#)
[Yang Shi \(President-Elect, SCBA, 2016-2017\)](#)

12:10- Lunch

PA: Biotech and Biopharm

- PA01 Synthesis and Immunological Properties of Chemical Modifications of Globo H antigen as Cancer Vaccines
[Hsin-Yu Lee](#), Chien-Yu Chen, Tsung-I Tsai, Shiou-Ting Li, Kun-Hsien Lin, Yang-Yu Cheng, Chien-Tai Ren, Ting-Jen R. Cheng, Chung-Yi Wu, Chi-Huey Wong
- PA02 Hepatotoxicity Induced by Extract of Polygoni Multiflori Radix in Rats with Cyp1A2 or Cyp2E1 Inhibited
[Jing Chen](#), Zhenzhen Ge, [Zhenxiao Sun](#)
- PA03 Herbal Medicine as a Novel Veterinary Remedy for Coccidiosis in Chickens
[Meng-Ting Yang](#), Cicero L.T. Chan, Wen-Chin Yang
- PA04 Characterization of a Rhamnose Binding Lectin from Horseshoe Crab Tachypleus Tridentatus
[Sim Kun Ng](#), Yuan-Chuan Lee, Yi-En Chen, Tse-Kai Fu, Margaret Dah-Tsyr Chang
- PA05 A Facile Method for the Synthesis of Biocompatible Metal Nanocrystals and their Potential Application
[Cheng Ping Chou](#), Chih-Wei Chou, W.P. Hsu
- PA06 Zinc-Dipicolylamine Directed Pharmaceutical Delivery System (ZAPS) as an Innovative Cancer Drug Delivery Platform
[Yun-Yu Chen](#), Lun K. Tsou, Mu-Tzu Chang, Kai-Yen Chang, Ching-Ping Chen, Chen-Lung Huang, Yu-Wei Liu, Chen-Fu Lo, Teng-Kuang Yeh, Chien-Huang Wu, Kak-Shan Shia, Joe C. Shih, Brian D. Gray, Koon Y. Pak, Chiung-Tong Chen
- PA07 Therapeutic Application of Light Chain-Bridged Single Chain Anti-Her2/anti-CD3 Bi-Specific Antibody for Her2+ Tumors
[Jei-Hwa Yu](#), Show-Shan Shen, Cheng-Kai Lo, Yen-His Yeh, Lin-June Hsiao, Yen-Ling Huang, Su-Yi Hsu, Yuan-Hsin Lu, Chen-Ju Lin, Yin-Yao Lin, Yu-Chen Yang, Yu-Shen Hsu, Chung-Hsiun Wu, Ta-Tung Yuan
- PA08 A Novel PAMP Binding Domain from Hemolymph Plasma Lectin
[Tse-Kai Fu](#), Sim-Kun Ng, Yi-En Chen, Jun-Hao Fu, Yuan-Chuan Lee, Margaret Dah-Tsyr Chang.

PA: Biotech and Biopharm

- PA09 A Novel Strategy for Producing Antibody Comprising of Mono-N-Acetyl Glucosamine by Cells
[Chengchou Yu](#), Ching-Yao Chen, Meng-Sheng Lee, Chun-Chung Lee
- PA10 IGF-Integrin Crosstalk through Direct IGF-Binding to Integrins: Development of IGF1 Antagonist (IGF1-Decoy)
[Yoshikazu Takada](#), Masaaki Fujita, Yoko K Takada
- PA11 Interaction between Cell-Penetrating Peptides and Acid-Sensitive Anionic Oligopeptides for the Design of Targeted Drug Carriers
[Chunmeng Sun](#), Wei-Chiang Shen, Jiasheng Tu, Jennica L. Zaro
- PA12 The Effects of Glyco-Shortenings Anti-CD52 on PBMC and Their Anti-Inflammatory Functions
[Cheng-Chou Yu](#), Ching-Yao Chen, Meng-Sheng Lee, Mei-Chi Chan, [Chun-Chung Lee](#)
- PA13 The Elucidation of Isochaihulactone-Targeted Protein, GAPDH, Highlights a Nuclear GAPDH-Mediated Cell Death in Human LNCaP Prostate Cancer Cells
[Jeffy Chern](#), Zhanxiong Fang, Kuo-Feng Hua, Yi-Lin Sophia Chen, Chun-Ping Lu, Yulin Lam, Shih-Hsiung Wu

PB: Cancer Research

- PB02 A microRNA-Mediated Feed Forward Loop of the Hippo Pathway for Tumorigenesis and Size Control
[Shuying Shen](#), Xiaocan Guo, Huan Yan, Xinyan Ji, [Bin Zhao](#)
- PB03 Bcl-xL Promotes Metastasis Independent of its Anti-Apoptotic Activity
[Soyoung Choi](#), Xuejun Jiang, [Yi-Chieh Nancy Du](#)
- PB05 Inhibition of Endoplasmic Reticulum Stress-Associated IRE-1/XBP-1 Pathway Reduces Leukemic Cell Survival
[Chih-Hang Tang](#), Sujeewa Ranatunga, Jianguo Tao, Javier Pinilla-Ibarz, Juan Del Valle, Chih-Chi Hu

PB: Cancer Research

- PB06 Molecular and Cellular Mechanisms of Pin1-Mediated Grb7 Protein Stability in Cell Progression
[Yu-Ling Tai](#), Li-Hsuan Tung, Yu-Chi Lin, Tang-Long Shen
- PB07 LDHA Up-Regulation by 14-3-3 ζ Increases Glycolysis that Promotes Breast Cancer Initiation and Progression
[Chia-Chi Chang](#), Chenyu Zhang, Hai Wang, Qingling Zhang, Jia Xu, Yi Xiao, Dihua Yu
- PB08 Association between Alkylphenol Exposure and Endometrial Cancer
Hui-Ju Wen, Wang-Hsien Ding, Shih-Fen Tsai, Ting-Chang Chang, Chao Agnes Hsiung, [Shu-Li Wang](#)
- PB09 Oncogenic K-ras Confers SAHA Resistance by Up-Regulating HDAC6 and c-myc Expression
[Qun Wang](#), Rong Tan, Xin Zhu, Yi Zhang, Zhi-Ping Tan, Bing Su, Yu Li
- PB10 Systems Biology Approach Reveals Drug Resistance Mechanism in Multiple Myeloma
[Junmin Peng](#)
- PB11 Role of TAp63 γ , and p53M in DNA Repair, Mutator and Invasion Phenotype of Bladder Cancer
[Hsiang-Tsui Wang](#), Hyun-Wook Lee, Mao-Wen Weng, Josephine Kuo, Yan Liu, William C. Huang, Herbert Lepor, Xue-Ru Wu, Moon-Shong Tang
- PB12 Nrf2 Plays a Key Role of Drug Resistance under Hypoxia Microenvironment in Breast Tumor
Jhieh-Pu Syu, [Hsiu-Ni Kung](#)
- PB13 Syndecan1 is Required for Oncogenic Kras Driven PDAC Tumorigenesis and Maintenance
[Wantong Yao](#), Haoqiang Ying, Giulio Draetta
- PB14 The Role of Resistin in Breast Cancer: Epithelial-Mesenchymal Transition and Stemness
[Chie-Hong Wang](#), Po-Jen Wang, Yi-Chen Lee, Yuan-Chu Chen, Ming-Feng Hou, Shyng-Shiou Yuan

PB: Cancer Research

- PB15 p53-Independent and Functional Regulations of RRM2B in Cancer
[Er-Chieh Cho](#), Mei-Ling Kuo, Jia-Hui Cheng, Yi-Chen Hsieh, Yawen Cheng, Rong-Hong Hsieh, Yun-Ru Liu, Yun Yen
- PB16 Sister Chromatid Exchanges by MYST Family of Histone Acetyltransferases to Confer Cisplatin-Resistant Phenotype
[Sen-Huei Hsu](#), Song-Bin Chang, Wen-Tai Chiu, Ming-Daw Tsai, Wen-Pin Su, [Hungjiun Liaw](#)
- PB17 Next-Generation Screen for Integrative Subtyping and Biomarker Discovery for KRAS-Mutant Cancer
[Tina Yuan](#), Rachel Bagni, Ming Yi, Arnaud Amzallag, Shervin Afghani, Katie Beam, William Burgan, Nicole Fer, Leslie Garvey, Brian Smith, Andrew Waters, Robert Stephens, Cyril Benes, Frank McCormick
- PB19 Taxol Binds Differentially to Distinct β -Tubulin Isoforms
[Chia-Ping Huang Yang](#), Hui Xiao, Susan Band Horwitz
- PB20 PSPC1 is a Master Activator of Cancer Cell Transmissions to Mesenchyme Stemness and Metastasis
[Hsi-Wen Yeh](#), Yuh-Shan Jou
- PB21 Downregulation of SHIP2 by HBx Promotes the EMT and Metastasis of Hepatocellular Carcinoma through Skp2
Kuo-Jung Su, [Yung-Luen Yu](#)
- PB22 HBx Sensitizes HCC Cell Lines to Lapatinib by Up-Regulating ErbB3
[Jhen-Yu Chen](#), Yun-Ju Chen, Wen-Shu Chen, Wei-Chien Huang
- PB23 Lapatinib Enhances Migration Ability of Triple-Negative Breast Cancer Cells through Induction of MAPK-Dependent Interleukin-6 Expression
[Yu-Chun Hsiao](#), Yun-Ju Chen, Wei-Chien Huang

PB: Cancer Research

- PB24 Suppression of Maspin by IKK α -Dependent microRNAs Contributes to HBx-Mediated Human Hepatocellular Carcinoma Progression
[Wen-Shu Chen](#), Chia-Jui Yen, Yun-Ju Chen, Jhen-Yu Chen, Li-Yun Wang, Shu-Jun Chiu, Wen-Ling Shih, Chien-Yi Ho, Shu-Hui Liu, Tzu-Tang Wei, Hsiao-Lin Pan, Pei-Hsuan Chien, Ching-Chow Chen, Mien-Chie Hung, Wei-Chien Huang
- PB25 Nitrostyrene Derivatives Inhibit TNF α /NF κ B Signaling Activity by Binding to tRXR α
 Zhiping Zeng, Zhe Sun, Mingfeng Huang, Weidong Zhang, Jie Liu, Liqun Chen, Fan Chen, Yuqi Zhou, Jiacheng Lin, Fengyu Huang, Lin Xu, Zixing Zhuang, Shangjie Guo, Gulimiran Alitongbieke, Guobin Xie, Yang Xu, Bingzhen Lin, Xihua Cao, Ying Su, Xiao-kun Zhang, [Hu Zhou](#)
- PB26 HBV Large Surface Antigen Drives Chromosome Structural Aberrations and Cytokinesis Failure in Hepatocytes
[Tian-Neng Li](#), Hui-Lin Wu, Cheng-Pu Sun, Mi-Hua Tao, Ih-Jen Su, Lily Hui-Ching Wang
- PB27 Epidermal Growth Factor-Induced Cyclooxygenase-2 Enhances Head and Neck Squamous Cell Carcinoma Metastasis through Fibronectin Up-Regulation
[Jinn-Yuan Hsu](#), Kwang-Yu Chang, Shang-Hung Chen, Chung-Ta Lee, Sheng-Tsung Chang, Hung-Chi Cheng, Wen-Chang Chang, Ben-Kuen Chen
- PB29 The Synthetic β -Nitrostyrene Derivative CYT-Rx20 Reduces Colon Cancer Tumor Growth via Reactive Oxygen Species Production
[Chun-Hao Tsai](#), Amos C. Hung, Ching-Yi Lin, Yu-Sian Lin, Yen-Hsin Liu, Pei-Wen Hsieh, Shyng-Shiou F. Yuan
- PB30 Hepatitis B Virus Large Surface Protein Promotes Warburg Effect through Binding to Pyruvate Kinase Isoenzyme M2
[Yi-Hsuan Wu](#), Ju-Hsuan Chen, Lily Hui-Ching Wang
- PB31 Composition and Functional Analysis of the Exosome Derived from Isogenic Oral Squamous Cell Carcinoma Cells with Different Potentials of Lymph Node Metastasis
[Szu-Heng Liu](#), Yi-Chen Yen, Ssu-Hang Wang, Ya-Wen Chen

PB: Cancer Research

- PB33 The Novel β -Nitrostyrene Derivative CYT-Rx20 Reduced Human Lung Cancer Growth and Migration/Invasiveness via ROS Production
[Amos Hung](#), Chun-Hao Tsai, Ching-Yi Lin, Yu-Sian Lin, Yen-Hsin Liu, Pei-Wen Hsieh, Shyng-Shiou Yuan
- PB34 Mre11 Promotes Cell Proliferation and Tumor Invasion in Lung Cancer
[Wen-Chin Chiu](#), Tso-Wen Wang, Yi-Chen Lee, Yu-Han Su, Kun-Chou Hsieh, Yu-Jen Cheng, Shah-Hwa Chou, Yen-Lung Lee, Hung-Hsing Chiang, Chih-Jen Huang, Shyng-Shiou F. Yuan
- PB35 Upregulation of Mitochondrial Lon Drives Tumor Epithelial-to-Mesenchymal Transition and Angiogenesis via NF- κ B-TGF- β Signaling
[Chieh-Wen Cheng](#), Han-Yu Chou, [Alan Yueh-Luen Lee](#)
- PB36 4 β -Hydroxywithanolide E Modulates Alternative Splicing of Apoptotic Genes in Human Hepatocellular Carcinoma Huh-7 Cells
[Chien-Chih Lee](#), Wen-Hsin Chang, Ting-Yuan Liu, Yu-Chia Chen, Ya-Sian Chang, Yang-Chang Wu, Jan-Gowth Chang
- PB37 Extracellular PKM2 Induces Cancer Proliferation by Activating EGFR Signaling Pathway
[Ming-Chuan Hsu](#), Wen-Chun Hung, Hirohito Yamaguchi, Seung-Oe Lim, Hsin-Wei Liao, Mien-Chie Hung
- PB38 Development of A Peptide-Based Drug Delivery Strategy for Epithelial Tumor Targeting and Drug Uptake Enhancement
[Ping-Hsueh Kuo](#), Wen Han, Yu-Shiuan Liu, Shun-Lung Fang, Jonathan Chin-Chung Chao, Margaret Dah-Tsyr Chang
- PB39 Lapatinib Induces Autophagic Cell Death in Monocytic Leukemia
[Huey-Lan Huang](#), Li-Wen Fang, Wen-Chi Su, Kai-Chien Yang, Wen-Yi Hsu, Yu-Jen Chen
- PB40 The Mechanisms of Cellular Internal Ribosomal Entry Site Polymorphisms Affect its Activity
[Jiajia Cui](#), Chenyue Qian, Jiye Yin

PB: Cancer Research

- PB41 Myc Induces Expression of Glutamine Synthetase through Thymine DNA Glycosylase-Mediated Promoter Demethylation
[I-Chen Peng](#), Alex J. Bott, Yongjun Fan, Brandon Faubert, Lu Zhao, Jinyu Li, Sarah Neidler, Yu Sun, Nadia Jaber, Dawid Krokud, Maria Hatzoglou, Scott Powers, Daniel J. Murphy, Russell Jones, Song Wu, Geoffrey Girnun, Wei-Xing Zong
- PB42 Inhibition of STK6 Signaling Prevents the Malignant State of Oral Squamous Cell Carcinoma
[Chang-Han Chen](#), Chih-Yen Chien, Hsin-Ting Tsai
- PB43 Role of ROS1 in Oral Cancer Progression
[Chien-Hung Shih](#), Yu-Jung Chang, Wei-Chieh Huang, Meng-chin Lin, Lu-Hai Wang, Linyi Chen
- PB44 Regulation of Tissue Size and Growth in Development and Tumorigenesis
[Tian Xu](#)
- PB45 Inhibition of EPAC1 Reduces Pancreatic Cancer Metastasis in Vivo
Muayad Almahariq, [Fang Mei](#), Celia Chao, Mark Hellmich, Xiaodong Cheng
- PB46 ADAM9 Regulates MicroRNAs Expression for Lung Cancer Metastasis
[Yuh-Pyng Sher](#), Kuo-Liang Chiu, Ting-Ting Kuo, Qian-Yu Kuok, Liang-Chuan Lai
- PB47 The Role of CPAP in Mitosis
[En-Ju Chou](#), Liang-Yi Hung, Chieh-Ju C. Tang, Wen-Bin Hsu, Tang K. Tang
- PB48 Gluconeogenesis, Lipogenesis, and HBV Replication Are Commonly Regulated by PGC-1 α -Dependent Pathway
Hong-Jih Jhuang, [Wei-Hsiang Hsu](#), Chi-Ying Huang
- PB49 Interleukin-1 Beta Transactivates Epidermal Growth Factor Receptor via the CXCL1-CXCR2 Axis in Oral Cancer
[Chia-Huei Lee](#), Shih-Han Syu, Ko-Jiunn Liu, Pei-Yi Chu, Wen-Chan Yang

PB: Cancer Research

- PB50 Involvement of RYBP in Growth and Response to Chemotherapy in Non-Small Cell Lung Cancer
[Wei Wang](#), Sukesh Voruganti, Jiang-Jiang Qin, Subhasree Nag, Biyun Qian, Ruiwen Zhang
- PB51 4E-Binding Protein 1, a Hallmark in Colorectal Cancer that Associated with Clinical Survival Outcomes
[Min-Wu Chao](#), Li-Ting Wang, Chin-Yu Lai, Xiao-Ming Yang, Ya-Wen Cheng, Kuo-Hsiung Lee, Shiow-Lin Pan, Che-Ming Teng
- PB52 MDMx Exerts its Oncogenic Activity in Suppression of Retinoblastoma Protein
[Zhi-Xiong Jim Xiao](#), Haibo Zhang, Yujun Zhang, Wei Qiu
- PB53 Small Molecular Antitumor Agents, WYCs, with Activity against Cisplatin Resistance in Urothelial Cancer
[Juan-Cheng Yang](#), Da-Wei Chuang, Kuo-Hsiung Lee, Yang-Chang Wu
- PB54 Metformin Suppresses Cancer Formation by Inducing Anoikis via Modulation of Δ Np63 α
[Yong Yi](#), Zhi-Xiong Xiao
- PB55 Targeting the Wnt Signaling Suppresses Tumor Growth of Breast Cancer Cells with Cell-Penetrating Peptides
[Tsung-Hua Hsieh](#), Eing-Mei Tsai
- PB56 FGF-integrin Crosstalk through Direct Integrin Binding to FGF:Development of a Dominant-negative FGF Mutant (FGF Decoy)
[Jessica Yu](#), Seiji Mori, Yoko Takada, Yoshikazu Takada
- PB57 Epithelial-Mesenchymal Transition Induced by TNF- α Requires NF- κ B-Mediated Transcriptional Upregulation of Twist1
[Chia-Wei Li](#), [Weiya Xia](#), Longfei Huo, Seung-Oe Lim, Yun Wu, Jennifer L. Hsu, Hirohito Yamaguchi, Neng-Kai Yang, Qingqing Ding, Yan Wang, Yun-Ju Lai, Adam M. LaBaff, Ting-Jung Wu, Been-Ren Lin, Muh-Hwa Yang, Gabriel N. Hortobagyi, Mien-Chie Hung

PB: Cancer Research

- PB58 Glucosylceramide Synthase Facilitates Bcl-xL-Mediated Cell Survival in Vinorelbine-Resistant Lung Adenocarcinoma Cells
[Wei-Hsin Chiu](#), [Wu-Chou Su](#), [Chia-Ling Li](#), [Chia-Ling Chen](#), [Chiou-Feng Lin](#)
- PB59 Enhanced Hif-1 α Transcription by Epstein-Barr Virus LMP1 in Nasopharyngeal Carcinoma Cells
[Wei-Wen Sung](#), [Yi-Chih Chu](#), [Peir-Rong Chen](#), [Ming-Hui Liao](#), [Jeng-Woei Lee](#)
- PB60 Epigenetic Silencing of MicroRNA-137 Promotes Proliferation and Controls Colorectal Carcinogenesis by Targeting Aurora-A
[Yu-Chuan Huang](#), [Bo-Wen Lin](#), [Ying-Jen Chen](#), [Jenq-Chang Lee](#), [Liang-Yi Hung](#)
- PB61 Ligand-Dependent AhR Promotes Expansion of Breast Cancer Stem Cells via SK1/S1P/S1PR3 Signaling
[Eing-Mei Tsai](#), [Yu-Chih Wang](#)
- PB62 Function of Ku70 Outside Non-Homology End-Joining
[Nahum Puebla-Osoio](#), [Jiseong Kim](#), [Omid Tavana](#), [Chengming Zbu](#)
- PB63 Leukocyte Cell-Derived Chemotoxin 2 Suppresses Angiogenesis in Hepatocellular Carcinoma
[Wen-Hsuan Yu](#), [Chi-Kuan Chen](#), [Kuo-Tai Hua](#), [Michael Hsiao](#), [Mien-Chie Hung](#)
[Min-Liang Kuo](#)
- PB64 Suppression of Immune Response by High 14-3-3 ζ Expression in Triple Negative Breast Cancer Contributes to Aggressive Tumor Progression
[Wen-Ling Kuo](#), [Yi Xiao](#), [Xianliang Yuan](#), [Yao-Chong Wu](#), [Dihua Wu](#)
- PB65 The Deubiquitinase USP3 Controls CHK1 Cellular Localization and Activation
[Yu-Che Cheng](#), [Sheau-Yann Shieh](#)
- PB66 Human Choline Kinase Alpha Regulates HCV RNA Replication via Interaction with Viral NS5A Protein
[Mun-Teng Wong](#), [Steve S-L Chen](#)

PC: Gene Regulation and RNA Biology

- PC01 Targeting and Regulation of Epstein-Barr Virus Origin of DNA Replication by MicroRNA Hsa-miR-155
[Yueh-Lung Wu](#), [Hsuan Tung](#), [Sung-Chan Wei](#), [Yu-Chan Chao](#)
- PC02 Does Tramtrack69 Directly Recruit Polycomb Repressive Complex 1?
[Yi-Ru Li](#), [Yu-Chin Chao](#), [Gwo-Jen Liaw](#)
- PC04 Proteome Profiling of Cadmium-Induced Apoptosis by Antibody Array Analyses in Human Bronchial Epithelial Cells
[Dan-Dan Wu](#), [Wei Zheng](#), [Yuan Zhou](#), [Yick-Pang Ching](#), [Yan-Ming Xu](#), [Andy T. Y. Lau](#)
- PC05 GAGA Factor Regulates Transcriptional Pausing via Nucleosomal Remodeling
[Shih-Ying Tsai](#)
- PC06 Caveolin-1 Facilitates Derlin-2- and Derlin-1-mediated Cyclooxygenase-2 Degradation
[Shu-Fen Chen](#), [Song-Kun Shyue](#)
- PC07 SH2B1 Regulates Myogenesis through Myogenin and Igf2
[Kuan-Wei Chen](#), [Chia-Ming Yeh](#), [Michael W. Y. Chan](#), [Shen-Liang Chen](#), [Linyi Chen](#)
- PC08 Exosome From Patients' Blood Indicates the Different Mechanisms of Different Atrial Fibrillation
[Zhengxi Xu](#), [Yuanyuan Fu](#), [Zhou Zhou](#), [Zhe Zheng](#)
- PC09 β TrCP-mediated Ubiquitination and Degradation of Liver-Enriched Transcription Factor CREB-H
[Yun Cheng](#), [Hei-Man Vincent Tang](#), [Wei-Wei Gao](#), [Jian-Jun Deng](#), [Chi-Ping Chan](#), [Dong-Yan Jin](#)
- PC10 Ubiquitination and Degradation of CRTC1 Transcriptional Coactivator Triggered by Salt-Inducible Kinase 1-Dependent Phosphorylation
[Wei-Wei Gao](#), [Hei-Man Tang](#), [Yun Cheng](#), [Jian-Jun Deng](#), [Chi-Ping Chan](#), [Dong-Yan Jin](#)

PD: Genomic Biology and Genetic Diseases

- PD02 The Y-Encoded SRY Disruption of RET Transcription and Contribution to Sexual Dimorphisms in Hirschsprung Disease
[Yunmin Li](#), Tatsuo Kido, Z. Laura Tabatabai, Yun-Fai Chris Lau
- PD04 M Phase Leading Strand Telomere DNA Deprotection Caused by Mutations at DNA-PKcs Phosphorylation Sites
[Shichuan Zhang](#) [Shinji Matsunaga](#), [Benjamin Chen](#)
- PD05 Novel PRKAG2 Mutations Causing Hypertrophic Cardiomyopathy- Rapamycin as a Therapeutic Option
[Yanchun Xu](#), [Grahame Hardie](#), [James Padbury](#), [Philip Gruppuso](#), [Chanika Phornphutkul](#), [Yi-Tang Tseng](#)
- PD06 Genetic Variant in Glycoprotein Receptor Ia is Associated with Adverse Events after Coronary Surgery
[Hanning Liu](#), Zhou Zhou, Shengshou Hu, Zhe Zheng
- PD07 Mre11 Might Recruits Conjugated SUMO Moieties to Facilitate the Assembly and Function of Mre11-Rad50-Xrs2 Complex
[Yu-Jie Chen](#), Chi-Ning Chuang, Yun-Hsin Cheng, Chuang-Rung Chang, Chih-Hsiang Leng, Ting-Fang Wang
- PD08 Three Distinct Modes of Yeast Mec1 and Tel1 Meiotic Activation Illustrate Differential Checkpoint Targeting
[Yun-Hsin Cheng](#), Chi-Ning Chuang, Hui-Ju Shen, Feng-Ming Lin, Ting-Fang Wang
- PD09 Sexual Development of *Trichoderma reesei* CBS999.97 Wild Isolate Generates Segmental Aneuploidy Progeny
[Yu-Chien Chuang](#), Wan-Chen Li, Chia-Ling Chen, Paul Wei-Che Hsu, Shu-Yun Tung, Hsiao-Che Kuo, Monika Schmoll, Ting-Fang Wang

PE: Immunity, Infection and Inflammation

- PE01 IFITM Proteins Restrict HIV-1 Infection by Antagonizing Envelope Glycoprotein
Jingyou Yu, Minghua Li, Jordan Wilkins, Shilei Ding, Talia Swartz, Anthony Esposito, Yi-Min Zheng, Eric Freed, Chen Liang, Benjamin Chen, [Shan-Lu Liu](#)
- PE02 Inability to Resolve Specific Infection and Persistent Inflammation in $Xiap^{-/-}$ Mice
Wan-Chen Hsieh, Ya-Ting Chuang, I-Hsua Chiang, Shi-Chuen Miaw, Shu-Ching Hsu, [Ming-Zong Lai](#)
- PE03 Attenuated Dengue Type Four Viruses Containing Adaptive Mutation from MRC-5 Cells for Vaccine Development
Hsiao-Han Lin, Hsiang-Chi Lee, Xiao-Feng Li, Meng-Ju Tsai, Hung-Ju Hsiao, Jia-Guan Peng, Shih-Che Sue, Cheng-Feng Qin, [Suh-Chin Wu](#)
- PE04 Effects of Paracetamol on Rats with Lipopolysaccharide-Induced Sepsis-Like Inflammation Syndrome
Reui-Ling Chen, Mei-Huei Liao, Cheng-Ming Tsao, [Chin-Chen Wu](#)
- PE05 Effects of Hydralazine on Lipopolysaccharide-Induced Inflammation in Rats
[Shiu-Jen Chen](#), Tsan-Seng Hsiao, Chih-Chin Shih, Reui-Ling Chen, Mei-Hui Liao, Michelle Hui-Hsin Lee, Chin-Chen Wu
- PE06 Highly Pathogenic PRRSV Infection Induced Apoptosis and Autophagy in Thymi of Infected Piglets
Gang Wang, Ying Yu, Yabin Tu, Jie Tong, Yonggang Liu, Chong Zhang, En-Min Zhou, [Xuehui Cai](#)
- PE07 Vpr Increases Env Spikes on HIV-1 Virions to Enhance Viral Replication in Non-Dividing Myeloid Cells
[Xianfeng Zhang](#), Tao Zhou, Dylan A. Frabutt, Yong-Hui Zheng
- PE08 Novel Action of Tylophorine Analogs Against HCV Replication Mediated Through HSC70
[Ying Wang](#), Kuo-Hsiung Lee, Yung-Chi Cheng

PE: Immunity, Infection and Inflammation

- PE09 Galectin-1 Accelerates Wound Healing by Regulating the Neuropilin-1/Smad3/NOX4 Pathway and ROS Production in Myofibroblasts
[Yueh-Te Lin](#), [Jihh-Sian Chen](#), [Ming-Heng Wu](#), [I-Shan Hsieh](#), [Chen-Hsien Liang](#), [Cheng-Lung Hsu](#), [Tse-Ming Hong](#), [Yuh-Ling Chen](#)
- PE10 High Mobility Goup Box 1 Induced Epithelial Mesenchymal Transition in Human Airway Epithelial Cells
[Chen-Chen Lee](#), [Yu-Ching Chen](#), [Sarah Statt](#), [Reen Wu](#), [Hao-Teng Chang](#), [Jiunn-Wang Liaod](#), [Woei-Cherng Shyu](#)
- PE11 Inhibition of Haloalkanes-Induced Acute Oxidative Liver Injury through α -Adrenergic Antagonism
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