

Conference Rooms

Location		lectures/presentations	Date
Yun An International Conference Center (云安国际会议中心)	The 2 nd Floor Lecture Hall (2楼整厅)	Opening ceremony/Keynote/ Welcome reception	24 th July
Yun An Auditorium (云安会堂)	The 3 rd Floor Lecture Hall (3楼报告厅)	Keynote/ Plenary/ Named/ Award lectures	25 th -28 th July
	Conference Room 2F-1 (二楼1号厅)	Session: 3/8/13/18/24/30/35/40/45/50	25 th -27 th July
	Conference Room 2F-7 (二楼7号厅)	Session: 4/9/14/19/25/31/36/41/46/51	25 th -27 th July
	Conference Room 3F-1 (三楼1号厅)	Session: 21/27/L32	26 th July
	Conference Room 3F-10 (三楼10号厅)	Session: 5/10/15/20/26/32/37/42/47/52	25 th -27 th July
	Conference Room 4F-1 (四楼1号厅)	Session: 1/6/11/16/22/28/33/38/43/48	25 th -27 th July
	Conference Room 4F-2 (四楼2号厅)	Session: 2/7/12/17/23/29/34/39/44/49	25 th -27 th July

Map of the hotel



Program at a glance

	24 th July Day 1		Time	25 th July Day 2	26 th July Day 3	27 th July Day 4	Time	28 th July Day 5		
Morning	Arrival and Registration		8:00-8:45	Keynote (Xuetao Cao)	Keynote (Elaine Ostrander)	President Award lecture (Zhijian (James) Chen)	8:30-9:15	Keynote (Lieping Chen)		
			8:45-9:20	Plenary (Haifan Lin)	Plenary Lecture (Hua Yu)	KT Jeang Memorial lecture (David Ho)	9:15-9:50	Plenary Lecture (Huanming Yang)		
			9:20-9:40	20-min break	20-min break	20-min break	9:50-10:00	Election Announcement		
			9:40-10:55	Sessions 1,2,3,4,5	Sessions 16,17,18,19,20, 21	Sessions 38,39,40, 41, 42	10:00-10:20	20-min break		
			10:55-11:15	20-min break	20-min break	20-min break	10:20-11:50	Presidential Human Genome Editing Forum: promises and challenges (Speakers: Matthew Porteus, Xiaomei Zhai; Panel discussion: Paul Liu, Linzhao Cheng, Wensheng Wei, Huanming Yang)		
			11:15-12:30	Sessions 6,7,8,9,10	Sessions 23,24,25, 26, 27	Sessions 43, 44, 45, 46, 47		11:50-12:20	Poster Awards; Travel Awards; Acknowledgements	
								12:20-12:40	SCBA New President (Paul Liu and Hui Zheng)	
					12:30-14:00	Lunch	Lunch	Lunch	12:40-	Lunch
					14:00- 14:35	Plenary lecture (Weizhi Ji)	Sessions 28,29,30, 31, 32, LS32 (14:00-15:15pm)	Dr. Tsai-Fan Yu Legacy Lecture (Chen Dong) (14-14:35pm)		
					14:35-15:05	Kenneth Fong Young Investigator Award lecture (Meng C. Wang)		Kenneth Fong Young Investigator Award (Xin Chen) (14:35-15:05pm)		
		15:05-15:25	20-min break	10-min break	20-min break					
		15:25- 16:40	Sessions 11,12,13,14,15	Sessions 33,34,35, 36, 37	Sessions 48, 49, 50, 51, 52					
Afternoon		17:00- 18:30	Poster I Workshop for Career Development Moderator: Jianming Xu; Speakers and Panel discussion: Xuetao Cao, Mien-Chie Hung, Meng Wang, Xi He, Wei Yang, Xin Chen	Poster II Publication Forum with Cell/Science/Cell Research Editors Moderator: Linheng Li; Speakers: John Pham, Beverly Pumell, Dangsheng Li	Plenary lecture 16:40-17:15 (Zihe Rao)	Departure				
Evening	18:20-19:30	Opening Ceremony Liu/Chen/others	18:30-20:30	-Banquet -Lifetime Achievement Award (James Wang) -Acknowledgements (Pan Zheng)	18:30-20:00 VIP Dinner	Dinner (18:00 -)				
	19:30-20:15	Keynote (Brian Kobilka)								
	20:15-21:45	Welcome Reception								

Main Program

July 24, 2019

Venue: The 2nd Floor Lecture Hall, Yun An international conference center (云安国际会议中心 2F 整厅)

18:20-19:30	<p>Opening Ceremony</p> <p>18:20-19:00</p> <p>Moderator: Jianming Xu, Secretary of SCBA, 2 minutes</p> <p>Welcome Speech: A Leader of Yunnan Province, 7 minutes</p> <p>Opening Address 1: Paul Liu, President of SCBA, 9 minutes</p> <p>Opening Address 2: A Leader of Yunnan University, 9 minutes</p> <p>Opening Address 3: Yong-Biao Xue, President of Genetics Society of China, 7 minutes</p> <p>Program Overview: Linheng Li, Chairman of the Scientific Program Organizing Committee, 5 minutes</p> <p>19:00-19:30</p> <p>Keynote Speech: Dr. Zhu Chen (Shanghai Jiaotong University School of Medicine): Aging and cancer: Effective therapy for multiple myeloma</p> <p>Introduction by a Leader of Yunnan University</p>
19:30-20:15	<p>Keynote Speech</p> <p>Dr. Brian Kobilka (Stanford University): G protein coupled receptors: Challenges in drug discovery</p> <p>Introduction by Xi He (Harvard University)</p>
20:15-21:45	<p>Welcome Reception</p>

July 25, 2019

8:00-9:20

Keynote/Plenary Venue: The 3rd Floor Lecture Hall, Yun An Auditorium (云安会堂三楼报告厅)

8:00-8:45: Keynote Speech

Xuetao Cao (Nankai University): Immune Oncology

Introduction by Linheng Li (Stowers Institute for Medical Research)

8:45-9:20: Plenary Lecture

Haifan Lin (Yale University): A role of piRNA in stem cell and cancer

Introduction by Hongkui Deng (Peking University)

9:20-9:40

20 minutes break

9:40-10:55

Session 1-5

Session 1: Cancer immunity and inflammation. Chairpersons Yichuan Xiao (Chinese Academy of Sciences)/Yun-Cai Liu (La Jolla Institute for Immunology). Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)

9:40-9:55: S1-1 Jun Cui (Sun Yat-Sen University) Regulation of inflammation and innate immunity by selective autophagy.

9:55-10:10: S1-2 Yun-Cai Liu (La Jolla Institute for Immunology). Title: Regulation of inflammation and autoimmunity by ubiquitination.

10:10-10:25: S1-3 Jin Jin (Zhejiang University). Title: A New Insight of T Cell-Mediated Autoimmune Diseases in CNS.

10:25-10:40: S1-4 Xin Lin (Tsinghua University). Title: CARMA family of molecules in immunity and inflammation.

10:40-10:55: S1-5 Yichuan Xiao (Shanghai Institute of Nutrition and Health, Chinese Academy of Sciences). Title: STAT6 acetylation potentiates anti-tumor immunity.

Session 2: Stem Cell and Development. Chairpersons: Jinsong Li (Institute of Biochemistry and Cell Biology)/Shuibing Chen (Weill Cornell Medical College).

Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)

- 9:40-9:55: S2-1 Jinsong Li (Institute of Biochemistry and Cell Biology). Genome tagging project (GTP): tag every protein in mice through “artificial spermatids.
- 9:55-10:10: S2-2 Shuibing Chen (Weill Cornell Medical College). Title: Human Pluripotent Stem Cell-Based Disease Modeling and Drug Screening.
- 10:10-10:25: S2-3 Wei Li (Chinese Academy of Sciences). Title: Regulation and function of allelic imbalance in mammalian development.
- 10:25-10:40: S2-4 Weijun Pan (Chinese Academy of Sciences). Title: Live Characterization on Haematopoietic Stem Cell Homing.
- 10:40-10:55: S2-5 Lingsong Li (Chinese Academy of Sciences). Title: Phosphorylation of Oct4 determines ESC differentiation.

Session 3: New Insights on Inflammatory Signaling: Basic Mechanisms and Liver Disease. Chairpersons: Bing Liang (Kunming Institute of Zoology, Chinese Academy of Science) / Hong-Min Ni (University of Kansas Medical Center). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

- 9:40-9:55: S3-1 Bing Liang (Kunming Institute of Zoology, Chinese Academy of Science). Title: Roles of S100A11 in fatty liver diseases.
- 9:55-10:10: S3-2 Xiaoni Kong (School of Medicine, Shanghai Jiao Tong University). Title: CCL5 deficiency alleviates acute liver injury by promoting inflammation resolution through M2 macrophage polarization.
- 10:10-10:25: S3-3 Hong-Min Ni (University of Kansas Medical Center). Title: Role of MTOR in regulating lipid metabolism in alcoholic liver disease.
- 10:25-10:40: S3-4 Chaohui Yu (College of Medicine, Zhejiang University). Title: Silencing of functional P53 attenuates NAFLD by promoting HMGB1-related autophagy induction.
- 10:40-10:55: S3-5 Hongmei Yi (Southeast University, China). Title: Mitochondrial PKC beta-p66shc-ROS pathway in non-alcoholic steatohepatitis.

Session 4: Cellular Clearance Pathways in Cell Death and Disease. Chairpersons: Hui Zheng (Baylor College of Medicine)/ Yueming Li (Memorial Sloan Kettering Cancer Center). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 9:40-9:55: S4-1 Zheng Zhou (Baylor College of Medicine). Title: Clearance of apoptotic and necrotic cells in *C. elegans*.
- 9:55-10:10: S4-2 Pengbo Zhou (Weill Cornell Medical College). Title: Protein knockout, a new tool in interrogation and intervention of diseases.
- 10:10-10:25: S4-3 Xuejun Jaing (Memorial Sloan Kettering Cancer Center). Title: Ferroptosis, mechanisms and role in disease.

10:25-10:40: S4-4 Yueming Li (Memorial Sloan Kettering Cancer Center). Title: Autophagy-mediated degradation in Alzheimer's disease.

10:40-10:55: S4-5 Hui Zheng (Baylor College of Medicine). Title: A lysosome-nucleus signaling pathway in aging and neurodegeneration.

Session 5: Translating GWAS Discoveries to Biological Understanding of Complex Diseases. Chairpersons: Xiaobo Zhou (Harvard Medical School)/ Jian Yan (City University of Hong Kong). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

9:40-9:55: S5-1 Yong-Gang Yao (Chinese Academy of Sciences). Title: Genetics and molecular mechanism of Alzheimer's disease.

9:55-10:10: S5-2 Yun Li (University of North Carolina). Title: Leveraging Chromatin Interactome Information in post-GWAS studies.

10:10-10:25: S5-3 Jian Yan (City University of Hong Kong). Title: Systematic analysis of differential transcription factor binding to non-coding variants in the human genome.

10:25-10:40: S5-4 Xiaoping Miao (Huazhong University of Science and Technology). Title: Genetic variants in CYP26B1 and risk of esophageal squamous cell carcinoma.

10:40-10:55: S5-5 Xiaobo Zhou (Harvard Medical School). Title: Biological insights into lung diseases from GWAS.

10:55-11:15	20 minutes break
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11:15-12:30	Session 6-10
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Session 6: Autophagy: Basic Mechanisms and Disease. Chairpersons: Wen-Xing Ding (University of Kansas Medical Center)/ Wei-Xing Zong (Rutgers University).

Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)

11:15-11:30: S6-1 Wei-Xing Zong (Rutgers University). Title: TRIM 21 regulates proteostasis in liver tumorigenesis.

11:30-11:45: S6-2 Lin Yang (University of Iowa). Title: Autophagy and ER stress in NAFLD.

11:45-12:00: S6-3 Wen-Xing Ding (University of Kansas Medical Center). Title: Autophagy and lysosomal biogenesis in pancreatitis.

12:00-12:15: S6-4 Han-Ming Shen (National University of Singapore). Title: Autophagy and lipid rafts.

12:15-12:30: S6-5 Li Yu (Tsinghua University). Title: Autophagy, p62 and phase-separation.

Session 7: New Frontiers in Liver Cancer Research. Chairpersons: Xin Wei Wang (National Cancer Institute)/ Mitchell Ho (National Cancer Institute). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)

- 11:15-11:30: S7-1 Gen-Sheng Feng (University of California). Title: A new effective combination immunotherapy for liver cancer.
- 11:30-11:45: S7-2 Junfang Ji (Zhejiang University). Title: Heterogeneity in hepatic cancer stem cells.
- 11:45-12:00: S7-3 Mitchell Ho (National Cancer Institute). Title: The development of CAR T-cell therapy for liver cancer.
- 12:00-12:15: S7-4 Wei Gao (Nanjing Medical University). Title: The role of glypican-3 in regulating Wnt in hepatocellular carcinoma.
- 12:15-12:30: S7-5 Wen Xue (University of Massachusetts Medical School). Title: CRISPR-based liver cancer modeling and gene therapy.

Session 8: Breast Cancer Signaling, Metabolism, Stem Cell and Metastasis. Chairpersons: Jianming Xu (Baylor College of Medicine)/ Yi Li (Baylor College of Medicine). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

- 11:15-11:30: S8-1 Chuxia Deng (University of Macau). Title: Cisplatin reduces energy metabolism and blocks cell metastasis.
- 11:30-11:45: S8-2 Shizhen Emily Wang (University of California). Title: Local and systemic effects of cancer-secreted extracellular vesicles.
- 11:45-12:00: S8-3 Ceshi Chen (Chinese Academy of Sciences). Title: HECTD3 promotes breast cancer metastasis.
- 12:00-12:15: S8-4 Yi Li (Baylor College of Medicine). Title: Understanding how precancerous lesions progress to breast cancer using mouse models.
- 12:15-12:30: S8-5 Jianming Xu (Baylor College of Medicine). Title: Twist-regulated gene expression and breast cancer metastasis.

Session 9: Probing Neural Circuitry, Function and Behavior. Chairpersons: C. Ron Yu (Stowers Institute)/ Minmin Luo (National Institute of Biological Sciences). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 11:15-11:30: S9-1 Yulong Li (Peking University). Title: Spying on monoamine modulation by constructing new genetically encoded sensors.
- 11:30-11:45: S9-2 许晓鸿 (Institute for Neuroscience). Title: Hypothalamic control of territorial aggression in mice.

- 11:45-12:00: S9-3 Tianyi Mao (Oregon Health Science University). Title: Dissecting circuit properties using mesoscopic connectome and novel imaging modalities.
- 12:00-12:15: S9-4 Bo Li (Cold Spring Harbor Laboratory). Title: Dissecting the neural circuitry underlying motivated behaviors.
- 12:15-12:30: S9-5 C. Ron Yu (Stowers Institute). Title: What is critical for the critical period in the development of the olfactory circuit?

Session 10: Drosophila Models of Ageing and Degenerative Diseases. Chairpersons: Jun-yuan Ji (Texas A&M University)/ Sheng Zhang (The University of Texas).

Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

- 11:15-11:30: S10-1 Jun-yuan Ji (Texas A&M University). Title: Role of Wnt signaling in regulating lipid metabolism in *Drosophila*.
- 11:30-11:45: S10-2 Sheng Zhang (The University of Texas). Title: HAP40 is a conserved central regulator of Huntington's disease gene Huntingtin.
- 11:45-12:00: S10-3 Guang-Chao Chen (Academia Sinica). Title: Autophagy in host defense and tissue homeostasis: lessons from fly.
- 12:00-12:15: S10-4 方燕姗 (中科院上海有机化学研究所). Title: Design and Implementation of In Vivo Imaging of Neural Injury Responses in the Adult *Drosophila* Wing.
- 12:15-12:30: S10-5 Chi-Kuang Yao (Academia Sinica). Title: Circuit-dependent propagation of oxidative stress mediates glutamate excitotoxicity-induced motor system deficits in *Drosophila* model of amyotrophic lateral sclerosis.

12:30-14:00 Lunch

14:00-15:05 Plenary /Award lecture Venue: The 3rd Floor Lecture Hall, Yun An Auditorium (云安会堂三楼报告厅)

14:00-14:35: Plenary lecture

Weizhi Ji (Kunming University of Science and Technology): Monkey cloning

Introduction by Qiao Jie (Peking University The Third Hospital)

14:35-15:05: Kenneth Fong Young Investigator Award lecture

Meng C. Wang (Baylor College of Medicine): Messenger Metabolites in Longevity Regulation.

Introduction by Hui Zheng (Baylor College of Medicine)

15:05-15:25	20 minutes break
15:25-16:40	Session 11-15
<p>Session 11: Integrative Prostate Cancer Genomics and Therapy. Chairpersons: Jindan Yu (Northwestern University)/ Qi Cao (Northwestern University). Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)</p> <p>15:25-15:40: S11-1 Jindan Yu (Northwestern University). Title: Integrative genomics analysis of prostate cancer.</p> <p>15:40-15:55: S11-2 Yong Xu (Guangzhou Institutes of Biomedicine and Health, CAS). Title: Target validation and drug discovery for prostate cancer.</p> <p>15:55-16:10: S11-3 Qianben Wang (Duke University). Title: Systems epigenomics to identify transcriptional dependencies in prostate cancer.</p> <p>16:10-16:25: S11-4 Qi Cao (Northwestern University). Title: A HMT-independent role for EZH2 in prostate cancer.</p> <p>16:25-16:40: S11-5 Jianfei Qi (University of Maryland). Title: Histone Demethylase JMJD1A in prostate cancer.</p>	
<p>Session 12: Innate Immunity, Infection, and Organ Damage. Chairpersons: Bin Gao (NIH,USA)/ Cynthia Ju (University of Texas Health Science Center). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)</p> <p>15:25-15:40: S12-1 Bin Gao (NIH, USA). Title: MiRNA-223 controls liver inflammation and injury by targeting multiple inflammatory genes.</p> <p>15:40-15:55: S12-2 Cynthia Ju (University of Texas Health Science Center). Title: Role of eosinophils in liver ischemia reperfusion injury.</p> <p>15:55-16:10: S12-3 Xiaogang Xiang (Shanghai Jiao Tong University). Title: The therapeutic potential of interleukin-22: a specific epithelial survival cytokine, for liver failure and bacterial infection.</p> <p>16:10-16:25: S12-4 Zhanxiang Zhou (University of North Carolina). Title: Dysregulation of intestinal Paneth cell antimicrobial function critically mediates alcohol-induced dysbiosis and hepatic inflammation.</p> <p>16:25-16:40: S12-5 Hongyang Qin (Fourth Military Medical University). Title: Notch signaling in tumor-associated macrophages: implications for innate immunity-targeted cancer therapy.</p>	
<p>Session 13: Molecular mechanism of aging regulation. Chairpersons: Weiwei Dang (Baylor College of Medicine)/ Meng Wang (Baylor College of Medicine). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)</p>	

- 15:25-15:40: S13-1 Meng Wang (Baylor College of Medicine). Title: Lysosomal Lipid Signaling in Longevity Regulation.
- 15:40-15:55: S13-2 Chuankai Zhou (Buck Institute for Research on Aging). Title: Mitochondrial Factors Regulate the Formation and Dissolution of Protein.
- 15:55-16:10: S13-3 Mengqiu Dong (National Institute of Biological Sciences). Title: What does Aging Start at the Molecular Level?
- 16:10-16:25: S13-4 Zhiyong Mao (Tongji University). Title: Novel Roles of SIRT6 in DNA Repair.
- 16:25-16:40: S13-5 Weiwei Dang (Baylor College of Medicine). Title: A high-throughput screen identifies a class-II histone deacetylase as a novel aging regulator.

Session 14: Gut-Liver Axis in Liver Diseases. Chairpersons: Huiping Zhou (Virginia Commonwealth University) / Peng Chen (Southern Medical University). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 15:25-15:40: S14-1 Xudong Wu (Nanjing University). Title: Novel function of RNA binding protein in metabolic syndrome.
- 15:40-15:55: S14-2 Yasuko Iwakiri (Yale University). Title: Macrophage polarity in metabolic diseases.
- 15:55-16:10: S14-3 Gianfranco Alpini (Indiana University). Title: Role of melatonin signaling in gut-hepatobiliary injuries.
- 16:10-16:25: S14-4 Peng Chen (Southern Medical University). Title: Gut microbiota and acute liver injury.
- 16:25-16:40: S14-5 Yu-Jui Yvonne Wan (University of California). Title: Diet, gut microbiota, and health.

Session 15: Targeting Bile Acid Receptors for treating Non-Alcoholic Steatohepatitis (NASH), Diabetes and Liver Cancer. Chairpersons: John Chiang (Northeast Ohio Medical University) / Tian Lan (Guangdong Pharmaceutical University). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

- 15:25-15:40: S15-1 Tian Lan (Guangdong Pharmaceutical University). Title: Sphingosine kinase signaling in liver injury.
- 15:40-15:55: S15-2 Changtao Jiang (Peking University). Title: Intestinal FXR and gut microbiota in treatment of diabetes.
- 15:55-16:10: S15-3 Huichang Bi (Sun Yat-sen University). Title: Nuclear receptors in hepatomegaly and liver regeneration.
- 16:10-16:25: S15-4 Heather Francis (Indiana University). Title: Bile acids and Mast cell regulation of NAFLD/NASH transition.

16:25-16:40: S15-5 Shobha Ghosh (Virginia Commonwealth University). Title: Role of Intestinal Barrier dysfunction in diet-induced diabetes.

17:00-18:30 | **Poster I/Career Development Workshop**

17:00-18:30: Poster Session I. **Venue: The 1st Floor Exhibition Hall A, Yun An Auditorium (云安会堂一楼 A 展厅)**

17:00-18:30: Workshop for Career Development, **Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)**

Moderator: Jianming Xu (SCBA Secretary)

Invited speakers:

Meng Wang (2019 SCBA Young Investigator Winner, HHMI Investigator and Professor at Baylor College of Medicine), 8-10 minutes, with an emphasis on career development of young investigators

Xin Chen (2019 SCBA Young Investigator Winner, Associate Professor at Johns Hopkins University), 8-10 minutes, with an emphasis on career development of young investigators

Wei Yang (A member of National Academy of Science, National Institutes of Health), 8-10 minutes, with an emphasis of career development through doing innovative high impact research

Xi He (Professor, Harvard University), 8-10 minutes, with an emphasis of career development through doing innovative high impact research

Xuetao Cao (The President of Nankai University, the Director of Center for Immunotherapy of Chinese Academy of Medical Sciences), 8-10 minutes, with an emphasis of research leadership career development

Mien-Chie Hung (The President of China Medical University, Taiwan), 8-10 minutes, with an emphasis of research leadership career development

Panel discussion: 30–40 minutes

18:30-20:30

Venue: 1st and 2nd Floors, Yun An International Conference Center (云安国际会议中心一, 二楼)

-Banquet

-Lifetime Achievement Award Ceremony:

The Award goes to Dr. James Wang (Harvard University)

Introduction by Wei Yang (National Institutes of Health)

-Acknowledgements of Sponsors

Pan Zheng, the Treasurer of SCBA

July 26, 2019

8:00-9:20

Keynote Speech/Plenary Lecture Venue: The 3rd Floor Lecture Hall, Yun An Auditorium (云安会堂三楼报告厅)

8:00-8:45: Keynote Speech

Elaine Ostrander (National Institutes of Health): How to build a dog in 2,392,715,236 steps

Introduction by Paul Liu (SCBA).

8:45-9:20: Plenary Lecture

Hua Yu (City of Hope): STAT3 in cancer and as a target for cancer (immune) therapy: an update

Introduction by Pan Zheng (University of Maryland School of Medicine)

9:20-9:40

20 minutes break

9:40-10:55

Session 16-21

Session 16: Coevolution of tumor and tumor microenvironment in Cancer Progression. Chairpersons: Dihua Yu (The University of Texas)/ Lun-Xiu Qin (Fudan University). Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)

9:40-9:55: S16-1 Xiuwu Bian (The 3rd Military Medical University). Title: Pathological Phenome of Cancer: Heterogeneity Challenges Precision Medicine.

9:55-10:10: S16-2 Lun-Xiu Qin (Fudan University). Title: Metabolism aberrations drive hepatocellular carcinoma metastasis.

10:10-10:25: S16-3 Binhua P. Zhou (University of Kentucky). Title: Epithelial-mesenchymal Transition in Breast Cancer Progression and Metastasis.

10:25-10:40: S16-4 Dihua Yu (The University of Texas). Title: Coevolution of tumor and tumor microenvironment in Cancer Metastasis.

10:40-10:55: S16-5 Mien-Chie Hung (The University of Texas). Title: Effect of PD-L1 therapy in tumor microenvironment.

Session 17: Hematological Malignancies. Chairpersons: Rubao Ren (Shanghai Institute of Hematology)/ Qing Yi (Houston Methodist Hospital). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)

9:40-9:55: S17-1 Cheng-cheng Zhang (UT Southwestern Medical Center). Immune checkpoint in acute myelocytic leukemia.

9:55-10:10: S17-2 Jun-ke Zheng (Shanghai Jiaotong University). Title: Metabolic imaging of leukemic stem cells.

10:10-10:25: S17-3 Qing Yi (Houston Methodist Hospital). Title: Role of tumor microenvironment in myeloma drug resistance.

10:25-10:40: S17-4 Jing Zhang (University of Wisconsin Madison). Title: Expression of oncogenic Nras and a MYC transgene in germinal center B cells induces a highly malignant multiple myeloma.

10:40-10:55: S17-5 Shu-Hsia Chen (Houston Methodist Research Institute). Title: MDSC mediated immune suppression for GVHD while retaining graft verse leukemia activity.

Session 18: Stem cells and early development. Chairpersons: Feng Liu (Chinese Academy of Sciences)/ Dei Ding (Columbia University). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

9:40-9:55: S18-1 DING LEI (Columbia University). Title: Genetic dissection of the hematopoietic stem cell niche.

9:55-10:10: S18-2 Jian Huang (Temple University). Title: Tracking hematopoietic precursor division ex vivo in real time.

10:10-10:25: S18-3 Fuchou Tang (Peking university). Title: Single-cell RNA sequencing analysis reveals sequential cell fate transition during human embryogenesis.

10:25-10:40: S18-4 LU WANG (Chinese Academy of Medical Sciences). Title: Epigenetic regulation of blood stem cells and early development.

10:40-10:55: S18-5 Feng Liu (Chinese Academy of Sciences). Title: Deciphering new mechanisms of hematopoietic stem cell development in zebrafish.

Session 19: Novel Mechanisms for Obesity and Diabetes. Chairpersons: Yong Xu (Baylor College of Medicine)/ Feng Liu (Zhongnan University). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

9:40-9:55: S19-1 Qingchun Tong (UT McGovern Medical School). Title: Stress and Obesity.

- 9:55-10:10: S19-2 Zhiping Pang (Rutgers University). Title: Synaptic Mechanism of Neuropeptides in Mediating Food Intake Behavior.
- 10:10-10:25: S19-3 Yong Xu (Baylor College of Medicine). Title: Brain Glucose Sensing and Glycemic Control.
- 10:25-10:40: S19-4 Lily Dong (University of Texas Health). Title: The Role and Mechanism of Adiponectin Signaling in Controlling Insulin Sensitivity and Inflammation.
- 10:40-10:55: S19-5 Qin Yang (University of California at Irvine). Title: Epigenetic Regulation of Energy Metabolism.

Session 20: Interfaces of Replication, Transcription, and DNA Repair: A Structural Perspective. Chairpersons: Dong Wang (University of California, San Diego)/ Wei Yang (NIDDK, NIH). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

- 9:40-9:55: S20-1 Wei Yang (National Institute for Health). Title: Structures and operation principles of the replisome.
- 9:55-10:10: S20-2 Dong Wang (University of California, San Diego). Title: Structure basis of transcription-coupled DNA damage recognition.
- 10:10-10:25: S20-3 Ruiming Xu (Institute of Biophysics, CAS). Title: Epigenetic control of gene expression.
- 10:25-10:40: S20-4 Gang Cai (University of Science & Technology of China). Title: Structure basis of ATM and ATR.
- 10:40-10:55: S20-5 Xin Liu (University of Texas). Title: Structure and Function of Polycomb Repressive Complex 2, A Master Epigenetic Regulator of Gene Expression.

Session 21: Biodiversity and adaptation. Chairperson: Cheng-Gang Zou (Yunnan University). Venue: Conference Room 3F-1, Yun An Auditorium (云安会堂三楼 1 号厅)

- 9:40-9:55: S21-1 Chengshu Wang (Shanghai Institute of Plant Physiology and Ecology, CAS). Title: Population genomics of fungal adaptation to hosts.
- 9:55-10:10: S21-2 Shi-Qing Cai (Institute of Neuroscience, CAS). Title: Genetic variation in glia-neuron signaling modulates behavioral aging.
- 10:10-10:25: S21-3 Li Yu (Yunnan University). Title: Genetic diversity, evolutionary history and adaptation of Asian sub-nosed monkeys.
- 10:25-10:40: S21-4 Chang Chen (Institute of Biophysics, CAS). Title: Redox response resistance and aging.
- 10:40-10:55: S21-5 Cheng-Gang Zou (Yunnan University). Title: Role of the adiponectin

receptor signaling in aging.

10:55-11:15 20 minutes break

11:15-12:30 Session 23-27

Session 23: Developmental Signaling Pathways in Cancer and Differentiation. Chairpersons: Ying E Zhang (National Cancer Institute, NIH)/ Kunxin Luo (University of California, Berkeley). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)

11:15-11:30: S23-1 Ying E Zhang (National Cancer Institute, NIH). Title: TGF-beta-regulated alternative splicing in Cancer Progression.

11:30-11:45: S23-2 Xi He (Boston Children's Hospital, Harvard Medical School). Title: A novel mechanism of frizzled regulation in vertebrate development and human pathogenesis.

11:45-12:00: S23-3 Kunxin Luo (University of California, Berkeley). Title: SnoN in signaling and differentiation.

12:00-12:15: S23-4 Pinglong Xu (Zhejiang University). Title: A protein phosphatase curbs organ regeneration by targeting Hippo signaling.

12:15-12:30: S23-5 Steven Y Cheng (Nanjing Medical University). Title: Medulloblastoma, Hedgehog and unexpected role of Suppressor of Fused.

Session 24: Antiviral Immunity. Chairpersons: Genhong Cheng (UCLA)/ Lishan Su (UNC at Chapel Hill). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

11:15-11:30: S24-1 Genhong Cheng (UCLA). Title: Type I interferon response to viral infection.

11:30-11:45: S24-2 Lishan Su (UNC at Chapel Hill). Title: Plasmacytoid dendritic cells in persistent virus infection and pathogenesis.

11:45-12:00: S24-3 Shan-Lu Liu (The Ohio State University). Title: Restriction of HIV infection and viral countermeasures.

12:00-12:15: S24-4 Shou-wei Ding (University of California, Riverside). Title: Antiviral RNA interference.

12:15-12:30: S24-5 Qihan Li (Peking Union Medical College). Title: Innate immunity and design of antiviral vaccine development.

Session 25: Modulating Ubiquitin Signaling in Human Diseases. Chairpersons: Wei Zhang (University of Guelph)/ Yi Sheng (York University). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 11:15-11:30: S25-1 Wei Zhang (University of Guelph). Title: Targeted inhibition and activation of ubiquitin signaling by protein engineering.
- 11:30-11:45: S25-2 Yi Sheng (York University). Title: HUWE1 missense mutation R2981H impairs E3 ligase function by disrupting the structure of a tandem ubiquitin-binding motif in XLID.
- 11:45-12:00: S25-3 Yong Zhao (Beijing Computing Center). Title: An integrated structure-based approach for the development of anticancer drugs.
- 12:00-12:15: S25-4 Hui Zheng (Soochow University). Title: Ubiquitination regulation of type-I interferon signaling and antiviral efficacy.
- 12:15-12:30: S25-5 Liang Zhang (City University of Hong Kong). Title: The ubiquitin-proteasome system in regulating planar cell polarity.

Session 26: HSCs, microenvironment, and hematopoiesis. Chairpersons: Jiwang Zhang (Loyola University Chicago)/ Demin Wang (The Blood Research Institute). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

- 11:15-11:30: S26-1 Ying Liang (University of Kentucky). Title: Genetic diversity as a means to identify hematopoietic stem cell regulatory network.
- 11:30-11:45: S26-2 Meng Zhao (Sun Yat-Sen University). Title: Bone marrow microenvironment aging.
- 11:45-12:00: S26-3 Bing Liu (Academy of Military Medical Sciences). Title: Resolving endothelial transition to hematopoietic stem cells at single-cell resolution.
- 12:00-12:15: S26-4 Jinyong Wang (Chinese Academy of Sciences). Title: T lineage reconstitution from pluripotent stem cells.
- 12:15-12:30: S26-5 Suming Huang (Penn State College of Medicine). Title: Role of lincRNA in HSC function and leukemogenesis.

Session 27: Novel actions of thyroid hormone receptors in stem cells and metabolic disease. Chairpersons: Sheue-yann Cheng (National Cancer Institute)/ Ying Hao (Chinese Academy of Sciences). Venue: Conference Room 3F-1, Yun An Auditorium (云安会堂三楼 1 号厅)

- 11:15-11:25: S27-1 Yun-Bo Shi (NICHD/NIH). Title: Epigenetic modifications in the development of intestinal stem cells.
- 11:25-11:35: S27-2 Paul M. Yen (Duke-NUS Medical School). Title: New mechanisms for thyroid hormone regulation of brown adipose tissue activity.

- 11:35-11:45: S27-3 Xiaochun Teng (China Medical University). Title: Clinical and experimental study on the effect of iron deficiency on thyroid function and thyroid autoimmunity.
- 11:45-11:55: S27-4 Victor Hsia (University of Maryland Eastern Shore). Title: Thyroid hormone mediated regulation of HSV-1 replication in human dorsal ganglia neurons.
- 11:55-12:05: S27-5 Jingjing Jiang (Fudan University). Title: miRNA-mediated mechanisms of metabolic regulation by thyroid hormone in skeletal muscle.
- 12:05-12:15: S27-6 Hao Ying (Chinese Academy of Sciences). Title: The metabolic regulation by hepatic thyroid hormone receptor: a lesson from the biological evaluation of its liver-targeted agonists.
- 12:15-12:30: S27-7 Sheue-yann Cheng (National Cancer Institute). Title: Thyroid hormone receptor beta functions as a tumor suppressor by blocking the tumor-initiating capacity of cancer stem-like cells.

12:30-14:00 Lunch

14:00-15:15 Session 28,29,30,31,32, LS32

Session 28: Molecular landscape and therapeutic opportunities in emerging castration-resistant prostate cancer (CRPC) phenotypes. Chairpersons: Hung-Ming Lam (University of Washington)/ Kexin Xu (UT Health San Antonio). Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)

- 14:00-14:15: S28-1 Hung-Ming Lam (University of Washington). Title: Emerging CRPC phenotypes and therapeutic opportunities from UW Prostate Cancer Rapid Autopsy Program.
- 14:15-14:30: S28-2 Kexin Xu (UT Health Science Center San Antonio). Title: Pharmacological inhibition of EZH2 enhances prostate cancer cell sensitivity to genotoxic insults through suppressing DNA damage repair.
- 14:30-14:45: S28-3 Jer-Tsong Hsieh (UT Southwestern Medical Center). Title: The role of oncogenic lipid kinase in neuroendocrine prostate cancer progression.
- 14:45-15:00: S28-4 Kaifu Chen (Houston Methodist Research Institute). Title: Epigenetic landscape reveals druggable driver genes for tumorigenesis.
- 15:00-15:15: S28-5 Xuesen Dong (Vancouver Prostate Centre). Title: RNA splicing during neuroendocrine prostate cancer progression.

Session 29: Understanding and targeting inflammation in cancer progression and recurrence. Chairpersons: Xiangwei Wu (MD Anderson Cancer Center)/ Ruiwen Zhang (University of Houston). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)

- 14:00-14:10: S29-1 Xiangwei Wu (MD Anderson Cancer Center). Title: Acute inflammation and stress as risk factors for lung cancer recurrence.
- 14:10-14:25: S29-2 Ruiwen Zhang (University of Houston). Title: Targeting Inflammation and Oncogene for Pancreatic Cancer Therapy.
- 14:25-14:35: S29-3 Zhu-Min Yuan (Harvard T.H. Chan School of Public Health). Title: A novel epigenetic mechanism behind p53-dependent tissue sensitivity to DNA damage.
- 14:35-14:50: S29-4 Fen Wang (Texas A&M University). Title: Ectopic fgf signaling promotes inflammation in the tumor microenvironment.
- 14:50-15:00: S29-5 Paul J. Chiao (MD Anderson Cancer Center). Title: TAK-ing aim at inflammation: The emerging role of MAP3K7 in pancreatic cancer development.
- 15:00-15:15: S29-6 Wanjun Chen (NIDCR, NIH). Title: Immunotherapy for cancer and autoimmune disease: Treg is a key target.

Session 30: Ubiquitin Family, Proteasome & Diseases. Chairpersons: Jianping Jin (Zhejiang University)/ Xiaodong Cheng (University of Texas Health Science Center at Houston). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

- 14:00-14:15: S30-1 Jianping Jin (Zhejiang University). Title: Ubiquitylation and cancer signaling pathways
- 14:15-14:30: S30-2 Xing Guo (Zhejiang University). Title: Regulation of the 26S Proteasome in Health and Disease.
- 14:30-14:45: S30-3 Feng Rao (Southern University of Science and Technology). Title: A glucose-induced protein degradation axis in control of insulin secretion, obesity and diabetes.
- 14:45-15:00: S30-4 Xiaobo Qiu (Beijing Normal University). Title: Protein degradation by PA200-proteasome.
- 15:00-15:15: S30-5 Zhijie Chang (Tsinghua University). Title: CHIP regulates the stability of Pkm2 during tumorigenesis in colon cancers.

Session 31: Emerging cancer therapy-DNA damage response and repair. Chairpersons: Shan Zha (Columbia University)/ Li Lan (Harvard University). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 14:00-14:15: S31-1 Lee Zou (Harvard University). Title: Targeting the ATR checkpoint in cancer therapy.
- 14:15-14:30: S31-2 Li Lan (Harvard University). Title: RNA modifications in DNA damage repair and cancer.

14:30-14:45: S31-3 Zhongsheng You (Washington University). Title: A novel role of Ca²⁺ in genome protection.

14:45-15:00: S31-4 Shan Zha (Columbia University). Title: Mouse models with catalytic inactive DNA damage response kinases.

15:00-15:15: S31-5 Feng Li (Wuhan University). Title: Histone demethylation after damage and cancer.

Session 32: Metabolic and epigenetic regulations in blood progenitors and disorders. Chairpersons: Yang Xia (University of Texas Health Science Center)/ Linzhao Cheng (Johns Hopkins University). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

14:00-14:15: S32-1 Gang Huang (Cincinnati Children's Hospital Medical Center). Title: The Yin-Yang of Myelodysplastic Syndromes.

14:15-14:30: S32-2 Yang Xia (University of Texas Health Science Center). Title: Metabolomic Reprogramming promotes erythroid commitment in stress erythropoiesis.

14:30-14:45: S32-3 Xinyang Zhao (The University of Alabama). Title: PRMT1-controlled metabolic signaling in hematological malignancies.

14:45-15:00: S32-4 Jing Liu (Central South University). Title: Novel insights into GATA1 regulation at post-translational level in human erythropoiesis.

15:00-15:15: S32-5 Jun Lu (Yale University). Title: Clonal hematopoiesis and innate immune signaling.

Session LS32: Drug development. Chairpersons: Hong-Shuo Sun (University of Toronto)/ Guanlei Wang (Sun Yet-Sen University). Venue: Conference Room 3F-1, Yun An Auditorium (云安会堂三楼 1 号厅)

14:00-14:15: LS32-1 Heyu Ni (Keenan Research Centre for Biomedical Research of St. Michael's Hospital). Title: Thrombosis and Stroke - Novel Mechanisms and Therapies.

14:15-14:30: LS32-2 Guanlei Wang (Sun Yet-Sen University). Title: CFTR, a potential therapeutic target in vascular remodeling.

14:30-14:45: LS32-3 Mingyao Liu (University of Health Network). Title: Drug discovery and delivery pipeline in lung transplantation.

14:45-15:00: LS32-4 Jeffrey Henderson (Leslie Dan Faculty of Pharmacy, University of Toronto). Title: New cell death pathway interactions reducing cortical injury in stroke.

15:00-15:10: LS32-5 Hong-Shuo Sun (University of Toronto). Title: Ion channels in neuroprotection and drug development.

15:15-15:25	10 minutes break
15:25-16:40	Session 33-37
<p>Session 33: Under the Gas Pedal: Signaling Perspective of Cancer Metabolism. Chairpersons: David Ann (Beckman Research Institute)/ Jing Chen (Emory University). Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)</p> <p>15:25-15:40: S33-1 Zhimin Lu (MD Anderson Cancer Center). Title: Nonmetallic function of metabolic enzymes in cancer development.</p> <p>15:40-15:55: S33-2 Jing Chen (Emory University). Title: Diet, Metabolism and Cancer.</p> <p>15:55-16:10: S33-3 David Ann (City of Hope). A Non-Canonical Metabolic Function of Circadian Clock Gene in Obesity.</p> <p>16:10-16:25: S33-4 Hsing-Jien Kung (Taipei Medical University). Title: Targeting KDM8, an AR coactivator and metabolic regulator, in prostate cancer.</p> <p>16:25-16:40: S33-5 Wen-Ching Wang (National Tsing Hua University). Title: targeting KDM4, an oncogenic demethylase.</p>	
<p>Session 34: Ubiquitin Signaling Pathways in Cancer Biology. Chairpersons: Wenyi Wei (Harvard Medical School)/ Hui-Kuan Lin (Wake Forest University). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)</p> <p>15:25-15:40: S34-1 Ruey-Hwa Chen (Academia Sinica). Title: BIK ubiquitination controls life-death fate of cellular stress responses and anti-tumor ac.</p> <p>15:40-15:55: S34-2 Hanqiu Zheng (Tsinghua University). Title: A dual luciferase-based, genome-wide siRNA library screening identifies a novel E3 ubiquitin ligase for SNAI2 degradation in breast cancer metastasis.</p> <p>15:55-16:10: S34-3 Pengda Liu (UNC-Chapel Hill). Title: Ubiquitin-dependent function of mTOR signaling.</p> <p>16:10-16:25: S34-4 Qing Zhang (UNC-Chapel Hill). Title: Studying VHL Ubiquitination Signaling in Kidney Cancer.</p> <p>16:25-16:40: S34-5 Lijun Jia (Shanghai University of Traditional Chinese Medicine). Title: Regulation of autophagic cell death by FBXW5 E3 ubiquitin ligase.</p>	
<p>Session 35: Stem cells inflammation and disease. Chairpersons: Yufang Shi (Soochow University)/ Lixin Wei (Naval Medical University). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)</p>	

- 15:25-15:40: S35-1 Ping Hu (Chinese Academy of Sciences). Title: Immune cells serve as critical players in muscle regeneration.
- 15:40-15:55: S35-2 Renhe Xu (University of Macau). Title: Human ESC-derived MSCs promote wound healing.
- 15:55-16:10: S35-3 Jun Xu (Tongji University). Title: From bench to bed: the basic research and the translational study of adipocyte-derived stem cells.
- 16:10-16:25: S35-4 Ying Wang (Chinese Academy of Sciences). Title: Immunomodulation of mesenchymal stem cells: Pathological and Therapeutic Implications.
- 16:25-16:40: S35-5 Yufang Shi (Soochow University). Title: Mesenchymal stem cells and inflammation.

Session 36: DNA Repair and Personalized Cancer Therapy. Chairpersons: Fen Xia (University of Arkansas)/ Zhenkun Lou (Developmental Therapeutics Mayo Clinic). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 15:25-15:40: S36-1 Junjie Chen (MD Anderson Cancer Center). Title: Targeting DNA damage repair in cancer therapy.
- 15:40-15:55: S36-2 Guomin Li (UT Southwestern Medical Center). Title: Novel mechanism underlying mismatch repair deficiency-triggered immune-response.
- 15:55-16:10: S36-3 Jian Yuan (Tongji University). Title: The role of homologous recombination in chemoresistance.
- 16:10-16:25: S36-4 Fen Xia (University of Arkansas). Title: Tackling tumor resistance to PARPi-induced synthetic lethality.
- 16:25-16:40: S36-5 Zhenkun Lou (Developmental Therapeutics Mayo Clinic). Title: DNA-Protein Crosslink and Cancer Therapy.

Session 37: Neuroscience, aging and neurodegenerative diseases. Chairpersons: Zhong-Ping Feng (University of Toronto) / Meihua Bao (Changsha Medical University). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

- 15:25-15:40: S37-1 Zhong-Ping Feng (University of Toronto). Title: Calcium-dependent mechanisms in neurodevelopment.
- 15:40-15:55: S37-2 Wenhua Zheng (University of Macau). Title: The neuronal protective effect of artemisinin and its implication in the treatment of Alzheimer Disease.
- 15:55-16:10: S37-3 Baohua Liu (University of Toronto Mississauga). Title: Circuit Mechanisms Underlying the Cortical Control of Innate Reflexes.

16:10-16:25: S37-4 Meihua Bao (Changsha Medical University). Title: Effects of noncoding RNAs on endothelial functions.

16:25-16:40: S37-5 Xiangnan Zhang (Zhejiang University). Title: Somatic autophagy of axonal mitochondria in ischemic neurons.

17:00-18:30 **Poster Session II / Publication Forum with Editors**

17:00-18:30: Poster Session II.

Venue: The 1st Floor Exhibition Hall A, YunAn Auditorium (云安会堂一楼A展厅)

17:00-18:30: Publication Forum with Editors of Cell/Science/Cell Research, **Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼1号厅)**

Moderator: Linheng Li

Panel speakers:

John Pham: 20 minutes

Beverly Pumell: 20 minutes

Dangsheng Li: 20 minutes

Followed by 30 minutes Panel Discussion with John Pham, Beverly Pumell, Dangsheng Li, Haifan Lin, Hongkui Deng, Chuan He and Xi He.

18:30-20:00

VIP Dinner

Place: 3rd Floor, VIP Building (贵宾楼三楼宴会厅)

20:00-

Watch Performance in The 3rd Floor Lecture Hall, Yun An Auditorium (云安会堂三楼报告厅)

July 27, 2019

8:00-9:20

**Award / Plenary lecture Venue: The 3rd Floor Lecture Hall,
Yun An Auditorium (云安会堂三楼报告厅)**

8:00-8:45: Presidential Award Lecture

James (Zhijian) Chen (University of Texas Southwestern Medical Center): The Dark Side of DNA – How DNA Triggers Immune and Autoimmune Responses

Introduction by Paul Liu (SCBA)

8:45-9:20: KT Jeang Memorial lecture

David Ho (The Rockefeller University): Engineering antibodies to combat HIV/AIDS

Introduction by Jing-Hsiung James Ou (University of Southern California)

9:00-17:00

**Special bioscience educational class for high/middle school students.
Chairpersons: Huanming Yang.**

**Please refer to the separate itinerary in Chinese, which is included
after this Main Program.**

9:20-9:40

20 minutes break

9:40-10:55

Session 38-42

**Session 38: Forty Years of p53: Tumor Suppression and Beyond. Chairpersons:
Zhaohui Feng (Rutgers University)/ Wenwei Hu (Rutgers University). Venue:
Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)**

9:40-9:55: S38-1 Peng Jiang (Tsinghua University). TBA

9:55-10:10: S38-2 Hua Lu (Tulane University School of Medicine). Title: A new p63 target involved in regulation of liver lipid metabolism.

10:10-10:25: S38-3 Jian Yu (University of Pittsburgh). Title: Helping p53 to better protect stem cells and life.

10:25-10:40: S38-4 Wenwei Hu (Rutgers University). Title: Regulation of gain-of-function mutant p53 in cancer progression and treatment.

10:40-10:55: S38-5 Zhaohui Feng (Rutgers University). Title: Tumor suppressor p53 in metabolism.

Session 39: Regulation of early embryo development. Chairpersons: Jie Qiao (Peking University) / Shaorong Gao (Tongji University). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)

- 9:40-9:55: S39-1 Jiang Liu (Beijing Institute of Genomics, CAS). Reprogramming of epigenetic landscape during embryogenesis.
- 9:55-10:10: S39-2 Hengyu Fan (Zhejiang University). Title: Regulation of maternal mRNA translation and decay during oocyte-to-embryo transition.
- 10:10-10:25: S39-3 Qi Chen (University of California, Riverside). Title: Sperm RNAs and RNA modifications: how many secrets in programming offspring phenotypes?
- 10:25-10:40: S39-4 Youqiang Su (Nanjing Medical University). Title: Toward making a good egg: Sculpting the transcriptome of mouse oocytes by MARF1.
- 10:40-10:55: S39-5 Li Shen (Zhejiang University). Title: Epigenomic and epitranscriptomic regulation in totipotent cells.

Session 40: Genetic and epigenetic basis of diseases. Chairpersons: Zhiyuan Shen (Rutgers University) / Jun Huang (Zhejiang University). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

- 9:40-9:55: S40-1 Jun Huang (Zhejiang University). Title: Protein Acetylation and Human diseases.
- 9:55-10:10: S40-2 Chuan-Yuan Li (Duke University). Title: Novel roles of DNA damage response in stem cells.
- 10:10-10:25: S40-3 Caixia Guo (Chinese Academy of Sciences Beijing). Title: Regulation of translesion DNA synthesis and its implication in genotoxic therapy.
- 10:25-10:40: S40-4 Yanbin Zhang (University of Miami). Title: An unexpected role of FANCA in genome instability.
- 10:40-10:55: S40-5 Dong Fang (Zhejiang University). Title: Reprogramming the epigenome of tumors with oncohistones H3.3K36M and H3.3K27M.

Session 41: Sex Chromosomes, Evolution and Reproductive Health. Chairpersons: Yun-Fai Chris Lau (University of California, San Francisco)/ Rongjia Zhou (Wuhan University). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 9:40-9:55: S41-1 Ji Wu (Shanghai Jiao Tong University). Title: Epigenetic characteristic of FGSC (female germline stem cells) development.
- 9:55-10:10: S41-2 Tatsuo Kido (University of California, San Francisco). Title: Roles of the Y chromosome Genes in Human Cancers.

- 10:10-10:25: S41-3 Wen Wang (Chinese Academy of Sciences). Title: Evolution of neo-sex chromosomes in mammals.
- 10:25-10:40: S41-4 Wansheng Liu (Pennsylvania State University). Title: Mammalian Sex Chromosome Structure, Gene Content, and Function in Male Fertility.
- 10:40-10:55: S41-5 Rongjia Zhou (Wuhan University). Title: Proto-sex chromosomes and their genes in sexual differentiation.

**Session 42: Emerging viral pathogens and therapeutics. Chairpersons: Zheng-Li Shi (Chinese Academy of Sciences) / Li-Jun RONG (University of Illinois at Chicago).
Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)**

- 9:40-9:55: S42-1 Dong-Yan JIN (Hong Kong University). Title: MAVS-suppressing activity of influenza A (H7N9) virus PB1-F2 protein.
- 9:55-10:10: S42-2 Li-Jun RONG (University of Illinois at Chicago). Title: Small molecules as entry inhibitors of filoviruses and chemical probes.
- 10:10-10:25: S42-3 Pei-Yong Shi (University of Texas Medical Branch). Title: Zika virus: emergence, diagnosis, and vaccine.
- 10:25-10:40: S42-4 Zheng-Li SHI (Chinese Academy of Sciences). Title: Pathogenesis of bat SARS- and MERS-related coronaviruses.
- 10:40-10:55: S42-5 Tian-Lei YING (Fudan University). Title: Germline-like human monoclonal antibodies for the treatment of infectious diseases.

10:55-11:15	20 minutes break
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11:15-12:30	Session 43-47
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Session 43: Toward precise human genome edition. Chairperson: Wensheng Wei (Peking University). Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1 号厅)

- 11:15-11:30: S43-1 Linzhao Cheng (Johns Hopkins University). Title: What have we learned and what is next in precision human genome editing?
- 11:30-11:50: S43-2 Jun-Jiu Huang (Sun Yat-Sen University). Title: Basic research on human genome editing: hope or hype?
- 11:50-12:10: S43-3 Hui Yang (Shanghai Institute of Neuroscience, CAS). Title: Genome editing and gene therapies.
- 12:10-12:30: S43-4 Wensheng Wei (Peking University). Title: Gene therapies via leveraging endogenous editing mechanisms.

Session 44: Viruses and Human Cancer. Chairpersons: Jianming Hu (Penn State University) / Ke Lan (Wuhan University). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2 号厅)

- 11:15-11:30: S44-1 James Ou (University of Southern California). Title: Mechanism of hepatitis C virus induced hepatocarcinogenesis.
- 11:30-11:45: S44-2 Haitao Guo (Indiana University). Title: Hepatitis B virus and liver cancer.
- 11:45-12:00: S44-3 Xuefeng Liu (Georgetown University). Title: Translation of papillomavirus studies to living biobanks, disease modeling, and precision medicine.
- 12:00-12:15: S44-4 Pinghui Feng (University of Southern California). Title: Kaposi's sarcoma associated herpesvirus.
- 12:15-12:30: S44-5 Musheng Zeng (Sun Yat-Sen University). Title: Epstein-Barr virus and human cancer.

Session 45: Mechanisms of Genomic Instability Syndromes: From Genetics To Genomics. Chairpersons: Xiaochun Yu (Beckman Research Institute) / Xiaohua Wu (The Scripps Research Institute). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

- 11:15-11:30: S45-1 Binghui Shen (Beckman Research Institute). Title: Genetic factors that regulate dynamics of the genomic secondary structures during replication and repair.
- 11:30-11:45: S45-2 Xingzhi Xu (Shenzhen University). Title: UFMylation modulates genomic stability.
- 11:45-12:00: S45-3 Qing Li (Peking University). Title: New insights to chromatin replication.
- 12:00-12:15: S45-4 Qiao Feng (University of California, Irvine). Title: Molecular mechanism of telomeropathies.
- 12:15-12:30: S45-5 Lin-Yu Lu (Zhejiang University). Title: Role of BRCA1 in the maintenance of genomic stability.

Session 46: The roles of circular RNAs in disease development. Chairpersons: Burton B Yang (University of Toronto) / Hansen Housheng He (University Health Network). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

- 11:15-11:30: S46-1 Hansen Housheng He (University Health Network). Title: Wide spread and functional RNA circularization in cancer.
- 11:30-11:45: S46-2 Nu Zhang (Sun Yat-sen University). Title: The effects of circular RNA translated peptide on glioblastoma development.

	<p>11:45-12:00: S46-3 Honghong Yao (Southeast University). Title: Circular RNA and Neuroinflammation---Implications for stroke therapy.</p> <p>12:00-12:15: S46-4 Junjie Xiao (Shanghai University). Title: Circular RNAs in exercise induced physiological hypertrophy.</p> <p>12:15-12:30: S46-5 Burton B Yang (University of Toronto). Title: The roles of circular RNAs in ventricular remodeling.</p>
<p>Session 47: Ubiquitylation and Cancer Therapy. Chairpersons: Yi Sun (Zhejiang University)/ Shaomeng Wang (University of Michigan). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)</p> <p>11:15-11:30: S47-1 Ping Wang (Tongji University). Title: UPS-mediated Regulation of the Stability of Stem Cell Factor Nanog.</p> <p>11:30-11:45: S47-2 Pengbo Zhou (Cornell University). Title: Dissecting the functional complexity of cellular proteins by Protein Knockout.</p> <p>11:45-12:00: S47-3 Zhen-Qiang Pan (Icahn School of Medicine at Mount Sinai). Title: Regulate Cullin-RING E3 Ubiquitin Ligases by Small Molecule Modulators.</p> <p>12:00-12:15: S47-4 Yi Sun (Zhejiang University) Title: LSD1 destabilizes FBXW7 and abrogates FBXW7 functions independent of its demethylase activity.</p> <p>12:15-12:30: S47-5 Dan Ye (Fudan University). Title: Matabolites in epigenetic control and cancer.</p>	
12:30-14:00	Lunch
14:00-14:35	<p>Dr. Tsai-Fan Yu Legacy Lecture, Venue: The 3rd Floor Lecture Hall, Yun An Auditorium (云安会堂三楼报告厅)</p> <p>Introduction of Dr. Tsai Fan Yu's legacy by Hua Yu</p> <p>Chen Dong (Tsinghua University School of Medicine): T cells in inflammation and cancer- better understanding, better translation</p> <p>Introduction by Pan Zheng (SCBA Treasurer; University of Maryland School of Medicine)</p>
14:35-15:05	<p>Kenneth Fong Young Investigator Award Lecture, Venue: The 3rd Floor Lecture Hall, Yun An Auditorium (云安会堂三楼报告厅)</p>

	<p>Xin Chen (Johns Hopkins University): Breaking asymmetric histone inheritance.</p> <p>Introduction by Keji Zhao (National Institutes of Health)</p>
15:05-15:25	20 minutes break
15:25-16:40	Session 48-52
<p>Session 48: Stemness and Cancer Development. Chairpersons: Peiqing Sun (Wake Forest University) / Tsung-Hsien Chuang (National Health Research Center).</p> <p>Venue: Conference Room 4F-1, Yun An Auditorium (云安会堂四楼 1号厅)</p> <p>15:25-15:37: S48-1 Peiqing Sun (Wake Forest University). Title: Regulation of cancer stemness properties by the p38 MAPK pathway.</p> <p>15:37-15:49: S48-2 Hui-Wen Lo (Wake Forest University). Title: Role of truncated glioma-associated oncogene homolog 1 (tGLI1) in cancer stem cells and tumor microenvironment.</p> <p>15:49-16:01: S48-3 Suling Liu (Fudan University). Title: Regulation of breast cancer stem cells and its clinical implications.</p> <p>16:01-16:13: S48-4 Jeng-Fan Lo (National Yang-Ming University). Title: Stress and Cancer Stemness on Tumorigenesis.</p> <p>16:13-16:25: S48-5 Tsung-Hsien Chuang (National Health Research Center). Title: Regulation of a positive feedback loop between inflammation and stemness in cancer cells by ubiquitination and deubiquitination.</p> <p>16:25-16:37: S48-6 Chi-Ying Huang (National Yang Ming University). Title: Drug repurposing of cancer stem cell inhibitors: from big data to therapeutics.</p>	
<p>Session 49: Precision Cancer Medicine: Novel Mechanisms, Diagnosis and Therapeutics. Chairpersons: Jie Wu (University of Oklahoma)/ Jin-Xin Bei (Sun Yet-Sen University). Venue: Conference Room 4F-2, Yun An Auditorium (云安会堂四楼 2号厅)</p> <p>15:25-15:40: S49-1 Shimei Zhuang (Sun Yet-sen University). Title: Vessels that encapsulate tumor clusters (VETC) in HCC metastasis and therapeutic response.</p> <p>15:40-15:55: S49-2 Jin-Xin Bei (Sun Yat-sen University). Title: Genetic study on NK/T cell lymphoma.</p> <p>15:55-16:10: S49-3 Wei Yu (Fudan University). Title: Deacetylation of Serine Hydroxymethyl-transferase 2 by SIRT3 promotes Colorectal Carcinogenesis.</p>	

16:10-16:25: S49-4 Yi Qiu (University of Florida). Title: Lysine demethylase LSD1 promotes EMT and chemoresistance in colon cancer.

16:25-16:40: S49-5 Jie Wu (University of Oklahoma). Title: RET-aberrant cancers: targeted therapy and resistance mechanisms.

Session 50: Sexual dimorphism in development and cancer. Chairpersons: Xue (Sean) Li (Boston Children's Hospital)/ Han Liang (The University of Texas). Venue: Conference Room 2F-1, Yun An Auditorium (云安会堂二楼 1 号厅)

15:25-15:37: S50-1 Xue (Sean) Li (Boston Children's Hospital). Title: Enigmatic sex differences in cancer.

15:37-15:49: S50-2 戚华宇 (中科院广州生物医药与健康研究院). Title: Spermatogenesis.

15:49-16:01: S50-3 葛仁山 (温州医学院). Title: The dimorphic gonadal differentiation.

16:01-16:13: S50-4 Charles Guo (Yunnan University). Title: Sexual dimorphism of the lower urinary tract development.

16:13-16:25: S50-5 ShuYuan Yeh (University of Rochester). Title: Biasing roles of the sex hormones in bladder cancer.

16:25-16:37: S50-6 Han Liang (The University of Texas). Title: Comprehensive analysis of the sex-specific molecular differences in cancer.

Session 51: Cancer stem cells: Impact on therapy. Chairpersons: Weihua Zhang (University of Houston) / Xiuwu Bian (Third Military Medical University). Venue: Conference Room 2F-7, Yun An Auditorium (云安会堂二楼 7 号厅)

15:25-15:40: S51-1 Weihua Zhang (University of Houston). Title: Regulation of cancer metabolism and organ specific metastasis.

15:40-15:55: S51-2 Wei Wang (University of Houston). Title: p53-MDM2 axis and therapeutic implication.

15:55-16:10: S51-3 Qi-En Wang (Ohio State University). Title: ALDH1A1 contributes to PARP inhibitor resistance in ovarian cancer via enhancing DNA repair.

16:10-16:25: S51-4 Shi-Yong Sun (Emory University). Title: EGFR and drug resistance in lung cancer.

16:25-16:40: S51-5 Peng Huang (Sun Yet-Sen University). Title: Mitochondria metabolic regulation and cancer stem cells.

Session 52: Cell Biology. Chairpersons: Chonglin Yang (Institute of Genetics and Developmental Biology, CAS)/ Zhuo Du (Institute of Genetics and Developmental

Biology, CAS). Venue: Conference Room 3F-10, Yun An Auditorium (云安会堂三楼 10 号厅)

15:25-15:40: S52-1 Yu Lan (Jinan University). Title: Decoding the lncRNA pivotal for HSC emergence at single cell resolution.

15:40-15:55: S52-2 Wei Wan (Zhejiang University). Title: Identification of novel mTORC1 substrates in autophagy.

15:55-16:10: S52-3 Zhuo Du (Institute of Genetics and Developmental Biology, CAS). Title: Defining a molecular roadmap of C. elegans embryos: every cell, every minute.

16:10-16:25: S52-4 葛亮 (Tsinghua University). Title: A membrane translocation process for unconventional secretion of IL-1beta.

16:25-16:40: S52-5 Hao Yin (Wuhan University). Title: Therapeutic genome editing: from CRISPR/Cas9 to base editing.

16:40-17:15	Plenary lecture, Venue: 云安会堂 3F 报告厅 Zihe Rao (Tsinghua University): Shed light on the biomachineries in mycobacterium tuberculosis Introduction by Ke-Qin Zhang (Yunnan University)
17:15-17:45	Industrial/Technological Lectures, Venue: 云安会堂 3F 报告厅 Session Chair: Ke-Qin Zhang (Yunnan University)
17:15-17:30	Roy Tan (MGI Americas Inc. and Complete Genomics Inc.) Title: Advancement of Sequencing Technology for DNBSEQ.
17:30-17:45	Charlie Sheen (Promega Corporation) Title: Endogenous Biology, HiBiT/CRISPR and NanoBiT [®] Immunoassay
18:00-	Dinner

July 28, 2019

Venue: 云安会堂 3F 报告厅

8:30-9:15	<p>Keynote Speech:</p> <p>Lieping Chen (Yale University): Perspectives in Cancer Immunotherapy</p> <p>Introduction by Dihua Yu (M.D. Anderson Cancer center)</p>
9:15-9:50	<p>Plenary Lecture:</p> <p>Huanming Yang (BGI-China): Genomics & Bioinformatics</p> <p>Introduction by Jiayou Chu (China Academy of Chinese Medical Sciences)</p>
9:50-10:00	SCBA Election Announcement
10:00-10:20	20 minutes break
10:20-11:50	<p>Presidential Human Genome Editing Forum: Human genome editing, promises and challenges</p> <p>Speakers: Matthew Porteus, Xiaomei Zhai</p> <p>Panel discussion: Paul Liu, Linzhao Cheng, Wensheng Wei, Huanming Yang</p>
11:50-12:20	Announcement and Ceremony of Poster Awards and Travel Awards; Acknowledgements
12:20-12:40	SCBA New President (Paul Liu/Hui Zheng)
12:40-	Lunch
14:00-	Departure

科普活动 (Bioscience Education) 日程安排

地点:贵宾楼三楼宴会厅

2019年7月27日

- 9:00-9:15** 到达会场, 开幕式, 观看开场视频
- 9:15-10:15** 主题演讲: 院士给你讲生命科学发展史
- 10:15-11:30** 生物课堂: 华人生物学家给你上一堂美国的生物课
课程将在互联网上全程直播, 课程中学生可与生物学家互动问答
- 11:30-13:00** 午餐及午休
- 13:00-13:15** 参观大会会场, 感受会场氛围
- 13:15-13:30** 小型产品发布会 (实验包)
- 13:30-14:30** 实验一: 初识基因组, 了解生命奥秘的遗传物质
1. 观察细胞及染色体结构: 洋葱根尖细胞有丝分裂显微观察;
 2. DNA 的提取及扩增: 唾液DNA 提取及PCR 扩增、电泳分离;
 3. 个人特质类DNA 位点检测: 咖啡耐受、头发卷曲、运动特质等;
- 14:30-15:45** 实验二: 邂逅代谢组, 聆听生命乐章的丰富曲调
1. 叶片里的彩虹: 叶绿素提取及其滤纸层析分离观察;
 2. 看不见的生长素: 植物向光性实验与生长素质谱检测;
 3. 谁才是VC 之王: 水果中维生素C 含量的质谱检测;
 4. 算算“喝”了多少糖: 日常饮料中糖分含量的质谱检测;
 5. 塑化剂就在你身边: 塑料制品相关的塑化剂质谱检测;
 6. 香烟不香: 抽烟人士头发中尼古丁\可替宁的质谱检测;
- 15:45-16:00** 实验成果评比及颁奖
专家评委打分, 前3 名可获通行证 (全国10 家签约实验室参观、实习资格) 及实验包, 第4-6 名可获实验包
- 16:00-16:30** 参与学生采访
- 16:30-17:00** 与院士、专家交流合影留念