ION CHANNEL RETREAT 2016

Share Knowledge. Exchange Ideas. Establish Partnerships

November 9th, Wednesday					
Start	**End**		**Speaker**	**Institution**	**Title**
7:30	8:30	**Registration**			
8:30	8:45	**Opening Remarks**	**Yan Xu/Sophia/Yuklam Lo**		
8:45	9:25	Keynote Presentation	Gong Chen	Distinguished Chair Professor, The Pennsylvania State University	BRAIN REPAIR: REVERSING GLIAL SCAR THROUGH IN VIVO REPROGRAMMING
9:25	10:05	Keynote Presentation	Duanqing Pei	President of Guangzhou Institute of Biomedicine and Health, GIBH	The Mechanism and Strategy of iPSCs reprograming
10:05	10:35	**Coffee Break**			
10:35	10:40	**Chair**	**Yongjian Liu**	**Nanjing Medical University**	
10:40	11:00	PM Session：Cancer care and treatment (1)	Qiming Wang	Associate Professor & Vice Chair, Regulatory Affairs, University of Pittsburgh School of Medicine	Targeting a novel androgen repressed pathway in prostate cancer therapy
11:00	11:20		Dexi Liu	Professor and Department Head of Pharmacology and Biomedicine, University of Georgia	Hepatic tumorigenesis by genomic editing using CRISPR/Cas9 and sleeping beauty transponson systems
11:20	11:40		Yu Jiang	Associate Professor of Chemistry and Pharmacology, University of Pittsburgh	Cilium and Tumor Suppression
11:40	12:00		Annarosa Arcangeli	Professor in Department of Experimental and Clinical Medicine, Section of Internal Medicine, University of Florence, Italy	A novel perspective in personalized medicine: exploiting ion channels for cancer patients' stratification
12:00	13:00	**Lunch**			

Start	End		Speaker	Institution	Title
13:15	13:20	**Chair**	**Hailin Zhang**	**Hebei Medical University**	
13:20	13:40	ICR Session: Ion channels as Disease Targets	Amal Kanti Bera	Professor of Biotechnology, Indian Institute of Technology Madras.	Phytochemical for targeting acid sensing ion channels
13:40	14:00		Chun Lin	Head of Department of Physiology and Pathophysiology, Laboratory of Pain Research, Fujian Medical University	Peripheral HCN channels participate in chronic visceral hypersensitivity
14:00	14:20		Zhiyuan Li	GIBH	Investigation of Nav1.1 Mutation Effect and Epileptic Mechanism using Patient iPSCs
14:20	14:40		Lishuang Cao	PhD in Physiology, University of Leuven. Electrophysiology group leader & Program lead of GSK, China	From iPSC to clinic, a translational study of phenotype and pharmacology in primary erythromelalgia
14:40	15:10	**Coffee Break**			
15:10	15:15	**Chair**	**Xingjie Liang**	**National Institute for Nanotechnology**	
15:15	15:35	PM Session: Micro/Nano biotechnology	Xue Xue	National Institute for Nanotechnology	Nanomedicine: A new approach for treatment of drug addiction
15:35	15:55		Xingjie Liang	Deputy Director of Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety, National Institute for Nanotechnology	Nanotechnology Developed for Tumor Precision Treatment
15:55	16:15		Xiao Xiao	Distinguished professor of Gene therapy, University of North Carolina at Chapel Hill	Tissue- and cell-targeted gene delivery and therapy for precision medicine
16:15	16:20	**Chair**	**Allan Zhao**	**South China University of Technology**	
16:20	16:40	ICR Session: Cardiac Safety and Pharmacology	Yuko Sekino	Head in Division of Pharmacology, National Intitute of Health sciences, Toyko, Japan	Validation study for the possible usage of human iPS-derived cardiomyocytes for the safety pharmacology : JiCSA activity
16:40	17:00		Weimin Pei	Chief Scientific Officer(CSO) and Vice President, ICE Bioscience Inc.	Moving from hERG to CiPA - Evolution of preclinical cardiac assessment and ICE's practices
17:00	17:20		Ming Qi	Professor of Pathology and Pathophysiology, Zhejiang University School of Medicine	Cardiac arrhythmias and neuromuscular channelopathies
17:20	17:40		Haoyu Zeng	Principal Scientist in the Department of Safety and Exploratory Pharmacology, Merck	Evaluating Acute and Long-Term Drug-Induced Proarrhythmic, and Other Cardiac-Related Risk Using hiPSC-Cardiomyocytes
17:40	18:00		Takashi Yoshinaga	Senior Principal Scientist, Eisai Co., Ltd.	Comprehensive in vitro and in silico torsadogenic risk assessment using multi ion channel data and multi-scale human heart simulator.

November 10th, Thursday					
Start	**End**		**Speaker**	**Institution**	**Title**
8:00	8:30	**Registration**			
8:30	8:35	**Opening Remarks**	**Yan Xu**	**University of Pittsburgh**	
8:35	9:25	Keynote Presentation	Bill Catterall	Professor and Chair of Pharmacology, University of Washington	Structure, Function, and Pharmacology of Sodium and Calcium Channels at Atomic Resolution
9:25	10:05	Keynote Presentation	Tao Cheng	Head of the State Key Laboratory of Experimental Hematology, and Chairman of Department of Stem Cell and Regenerative Medicine at the Chinese Academy of Medical Sciences & Peking Union Medical College	'Waterloo': when normal blood cells meet leukemia
10:05	10:35	**Coffee Break**			
10:35	11:15	Keynote Presentation	Peijun Zhang	PhD, Department of Structural Biology University of Pittsburgh,	From Blobs to Atoms: Emerging High Resolution CryoEM of Macromolecular Assemblies
11:15	11:55	Keynote Presentation	William Wei-Guo Jia	Associate Professor of Neurosurgery, University of British Columbia	Oncolytic virotherapy as a better immunotherapy for cancer
11:55	12:55	**Lunch**			

Start	End		Speaker	Institution	Title
13:10	13:15	**Chair**	**Joseph W.O. Tam**	**DiagCor Bioscience Inc Ltd**	
13:15	13:35	PM Session: Genomics/Molecular Diagnosis and Application(1)	TBA	Aurora	TBA
13:35	13:55		Joseph Tam	CEO of DiagCor Bioscience Inc Ltd	The Paradigm Shift of Laboratory Test: NGS vs Precision Medicine
13:55	14:15		Shen Qu	Director of Shanghai Tenth People's Hospital of Tongji University	Individualized diagnosis of obesity based on metabolism
14:15	14:35		Yifan Dai	Distinguished Professor, Nanjing Medical University	Producing Personalized Human Organs in Pigs
14:35	14:55		Xingfei Deng	Founder, President and CTO, Ardent BioMed Inc.	Microfluidics and Next Generation Sequencing in the molecular diagnosis of cardiovascular diseases
14:55	15:25	**Coffee Break**			
15:25	15:40	**Chair**	**Chris Mathes**	**Icagen**	ion channel and T2L experts
15:40	16:00	ICR Session: Ion channels as Pain Targets (1)	Nikita Gamper	Professor of Neuroscience in School of Biomedical Sciences, University of Leeds, UK	Substance P: an odd player in a painful game
16:00	16:20		Guangyin Xu	Vice Dean of institute of Neuroscience, Distinguished Professor, Laboratory of Translational Pain Medicine, Institute of Neuroscience, Soochow University, Suzhou	Targeting purinergic P2X receptor signaling for chronic pain therapy
16:20	16:40		Xiaona Du	Professor of Cell Biology, Neuroscience, and Physiology, Hebei Medical University	Peripheral somatosensory ganglia as a novel target for pain relief
16:40	17:00		Li Zhang	Medical Officer, Laboratory for Integrative Neuroscience, NIAAA/NIH	Glycine receptors contribute to cannabinoid and opioid action in the brain
17:00	17:15	**Chair**	**Bill Catterall**	**University of Washington**	
17:15	17:35	ICR Session: Ion Channel Structure,Gating and Permeation	Pei Tang	Professor of Anesthesiology, Pharmacology & Chemical Biology, and Computational and Systems Biology, University of Pittsburgh School of Medicine	New insights into structures of pentameric ligand-gated ion channels
17:35	17:55		Hailong An	Deputy director of molecular Biophysics, Institute of Biophysics, Hebei University of Technology	Molecular mechanism of TMEM16A calcium dependent gating and its targeted drug screening
18:15	19:00	Shuttle Bus			
19:00	20:00	Dinner			
20:30	22:00	Boat Cruise			

November 11th, Friday					
Start	**End**		**Speaker**	**Institution**	**Title**
7:55	8:25	**Registration**			
8:25	8:30	**Opening Remarks**	**Mengfeng Li**	Sun Yet-sen University	
8:30	9:10	Keynote Presentation	Qimin Zhan	Deputy Director of Chinese Academy of Medical Sciences	TBA
9:10	9:30	PM Session：Cancer care and treatment (2)	Mengfeng Li	Vice President, Sun Yat-sen University Dean of Zhongshan School of Medicine	Non-coding RNA and modulation of oncogenic signaling
9:30	9:50		Shiyuan Cheng	Professor of Neurology, Northwestern University	Dysregulated Signaling in Human Brain Tumors
9:50	10:10		Zhou Wang	Director of Urological Research, Department of Urology, the Co-Director of the Prostate and Urologic Cancer Program, University of Pittsburgh	Targeting androgen receptor in prostate cancer
10:10	10:30	**Coffee Break**			
10:30	10:35	**Chair**	**Jian zhang**	Key laboratory longevity and ageing-related disease, Ministry of education,China	
10:35	10:55	ICR Session:Transporters/ Screening	Ling Gu	ICE/Nanion	Use of patchliner for ion-channel screening
10:55	11:15		Yang Wen	Roche	TBA
11:15	11:35		Dandan Sun	Professor of Neurology, University of Pittsburgh	Ion transporters in brain glioma
11:35	12:05		Kazuya Tsurudome	Senior Application Scientist, Biolin Scientific K.K.	Automated patch clamp recordings from IPS derived neurons
12:05	13:05	**Lunch**			

Start	End		Speaker	Institution	Title
13:20	13:25	**Chair**	**Xin Feng**	**Southern Medical University**	
13:25	13:45	PM Session:Genomics/Molecular Diagnosis and Application(2)	Jian Yu	Professor of Pathology and Radiation Oncology, University of Pittsburgh School of Medicine	Pharmacological quiescence for intestinal stem cell protection
13:45	14:05		Ye Zhang	Senior Product Specialist, Gene Company	Applying PacBio Long Read Sequencing For Human Biomedical Research Toward Precision Medicine
14:05	14:25		Kan Deng	CEO of Beijing Medical Technology Co., Ltd. (北京大数医达科技有限公司)	Apply deep learning technology to implement computer doctor
14:25	14:45		Sean Xie	Associate Dean for Research Innovation, School of Pharmacy, University of Pittsburgh	Precision System Pharmacology (PSP), an insightful precision medicinevia chemogenomics knowledgebase TargetHunter©
14:45	15:05		Enders Ng	Laboratory Director, Pangenia Lifesciences Limited	Development and validation of a novel and simple next-gen sequencing workflow for liquid biopsy analysis
15:05	15:35	**Coffee Break**			
15:35	15:40	**Chair**	**Youhua Liu**	**Southern Medical University**	
15:40	16:00	ICR Session: Drug Discovery	Jiancun Zhang	Principal Investigator of Guangzhou Institute of Biomedicine and Health, GIBH	The Strategy of Drug Development on Calcium Channels
16:00	16:20		Kewei Wang	Endowed Chang Jiang Professor and the Dean of School of Pharmacy, Qingdao University School of Pharmacy	Identification of novel bioactive molecules from natural products targeting TRP channels for therapeutic potential
16:20	16:40		Ling Chen	Executive Deputy Director of State Key Laboratory of Respiratory Diseases; Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences	Proton channel activity of influenza virus matrix protein 2 (M2) contributes to autophagy arrest
16:40	16:45	**Chair**	**Xianguo Liu**	**Director of Pain Research Center, Sun Yat-sen Universtity**	
16:45	17:05	ICR Session: Ion channels as Pain Targets (2)	Zhanfeng Jia	Professor, Department of Pharmacology, Hebei Medical University	Regulation of Piezo2/mechanically-activated ion channel by static plasma membrane tension
17:05	17:25		Xianguo Liu	Director of Pain Research Center, Sun Yat-sen Universtity	Bulleyaconitine A Preferably Blocks Voltage-gated Sodium Channels of Dorsal Root Ganglion Neurons in Neuropathic Conditions
17:25	17:45		Yan Xu	Vice Chair for Basic Research, Department of Anesthesiology; Professor of Anesthesiology, Pharmacology & Chemical Biology, Structural Biology,University of Pittsburgh School of Medicine	Designer Channels to Combat Painful Bladder Syndrome
17:45	18:00	**Closing Remarks**			