

# NOVEMBER 13<sup>th</sup> 2015

8:00-22:00 Registration Zijingang International Hotel(紫金港国际酒店)

# NOVEMBER 14<sup>th</sup> 2015

8:00-8:30 Opening Remarks and Group Photo

**Session I** Chairs: Shusen Liu / Min-Xin Guan

**William Mong Building (蒙民伟楼)**

8:30-9:10 Mitochondrial genetics and epigenetics

Douglas C. Wallace  
University of Pennsylvania, Philadelphia

9:10-9:50 Metabolic control of mitochondrial dynamics

David C. Chan  
California Institute of Technology, Pasadena

9:50-10:00 Coffee Break

**Session II** Chairs: Yau-Huei Wei / Masashi Tanaka

10:00-10:25 New mechanisms of neurodegeneration in mitochondrial disorders

Massimo Zeviani  
MRC-Mitochondrial Biology Unit, Cambridge

10:25-10:50 Mechanism of cellular degeneration induced by mitochondrial membrane proteostatic stress

Xin Jie Chen  
State University of New York Upstate Medical University, Syracuse

10:50-11:15 Molecular pathogenesis of mitochondrial disease caused by tRNA modification deficiency

Tsutomu Suzuki  
University of Tokyo, Tokyo

11:15-11:40 Molecular defects in mitochondrial protein translation machinery

Lee-Jun C. Wong  
Baylor College of Medicine, Houston

11:40-12:00 Mitochondrial translation deficiency and diseases

Min-Xin Guan  
Zhejiang University, Hangzhou

12:00-13:30 Lunch

Poster Presentation

12:00-12:30 Luncheon Seminar

Zhejiang DIAN Diagnostics Co., Ltd. Hangzhou

12:30-13:30 ASMRM Council Meeting

Room 123, College of Life Sciences

**Session III** Chairs: Hong-Kyu Lee / Quan Chen

**William Mong Building (蒙民伟楼)**

13:30-13:55 Mitochondrial dysfunction and dysregulation of Ca<sup>2+</sup> homeostasis in insulin insensitivity and diabetes

Yau-Huei Wei  
Mackay Medical College, Taipei

13:55-14:20 Endocrine disrupting chemicals, mitochondrial dysfunction and metabolic syndrome

Hong-Kyu Lee  
Eulji University, Seongnam

14:20-14:45 Application of whole-exome sequencing to identify novel disease causing genes associated with mitochondrial diseases.

Taosheng Huang  
Cincinnati Children's Hospital Medical Center, Cincinnati

14:45-15:10 Challenge to the diagnosis of mitochondrial disease in clinical practice

Chuanzhu Yan  
Shandong University, Jinan

15:10-15:35 GDF15 is a novel biomarker to evaluate efficacy of pyruvate therapy for mitochondrial disorders

Masashi Tanaka  
Tokyo Metropolitan Institute of Gerontology, Tokyo

15:35-15:45 Coffee Break

**Session IV** Chairs: Myung-Shik Lee / Yong Zhang

15:45-16:05 Cytosolic PINK1 and mitophagy-controversies and implications for Parkinson's disease

Kah-Leong LIM  
National University of Singapore, Singapore

16:05-16:25 Autophagy deficiency in myeloid cells leads to impaired mitochondrial function, increased inflammasome activation and metabolic syndrome

Myung-Shik Lee  
Yonsei University, Seoul

16:25-16:45 Integrated nano/micro technology in addressing mitochondria diseases

Dar-Bin Shieh  
National Cheng Kung University, Tainan

16:45-17:05 Mitochondrial genetic defects and neurological disorders

Zhi-Ying Wu  
Zhejiang University, Hangzhou

17:05-17:25 Mitochondrial DNA rare variants are genetic risk factors for type 2 diabetes mellitus in Chinese population

Jianxin Lyu  
Wenzhou Medical University, Wenzhou

17:25-17:45 Targeting mitochondria to prevent age-associated diseases with nutraceuticals: Hydroxytyrosol is a rising star after resveratrol

Jiankang Liu  
Xi'an Jiaotong University, Xi'an

17:45-18:05 Whole exome analysis of mitochondrial respiratory chain disorders: Prenatal genetic diagnosis

Taro Yamazaki  
Saitama Medical University, Saitama

18:45 Banquet (Poster Awards)

<b>Session V</b>	<b>Chairs: Jiankang Liu / Chin-San Liu</b>	<b>William Mong Building (蒙民伟楼)</b>
8:00-8:20	Molecular interplay of mitochondrial dynamic with receptor-mediated mitophagy	Quan Chen Chinese Academy of Sciences, Beijing
8:20-8:40	Mitochondrial fission and stress	Alexander M. van der Bliek University of California, Los Angeles
8:40-9:00	Transcriptional control of cardiac mitochondrial biogenesis and maturation	Daniel P. Kelly Sanford Burnham Prebys Medical Discovery Institute, Orlando
9:00-9:20	Mitochondrial function in stem cell differentiation	Jin Han Inje University, Busan
9:20-9:40	Systemic homeostatic adjustment of energy metabolism in tissue-specific mitochondrial dysfunction	Minho Shong Chungnam National University, Daejeon
9:40-10:00	Functional role of respiratory supercomplexes	José Antonio Enriquez Dominguez Centro Nacional de Investigaciones Cardiovasculares Carlos III, Madrid
10:00-10:10	Coffee Break	
	<b>Chairs: Dongchon Kang / Minho Shong</b>	
10:10-10:30	Exercise-induced mitochondrial homeostasis mediates myokine biological effects in muscle	Yong Zhang Tianjin University of Sport, Tianjin
10:30-10:50	Mitochondrial homeostasis and redox signaling: insight learned from muscle atrophy	Li Li Ji University of Minnesota Twin Cities, Minneapolis
10:50-11:10	Molecular mechanisms of metabolic reprogramming and other oxidative stress protective pathways; lessons from inborn errors of fatty acid oxidation	Rikke Katrine Jentoft Olsen Aarhus University, Aarhus
11:10-11:30	Dynamics of respiratory complex assembly	Yidong Bai University of Texas Health Science Center at San Antonio, San Antonio
11:30-11:50	Mitochondrial signaling in disuse-induced skeletal muscle atrophy	Scott K. Powers University of Florida, Gainesville
11:50-12:10	The role of mitochondria in aerobic trainability	Zsolt Radak University of Physical Education, Budapest
12:10-12:30	Regulation of Parkin and its substrate VDAC	Jongkyeong Chung Seoul National University, Seoul
12:30-13:30	Lunch	
<b>Session VI</b>	<b>Chairs: Huangen Ding / Mou-Chieh Kao</b>	<b>Zijinggang Hall, Alumni Center (校友楼/紫金港厅)</b>
13:30-13:50	Cdh1 regulates tumorigenesis and craniofacial development via the WWP2/Gooseoid signaling axis	Wenyi Wei Harvard Medical School, Boston
13:50-14:10	Mitochondrial p32 is essential for OXPHOS and TLR-mediated activation in dendritic cells	Dongchon Kang Kyushu University, Fukuoka
14:10-14:30	Redox signaling of mitochondrial outer membrane protein mitoNEET	Huangen Ding Louisiana State University, Baton Rouge
14:30-14:50	Allo-/xenogeneic transplantation of peptide-labelled mitochondria in Parkinson's disease: restoration of mitochondria functions and attenuation of 6-OHDA-induced neurotoxicity	Chin-San Liu Changhua Christian Hospital, Changhua
14:50-15:10	Functional characterization, dual localization and post-translational modifications of NDUFS7 subunit in human mitochondrial complex I	Mou-Chieh Kao National Tsing Hua University, Hsinchu
15:10-15:20	Coffee Break	
	<b>Chairs: Wei Yuan Yang / Zhiyin Song</b>	
15:20-15:40	The role of MICOS complex in mitochondrial dynamics and mtDNA nucleoid organization	Zhiyin Song Wuhan University, Wuhan
15:40-16:00	Impairment of mitochondrial respiratory function as an early biomarker of apoptosis induced by growth factor removal	Erich Gnaiger Innsbruck Medical University, Innsbruck
16:00-16:20	The role of fusion in mitochondrial quality control	Wei Yuan Yang Academia Sinica, Taipei
16:20-16:40	Study on the relationship between mitochondrial DNA mutation and pathology	Xingguo Liu Chinese Academy of Sciences, Guangzhou
<b>Session VII</b>	<b>Chairs: Jianxin Lyu / Chuanzhu Yan</b>	<b>Xixi Hall, Alumni Center (校友楼/西溪厅)</b>
13:30-13:50	RAS-RAF-MEK pathway protects neuronal atrophy caused by motor protein malfunction and mitochondrial impairment	Jian-Sheng Kang Chinese Academy of Sciences, Shanghai
13:50-14:10	Sensitizing human leukemia cells to apoptosis induction by inhibition of fatty acid oxidation	Ye Chen Zhejiang University, Hangzhou
14:10-14:30	Mitochondrial genome instability and tumorigenesis	Jinliang Xing Fourth Military Medical University, Xi'an
14:30-14:50	Mitochondrial damage-associated molecular patterns in the regulation of immune response	Xiawei Wei Sichuan University, Chengdu
14:50-15:10	Nuclear modifier genes in Leber's hereditary optic neuropathy	Pingping Jiang Zhejiang University, Hangzhou
15:10-15:20	Coffee Break	
15:20-15:40	Crosstalk between mitochondrial fusion and the Hippo pathway in controlling cell proliferation during <i>Drosophila</i> development	Wanzhong Ge Zhejiang University, Hangzhou
15:40-16:00	TBA	Peiqiang Mu South China Agricultural University, Guangzhou
16:00-17:00	Student Presentation	