

SCIENTIFIC PROGRAM

SESSION LECTURE

No.27

Aging Mechanisms and Interventions
Room: Phoenix Room 3

Co-Chairs:
Feng Gao



Guanghai Liu



Day 3 October 21st (Monday) 9:00 – 12:30

Time	Speaker	Title
09:00-09:30	Baohua Liu Shenzhen University School of Basic Medical Sciences	Mechanisms and Intervention of Vascular Aging
09:30-10:00	Akiko Takahashi The Cancer Institute, Japanese Foundation for Cancer Research (JFCR)	Senescent cells in the cancer microenvironment
10:00-10:30	Weiqi Zhang Beijing Institute of Genomics Chinese Academy of Sciences (China National Center for Bioinformatics)	The aging clock and its intervention
10:30-11:00	Chanhee Kang School of Biological Sciences, Seoul National University, South Korea	How Selective Autophagy Shapes the Landscape of Senescence
11:00-11:30	Qiurong Ding Shanghai Institute of Nutrition and Health ,Chinese Academy of Sciences	Selenoproteins and liver lipid metabolism
Tea Break		
11:30-11:45	Jia Li School of Aerospace Medicine at the Fourth Military Medical University	Spaceflight and cardiovascular ageing
11:45-12:00	Xing Zhang School of Aerospace Medicine at the Fourth Military Medical University	Early-life exercise extends healthspan
12:00-12:30	Xingguo Liu Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences	A novel protein CYTB-187AA with mitochondrial DNA-encoded protein arising from cytosolic translation (mPACT) pattern



Baohua Liu

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Professor Dr Baohua Liu is currently the Dean of Shenzhen University School of Basic Medical Sciences, and the Director of National Engineering Research Center for Biotechnology (Shenzhen). Dr. Liu's research focuses on the molecular mechanisms and intervention of aging, particularly, the epigenetic and metabolic regulation of aging, interorgan communications that drive systemic aging, and therapeutic strategies that can slow down aging.



Akiko Takahashi

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Akiko Takahashi, Chief of the Division of Cellular Senescence at the Cancer Institute, Japanese Foundation for Cancer Research, is also the Project Leader for the Cancer Cell Communication Project within the NEXTGanken Program at the Japanese Foundation for Cancer Research. Her research interests encompass cellular senescence, the senescence-associated secretory phenotype, small extracellular vesicles, epigenetics, and cancer biology.



Weiqi Zhang

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Principal investigator at Beijing Institute of Genomics Chinese Academy of Sciences (China National Center for Bioinformation), Zhang's research focuses on the core scientific issues of aging mechanisms and interventions, establishing a new paradigm for studying aging using human stem cells combined with primate models.



Chanhee Kang

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Dr. Chanhee Kang is an Associate Professor of Biological Sciences at Seoul National University (SNU), as well as a Samsung Science & Technology Foundation Investigator and a SUHF Fellow. After receiving his B.S. and M.S. from SNU, he received his Ph.D. in Genetics & Development from UT Southwestern Medical Center for his research on the starvation response in *C. elegans*. His research mainly focuses on two key stress responses, autophagy and senescence, which are closely related to aging.



Qiurong Ding

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Principal investigator at the Shanghai Institute of Nutrition and Health (SINH), Chinese Academy of Sciences (CAS). Her research focuses on the discovery of novel genetic and epigenetic contributors to liver metabolic regulation, with the hope to develop novel therapeutics to liver metabolic diseases.



Jia Li

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Chief of Rehabilitation Sciences, School of Aerospace Medicine, Fourth Military Medical University. Her research focuses on cardiovascular changes in aerospace environments and strategies to improve cardiovascular resilience in such conditions



Xing Zhang

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Dr Xing Zhang is a Professor in the School of Aerospace Medicine at the Fourth Military Medical University. He received his PhD in physiology from the Fourth Military Medical University in 2013, and serves as an investigator in the Laboratory of Aerospace Cardioprotection, the Key Laboratory of Aerospace Medicine of the Ministry of Education. His research focuses on the biological effects of lifestyle (e.g., exercise and diet) on health and the underlying mechanisms, with specific interests in metabolic regulation and mitochondrial function.



Xingguo Liu

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Xingguo Liu, PhD, is a PI and Professor of Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, China. He received his PhD from Tsinghua University in 2007, and then work as a postdoc fellow in Thomas Jefferson University, USA. He has been focusing on mitochondria and metabolism in stem cell fate determination and aging, degenerative diseases and therapy by stem cells and organoids.