

## SCIENTIFIC PROGRAM

### SESSION LECTURE

No.30

**Functional Anatomy and Exercise Medicine Rehabilitation  
Room: Peacock Room 1**

**Co-Chairs:  
Hongyu Liu**



**Sulin Cheng**



#### Day 1 October 19th (Saturday) 14:00 – 17:30

Time	Speaker	Title
14:00-14:30	<b>Hongyu Liu</b> North University of China, China	Functional anatomy analysis of singing movement
14:30-15:00	<b>Yannis Pitsiladis</b> Hong Kong Baptist University, HK	Exercise omics: from basic science to clinical applications
15:00-15:30	<b>Rui Duan</b> South China Normal University, China	Molecular mechanism of aerobic exercise against aging skeletal muscle fibrosis
15:30-16:00	<b>Tea Break</b>	
16:00-16:30	<b>Sulin Cheng</b> University of Jyväskylä, Finland	Optimize the effects of exercise and medication on metabolic diseases
16:30-17:00	<b>Philip Atherton</b> Medical School Royal Derby Hospital, UK	Muscle protein synthesis in health and disease: from molecular mechanisms to clinical applications
17:00-17:30	<b>Mingyi Hu</b> Guangzhou Xinhua University, China	Neck evolution and the special visceral nerve innervation



### Hongyu Liu

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Professor and Director of Institute of Sport and Exercise Medicine of North University in China, and a Director of Exercise Anatomy Branch of Chinese Society for Anatomical Sciences (CSAS). His research interests mainly focus on revealing the morphological, molecular, and neuropsychological mechanisms in the rehabilitation underlying drug addiction, autism and neuropsychotic disorders by the intervention of DBS, physical exercise and music intervention.



### Sulin Cheng

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Chair Professor at Shanghai Jiao Tong University and an emerita Professor at Faculty of Sport and Health Sciences, University of Jyväskylä, Finland. Her research spans a wide range of disciplines, including body composition, physical activity, nutrition, public health, endocrinology, physiology, and genetics. Dr. Cheng has conducted several well-funded multidisciplinary and multi-center projects in Finland, the USA, and China as Principal Investigator in the field of body composition-related health and technology issues spanning childhood to old age.



### Rui Duan

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Professor and Dean at South China Normal University School of Physical Education and Sports Science, his research goal is to understand how cells and tissues sense, process and respond to physical inputs, and how physical inputs affect cellular and tissue behavior, such as stem cell differentiation, tissue regeneration and epigenetic regulation. Understanding the molecular mechanisms of these processes will ultimately improve therapeutic interventions against human diseases.



### Mingyi Hu

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Professor and director of basic rehabilitation teaching and research Office of Department of rehabilitation of Guangzhou Xinhua University, his research mainly explores the relationship between human structure and functional anatomy from the evolutionary perspective of comparative anatomy and combines basic medicine with rehabilitation medicine and sports science to explain human actions and movements, especially the relationship between different nerve types and muscle control patterns.



### Yannis Pitsiladis

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Professor of Hong Kong Baptist University, member of the IOC Medical and Scientific Commission, a member of the Executive Committee and Chair of the Scientific Commission of the International Sports Medicine Federation (FIMS). His current research interest is in exploring human enhancement technologies applicable to health and disease. His most recent research is funded by the International Olympic Committee (IOC) and involves the application of “omics” and artificial intelligence to the detection of drugs in sport.



### Philip Atherton

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Professor of Clinical, metabolic & Molecular Physiology of Medical School, and faculty of medicine & health sciences of Royal Derby Hospital, UK. The current direction of my work involves the combining of detailed molecular physiology with the application of carbon/ deuterium stable isotope methodologies and more recently, the integration of OMIC (genomic/ metabolomic) techniques to discover predictors of, and the basis for, musculoskeletal decline in ageing and disease.