

Schedule

Tuesday, October 21, 2014

Time/Place	Rm. 101	Rm. 102	Rm. 103	Rm. 104	Rm. 105
09:00-10:00	Registration				
10:00-12:00	Young Investigators' Session I	Young Investigators' Session II	Young Investigators' Session III	Young Investigators' Session IV	Session of the Korea National Inst. of Health
12:00-13:00	Break				
13:00-15:00	SY01 Neural Networks for Animal Behavior	SY02 Cell Cycle Checkpoint and Chromatin Dynamics	SY03 Molecular Pathogenesis and Host Responses during Pathogenic Bacterial Infection	SY04 Cell Behaviors in 3D Environment	SY05 Redox in Diseases
15:00-15:10	Break				
15:10-15:30	Opening Ceremony (Rm. 103)				
15:30-16:20	Plenary Lecture I. Jennifer Lippincott-Schwartz, Ph.D. (Rm. 103)				
16:20-17:00	Macrogen Award Lecture (Rm. 103)				
17:00-17:10	Break				
17:10-18:00	Plenary Lecture II. Peter J. Park, Ph.D. (Rm. 103)				

Wednesday, October 22, 2014

Time/Place	Rm. 101	Rm. 102	Rm. 103	Rm. 104	Rm. 105	Hall B2 (1F) Poster/Exhibition
08:00-09:30	Registration					Poster Presentation I 09:30-17:40 13:30-14:00 (duty)
09:30-11:30	SY06 Biomarkers with Proteomics	SY07 Developmental Signal Transduction in Embryogenesis	SY08 Molecular Imaging for Cellular Biology	SY09 Gene Expression Control in Plants	SY10 Power of Physical Activity	
11:30-12:20	Plenary Lecture III. Barry Ganetzky, Ph.D. (Rm. 103)					
12:20-13:10	Research Ethics Sym. (Korean)	Company Workshop 1 (Luncheon)		Company Workshop 2 (Luncheon)	Company Workshop 3 (Luncheon)	
13:10-14:00	Break & Poster Viewing					
14:00-14:50	Plenary Lecture IV. Junying Yuan, Ph.D. (Rm. 103)					
14:50-15:30	KSMCB Life Science Award Lecture (Rm. 103)					
15:30-15:40	Break					
15:40-17:40	SY11 Alteration of Energy Metabolism Leads to Metabolic Dysfunctions in Human	SY12 Microtubule and Cell Morphology	SY13 Tumor Microenvironment and Metabolism	SY14 Dietary Modulation of Inflammation-Associated Disorders	SY15 Microfluidics: Enabling Convergence Technology	
17:40-18:30	Welcome Reception (Grand Ballroom Lobby)					

Thursday, October 23, 2014

Time/Place	Rm. 101	Rm. 102	Rm. 103	Rm. 104	Rm. 105	Hall B2 (1F)
						Poster/Exhibition
08:00-09:30	Registration					Poster Presentation II 09:30-16:50 13:30-14:00 (duty)
09:30-11:30	SY16 Wnt/Hippo Signaling and Diseases	SY17 Cilia in Development and Disease	SY18 RNA and Disease	SY19 Stem Cell in Developmental Cues	SY20 Session of the National Research Foundation of Korea	
11:30-12:20	Nobel Laureate Lecture. Avram Hershko, M.D., Ph.D. (Rm. 103)					
12:20-13:10	Company Workshop 4 (Luncheon)	Company Workshop 5 (Luncheon)	KSMCB General Assembly	Company Workshop 6 (Luncheon)	Company Workshop 7 (Luncheon)	
13:10-14:00	Break & Poster Viewing					
14:00-14:40	Ilchun Memorial Lecture (Rm. 103)					
14:40-14:50	Break					
14:50-16:50	SY21 Bioactive Signaling Lipids	SY22 Mobile Genetic Elements as Drivers of Genome Evolution	SY23 Personalized Medicine in New Genomics Era	SY24 Neurobiology of Aging	SY25 Metagenomic Insights into Human Gut Microbiome	
16:50-	Awards & Closing Remark (Rm. 103)					

October 22 (Wed), 09:30-11:00, Rm. 105

Sym. 10 Power of Physical Activity

Sym. 10-1

09:30-10:00

Exercise, Lipid Partitioning and Skeletal Muscle
Insulin Action



Simon Schenk, Ph.D.

Department of Orthopaedic Surgery, School of
Medicine, University of California, San Diego,
USA

Sym. 10-2

10:00-10:20

Linking Mitochondrial Bioenergetics to Obesity-
Induced Insulin Resistance in Skeletal Muscle: Role
of Exercise



Hyo Bum Kwak, Ph.D.

Department of Kinesiology,
Inha University, Korea

Sym. 10-3

10:20-10:40

Resistance Exercise Improves Cardiac Function in
Type 2 Diabetic Heart



Jin Han, M.D., Ph.D.

Department of Physiology, College of Medicine,
Inje University, Korea

Sym. 10-4

10:40-11:00

Role of Exercise Induced Myokines in Health and
Disease



Wook Song, M.D., Ph.D.

Institute of Sport Science,
Seoul National University, Korea

Organizer & Chair : Jin Han, M.D., Ph.D. (Department of Physiology, College of Medicine, Inje University, Korea)

The lack of exercise and movement in combination with a hyper caloric nutrition and physical inactivity are the main reason for chronic disease, such as obesity, T2 diabetes. It is recommended physical exercise to lose weight and improve insulin sensitivity while focusing on three aspects of physical activity: every day activities, resistance and endurance training. An increase of everyday activities and a constant resistance and endurance training will help to keep the muscular mass and increases the

physical working capacity. It burns calories and therefore reduces weight. Adequate a recommended type of movement are water gymnastics, Nordic walking, cycling and strength training. It is also allowed to do other sports, if the person already has some experience. If possible the power control should be taken from the parameters of a performance test (cardiac performance, resistance). This session will present 4 speakers whose recent findings on the structural basis for the cellular signaling.