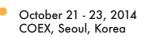


The 26th International Conference of the Korean Society for Molecular and Cellular Biology

October 21 (Tue) ~ 23 (Thu), 2014 COEX, Seoul, Korea

- Seminar: Grand Ballroom (1F)
- Exhibition & Poster Presentation : Hall B2 (1F)
 - Pre-Registration & Abstract Submission
 - June 20~ September 20, 2014
 - Hotel Reservation
 - June 20~ September 10, 2014
- Organization
 - **(a)** Korean Society for Molecular and Cellular Biology

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Welcome Message



Dear Colleagues,

We cordially invite all of you to attend the International Conference of the Korean Society for Molecular and Cellular Biology (KSMCB), which will be held at the COEX convention center in Seoul, South Korea between Oct 21-23, 2014. This conference will introduce novel knowledge and technologies on a broad range of topics in cellular and molecular biology serve as a platform for networking among participants.

The scientific program includes a Nobel laureate lecture, four plenary lectures, and 25 symposia focusing on the latest research breakthroughs. In addition, a poster session will be arranged for young scientists to present their research progress. This year, we are fortunate to host the 2004 Nobel Laureate, Dr. Avram Hershko (Technion-Israel Institute of Technology, Israel). Dr. Jennifer Lippincott-Schwartz (National Institutes of Health, USA), Dr. Peter J. Park (Harvard Medical School, USA), Dr. Barry Ganetzky (University of Wisconsin, USA), and Dr. Junying Yuan (Harvard Medical School, USA), will deliver plenary lectures. In addition, more than 150 world-class scientists from domestic and foreign institutions will introduce cuttingedge studies in the symposia. A symposium on research ethics also will be held.

There will be also a series of ceremony for the Academic Research Awards, the KSMCB Life Science Award, the Molcules & Cells Award, the Macrogen Scientist Award, the Ilchun Memorial Lecture, the Bioneer Next Generation Research Award, the Excellent Doctoral Thesis Award, the Excellent Poster Award, etc. In particular, we provide travel grant awards and outstanding oral presentation awards to young international participants. In addition, companies and industries in the field of bioscience will participate this conference for exhibition of research materials, biotools, and equipments.

We are confident that this conference will provide participants with the most updated information on the latest scientific advancements and valuable opportunities to exchange the ideas and launch future collaborations.

I eagerly look forward to meeting you in the international conference of the KSMCB in Seoul, Korea this October.

Sincerely yours,

Kyngjin Uim

Kyungjin Kim, Ph.D. President, KSMCB



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Program at a Glance

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)	
Time/Trace	Kiii. 101	Kiii. 102	Kiii. 105	Kiii. 104		Poster/Exhibition	
08:00-09:30							
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	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						
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)	Poster Presentation II
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)					



Invited Speakers

Nobel Laureate Lecture

The Ubiquitin System for Protein Degradation and Some of Its Roles in Cell Cycle Control



Avram Hershko, M.D., Ph.D.

Technion-Israel Institute of Technology, Israel *2004 Nobel Laureate

Dr. Avram Hershko was born in 1937 in Hungary and emigrated with his family to Israel in 1950. He gained his MD (1965) and Ph.D. (1969) from the Hebrew Univ.- Hadassah Medical School of Jerusalem. After a post-doctoral fellowship at the Univ. of California of San Francisco (1969-1972), he joined the faculty of the Haifa Technion becoming professor in 1980. He is now Distinguished Professor in the Unit of Biochemistry in the B. Rappaport Faculty of Medicine of the Technion. His main research interests concern the mechanisms by which cellular proteins are degraded, a formerly neglected field of study. Hershko and his colleagues showed that cellular proteins are degraded by a highly selective system. This system tags proteins for destruction by linkage a protein called ubiquitin, which had previously been identified in many tissues, as the name suggests, but whose function was previously unknown. Subsequent work in Hershko's and many other

laboratories has shown that the ubiquitin system has a vital role in controlling a wide range of cellular processes, such as the regulation of cell division, signal transduction and DNA repair. Abnormalities in the ubiquitin system result in diseases such as certain types of cancer. The full range of functions of the ubiquitin system in health and disease has still to be elucidated. Hershko was awarded the Nobel Prize in Chemistry (2004) jointly with his former PhD student Aaron Ciechanover and his colleague Irwin Rose. His many other honors include the Israel Prize for Biochemistry (1994), the Gairdner Award (1999), The Alfred P. Sloan Prize of the General Motors Cancer Research Foundation (2000), the Lasker Prize for Basic Medical Research (2000), the Wolf Prize for Medicine (2001) and the Louisa Gross Horwitz Award (2001). Hershko is a member of the Israel Academy of Sciences (2000) and a Foreign Associate of the US Academy of Sciences (2003).

Plenary Lectures



Navigating the Cellular Landscape with New Optical Probes, Imaging Strategies and Technical Innovations

Jennifer Lippincott–Schwartz, Ph.D. The Eunice Kennedy shriver National Institute of Child health and Human Development, National Institutes of Health, USA



Neuronal Degeneration and Regeneration in Long-Lived Drosophila Larvae

Barry Ganetzky, Ph.D. Laboratory of Genetics, University of Wisconsin, Madison, USA



What We Have Learned from Sequencing Cancer Genomes

Peter J. Park, Ph.D. Center for Biomedical Informatics, Harvard Medical School, USA



Control of Life-or-Death Decisions by RIP1 Kinase

Junying Yuan, Ph.D. Department of Cell Biology, Harvard Medical School, USA

► Symposia Lecturers

Oversea

Akihiro Kusumi (Kyoto Univ., Japan) Ambrose L. Cheung (Darthmouth Medical School, USA) Ethan Lee (Vanderbilt Univ., USA) Freda Miller (Univ. of Toronto, Canada) Garret D. Stuber (Univ. of North Carolina at Chapel Hill, USA) George Thomas (Univ. of Cincinnati, USA) Henrik Wernerus (Atlas Antibodies AB, Sweden) Ira Daar (Nat'I Cancer Inst.-Frederick, USA) Jayil Lee (Columbia Univ., USA) Jean-Ju L. Chung (Harvard Medical School, USA) Jeremy Reiter (Univ. of California, San Francisco, USA) Jungsu Kim (Mayo Clinic College of Medicine, USA) Junying Yuan (Harvard Medical School, USA) Kentaro Hanada (Nat'l Inst. of Infectious Diseases, Japan) Koji Hase (The Univ. of Tokyo, Japan) Mark A. Batzer (Louisiana State Univ., USA) Olivier Pertz (Univ. of Basel, Switzerland) Roderick H. Dashwood (Inst. of Biosciences and Technology, USA) Ryoung Shin (RIKEN Center for Sustainable Resource Science, Japan) Saadi Khochbin (Universite Joseph Fourier, France)





Sally Moody (The George Washington Univ., USA) Sara Kozma (Univ. of Cincinnati, USA) Seishi Ogawa (Kyoto Univ., Japan) Simon Schenk (Univ. of California, San Diego, USA) Stephanie Ma (The Univ. of Hong Kong, Hong Kong) Suresh K. Alahari (Louisiana State Univ. Health Sciences Center, USA) TaeOk Bae (Indiana Univ. School of Medicine–Northwest, USA)

- Tang K. Tang (Academia Sinica, Taipei, Taiwan)
- Thomas A. Cooper (Baylor College of Medicine, USA)
- Thomas L. Kash (Univ. of North Carolina at Chapel Hill, USA)
- Yoshio Hirabayashi (The Inst. of Physical and Chemical Research, Japan)
- Yves Gorin (Univ. of Texas Health Science Center at San Antonio, USA)

Min Chul Park (Seoul Nat'l Univ.)

Korean

Bok Luel Lee (Pusan Nat'l Univ.) Bong Geun Chung (Sogang Univ.) Bonghee Lee (Gachon Univ.) Chang-Woo Lee (Sungkyunkwan University) Charles Surh (POSTECH) Cheol Yong Choi (Sungkyunkwan Universiry) ChiHye Chung (Konkuk Univ.) Dae-Sik Lim (KAIST) Eekhoon Jho (The Univ. of Seoul) Eun-Kyeong Jo (Chungnam Nat' I Univ.) Hak Soo Seo (Seoul Nat'l Univ.) Hee-Jae Cha (Kosin Univ.) Hosung Jung (Yonsei Univ.) Hueng-Sik Choi (Chonnam Nat'l Univ.) Hve-Kvung Na (Sungshin Women's Univ.) Hye-Young Kim (Yonsei Univ.) Hyo Bum Kwak (Inha Univ.) Hyunggee Kim (Korea Univ.) Inhee Mook-Jung (Seoul Nat'l Univ.) In-Kyu Lee (Kyungpook Nat'l Univ.) Jae Ho Kim (Pusan Nat' I Univ.) Jae-Hong Kim (Korea Univ.) Je-Yoel Cho (Seoul Nat'l Univ.) Jihwan Song (CHA Univ.) Jihyun F. Kim (Yonsei Univ.) Jin Han (Inie Univ.) Jin-Hee Han (KAIST) Jong Chan Hong (Gyeongsang Nat'l Univ.) Jongbum Kwon (Ewha Womans Univ.) Jong-Cheol Rah (Korea Brain Research Inst.) Jongmin Lee (Konkuk Univ.) Joon Haeng Rhee (Chonnam Nat'l Univ.) Joon Kim (KAIST) Jung Han Yoon Park (Hallym Univ.) Jung Weon Lee (Seoul Nat' I Univ.) Kang-Yell Choi (Yonsei Univ.) Keun-Soo Kang (Dankook Univ.) Ki-Sook Park (Kyung Hee Univ.) Kunsoo Rhee (Seoul Nat'l Univ.) Kwana Pvo Kim (Kvuna Hee Univ.) Kyu-Tae Kim (AbClon) Kyu-Won Kim (Seoul Nat'l Univ.)

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Registration

▶ Pre-Registration: June 20 (Fri) - September 20 (Sat), 2014

On-line registration and hotel reservation are available at www.ksmcb.or.kr from June 1. The registration fees include all conference activities: scientific sessions, reception, and exhibition.

• Registration Fee

Domestic		Classification	Fee	Foreign	Classification	Fee
Member	Pre-registration	Regular participant	KRW 120,000			
		Student	KRW 50,000			
	On–site Registration	Regular Participant	KRW 180,000			
		Student	KRW 80,000			
Non-member	Pre-registration	Participant	KRW 250,000	Early Registration	Participant	USD 250
		Student	KRW 80,000			
	On–site Registration	Participant	KRW 200,000		Student	USD 100
		Student	KRW 120,000			

* Student should show his/her certificate (ID) of school in the registration booth on site.

Call for Abstracts

- Abstract Submission: June 20 (Fri) September 20 (Sat), 2014
 - All applications are required to submit a-1,000-character abstract via www.ksmcb.or.kr.
 - Multiple abstracts are welcome.
- Abstract Topics
 - Bioimaging and Nanobiotechnology
 - Cancer Biology
 - Cell Death and Autophagy
 - Cellular Signal Transduction
 - Chromatin and Gene Regulation
 - Developmental Biology and Cell Differentiation
 - DNA Replication, DNA Damage and Cell Cycle
 - Immunology
 - Metabolic Diseases
 - Microbiology and Infectious Diseases
 - Neurobiology
 - Omics and Systems Biology
 - Plant Defense
 - Plant Development
 - Protein Biochemistry: Structure, Function and Modification
 - RNA Biology
 - Stem Cell Biology
 - Vascular Biology
 - Others
 - High School or Univ. Undergraduate Student's Abstract
 - Commercial Tutorials
- Hotel Reservation

You can make reservations as a discount rate through the www.ksmcb.or.kr, until September 10, 2014.



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Official Language

The language of the conference will be English.

Expected Attendants

We anticipate a wide spectrum of delegates, ranging from those academia, hospitals, pharmaceutical, government institutes, etc.

SECRETARIAT

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