

<PROGRAM>

Day 1: Friday, November 18, 2005, 13:00 -

Opening Remarks Shigeaki Kato, Institute for Molecular and Cellular Biosciences, The University of Tokyo

Session I Chairman: Shigeaki Kato, Institute for Molecular and Cellular Biosciences, The University of Tokyo

The Ubiquitin Proteolytic System: From a Vague Idea, through Basic Mechanisms, and onto Human Diseases and Drug Targeting

Aaron Ciechanover, Vascular and Tumor Biology Research Center, The Rappaport Faculty of Medicine and Research Institute, Technion-Israel Institute of Technology

Structure, Assembly and Functions of Mammalian Proteasomes

Keiji Tanaka, Structure, Assembly and Functions of Mammalian Proteasomes, Tokyo Metropolitan Institute of Medical Science, Tokyo

Coffee Break

Session II

Chairman: Naoyuki Takahashi, MDU Institute for Oral Science
Hiroyuki Tanaka, Department of Pediatrics, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences

Pituitary Hormones and Bone

Mone Zaidi, Mount Sinai Bone Program, Department of Medicine, Mount Sinai School of Medicine

The coupling of bone resorption and formation

Nobuyuki Udagawa, Department of Biochemistry, Matsumoto Dental University

Coffee Break

Session III

Chairman: Toshitsugu Sugimoto, Department of Endocrinology, Metabolism and Hematological Oncology, Shimane University School of Medicine

Kei-ichi Ozono, Department of Pediatrics, Osaka University Graduate School of

Molecular defense mechanism for preventing ossification in ligament fibroblasts

Tatsuya Yoshizawa, Department of Tissue Regeneration and Reconstruction, Niigata University Graduate School of Medical and Dental Sciences

Mesenchymal Cell Differentiation and Transcriptional Regulation

Riko Nishimura, Department of Molecular and Cellular Biochemistry, Osaka University Graduate School of Dentistry

Session IV

Chairman: Toshihisa Komori, Nagasaki University School of Dentistry

Takeshi Miyamoto, Department of Orthopedics Surgery, Cell Differentiation, Keio University School of Medicine

The transcription factor Sox9 has essential roles in successive steps of chondrogenesis.

Haruhiko Akiyama, Department of Orthopedic Surgery, Kyoto University School of

Identification of Susceptibility Genes for Common Bone and Joint Diseases: Regulation of TGF- β by extracellular matrix

Shiro Ikegawa, Laboratory of Bone and Joint Disease, SNP Research Center, RIKEN

Reception Remarks Toshiyuki Yoneda, Department of Biochemistry and Molecular Biomedicine, Osaka University Graduate School of Dentistry

Day 2: Saturday, November 19, 2005, 8:15 -

Session V

Chairman: Akira Yamaguchi, Department of Oral Pathology, Tokyo Medical and Dental University,
Quiescent stem cells in the niche
*Toshio Suda, Keio University, The Sakaguchi Laboratory of Developmental Biology
School of Medicine, Keio University*

Session VI

Chairman: Naoyuki Kamatani, Institute of Rheumatology, Tokyo Women's Medical University
Tomoatsu Kimura, Department of Orthopaedic Surgery, Faculty of Medicine, Toyama

Regulation of the life and death of the osteoclast

Sakae Tanaka, Department of Orthopedic Surgery, Faculty of Medicine, University of
**Bone destruction and secondary osteoporosis in rheumatoid arthritis: from mechanisms to
paradigm shift of their treatments**

*Yoshiya Tanaka, The First Department of Internal Medicine, School of Medicine,
University of Occupational & Environmental Health, Japan*

Coffee Break

Session VII

Chairman: Takeshi Imamura, Cancer Institute of JFCR
Seiji Fukumoto, Division of Nephrology & Endocrinology, Department of Medicine,
University of Tokyo Hospital

Regulation of bone homeostasis by NFAT

*Hiroshi Takayanagi, Department of Cellular Physiological Chemistry, Tokyo Medical and
Dental University*

Regulation of TGF- β superfamily signaling

*Kohei Miyazono, Department of Molecular Pathology, Graduate School of Medicine,
University of Tokyo*

Lunch Time

Session VIII

Chairman: Chisato Miyaura, Department of Biotechnology and Life Science, Tokyo University of
Agriculture and Technology
Keiko Yamamoto, Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental
University

Structure-based analyses of estrogen receptor behavior in response to diverse ligands

Geoffrey L. Greene, Virginia and D. K. Ludwig Professor, University of Chicago

Structure and function of WAP four disulfide core domain inhibitors

Midori Kamimura, TEIJIN Institute for Bio-Medical Research

Differentiation switch of mesenchymal stem cells through suppression of PPAR- function

Ichiro Takada, The University of Tokyo, Institute of Molecular and Cellular Biosciences

Structures and Biological Functions of Synthetic Retinoids

*Hiroyuki Kagechika, School of Biomedical Science, Institute of Biomaterials and
Bioengineering, Tokyo Medical and Dental University*

Closing Remarks

Toshio Matsumoto, Department of Medicine and Bio regulatory Sciences, University of Tokushima
Graduate School of Medicine