

《8th Meeting of Bone Biology Forum Program : Honorifics omitted》

Day 1 August 19th (Fri.)

13:00 Opening Remarks Toshiyuki Yoneda
(Department of Biochemistry Osaka University of Graduate School of Dentistry)

<Session I>

Moderator Toshiyuki Yoneda (Department of Biochemistry Osaka University of Graduate School of Dentistry)

13:05 **Bjorn R. Olsen** (Hersey Professor of Cell Biology Professor and Chair of Oral and Developmental Biology, HSDM)
New insights into mechanisms controlling osteoblast differentiation

<Session II>

Moderator Riko Nishimura (Department of Biochemistry Osaka University of Graduate School of Dentistry)

Hiroshi Asahara (Department of Systems BioMedicine, Tokyo Medical and Dental University, National Center for Children Health and Development)

14:05 **Kazunori Imaizumi** (Graduate School of Biomedical Sciences, Hiroshima University)

The signaling of ER stress response involved in osteogenesis and chondrogenesis

14:45 **Jun Hirose** (Department of Orthopaedic Surgery Faculty of Medicine The University of Tokyo)

Epigenetic Regulation of Osteoclast Differentiation: Possible Involvement of Jmjd3 in the Histone Demethylation of Nfatc1

15:05 **Akira Myoui** (Medical Center for Translational Research Osaka University Hospital / Department of Orthopaedics Osaka University Graduate School of Medicine)

Translational Research on Bone Regeneration in Japan

<Session III>

Moderator Akira Yamaguchi (Tokyo Medical and Dental University Graduate School of Medical and Dental Sciences Oral Health Sciences Oral Restitution)

15:25 **Hideyuki Saya** (Division of Gene Regulation, Institute for Advanced Medical Research Keio University School of Medicine)

Osteosarcoma model using induced cancer stem cell (iCSC)

16:25 Coffee Break (15min)

<Session IV>

Moderator Nobuyuki Udagawa (Department of Biochemistry, Matsumoto Dental University)
Sakae Tanaka (Department of Orthopaedic Surgery Faculty of Medicine The University of Tokyo)

16:40 **Takeshi Miyamoto** (Keio Kanrinmaru project/ Orthopedic Surgery, Keio University School of Medicine)

Inflammation and osteoclastogenesis

17:00 **Kyoji Ikeda** (Department of Bone and Joint Disease, NCGG)

Between bone resorption and formation

17:40 **Kenji Hata** (Department of Biochemistry Osaka University of Graduate School of Dentistry)

TGF- β target gene NEDD9, a novel regulator involved in cancer and bone crosstalk, plays a critical role in breast cancer bone metastasis

<Session V>

- Moderator Shu Takeda (Department of Internal Medicine, Keio University School of Medicine)
18:00 **Masaru Ishii** (Laboratory of Cellular Dynamics, Immunology Frontier Research Center, Osaka University)
Intravital multiphoton imaging of bone-resorbing osteoclasts in situ
18:40 **Kazuki Inoue** (Institute of Molecular and Cellular Biosciences, The University of Tokyo)
A Y chromosome gene, Uty, defines sexual dimorphism in skeletal phenotype

<Welcome Reception>

- 19:00 Greeting Shigeaki Kato (Institute of Molecular and Cellular Biosciences, The University of Tokyo)

Day 2 August 20th (Sat.)

<Session VI>

- Moderator Shigeaki Kato (Institute of Molecular and Cellular Biosciences, The University of Tokyo)
8:30 **Jason Carroll** (Cancer Research UK Cambridge Research Institute)
Understanding mechanisms of Estrogen Receptor transcription

<Session VII>

- Moderator Hirochika Kitagawa (Regulation of Nuclear Signaling Institute for Molecular and Cellular Regulation, Gunma University)
Yoshiya Tanaka (The First Department of Internal Medicine)
9:30 **Shigeaki Kato** (Institute of Molecular and Cellular Biosciences, The University of Tokyo)
Epigenetic regulators supporting transcription
10:10 **Jun Hirata** (TEIJIN PHARMA LIMITED)
Regulation of Th-17 differentiation by modulation of ROR γ T activity

10:30 Coffee Break (15min)

<Session VIII>

- Moderator Kenichi Miyamoto (Institute of Health Biosciences, The University of Tokushima Graduate School)
Yasuhiro Takeuchi (Toranomon Hospital Endocrine Center / Okinaka Memorial Institute for Medical Research)
10:45 **Seiji Fukumoto** (Division of Nephrology and Endocrinology, Department of Internal Medicine, University of Tokyo Hospital)
FGF23 and mineral homeostasis
11:25 **Hironori Yamamoto** (Department of Clinical Nutrition, Institute of Health Biosciences, The University of Tokushima Graduate School)
Molecular mechanism of phosphate and vitamin D homeostasis and prevention of ectopic calcification

<Session IX>

- Moderator Toshihisa Komori (Nagasaki University Graduate School of Biomedical Sciences)
11:45 **Tadahiro Iimura** (Tokyo Medical and Dental University)
Multi-dimensional fluorescence imaging approaches for embryonic development and bone biology

12:25 Lunch (60min)

<Session X>

- Moderator Toshitsugu Sugimoto (Internal Medicine 1, Shimane University Faculty of Medicine)
Ryo Okazaki (Third Department of Medicine, Teikyo University Chiba Medical Center)
- 13:25 **Eichi Hinoi** (Kanazawa University Graduate School of Natural Science and Technology)
Hypoxic osteocyte-derived growth differentiation factor 15 regulates osteoclast differentiation
- 13:45 **Tatsuya Yoshizawa** (Department of Medical Biochemistry, Faculty of Life Science, Kumamoto University)
Insulin action on bone
- 14:05 **Masahiro Yamamoto** (Internal Medicine 1, Shimane University Faculty of Medicine)
Bone fragility in patients with type 2 diabetes mellitus is associated with poor bone quality
- 14:25 **Closing remarks** Toshio Matsumoto (Department of Medicine and Bioregulatory Sciences, The University of Tokushima Graduate School of Medical Sciences)