

# 10th Meeting of Bone Biology Forum Program : Honorifics omitted

Day 1 August 23, Friday

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- 13:00 Opening Remarks  
Toshiyuki Yoneda (Division of Hematology and Oncology, Indiana University School of Medicine)

## Session I

Moderator:  
Keiichi Ozono (Department of Pediatrics, Osaka University)  
Shigeaki Kato (Soma Central Hospital)

- 13:05 **Myeloma bone disease -mechanism of development and prevention by Pim-2 inhibition-**  
**Toshio Matsumoto** (Department of Medicine and Bioregulatory Sciences, The University of Tokushima Graduate School of Medical Sciences)
- 13:45 **Pathogenesis of FGF23-related hypophosphatemic diseases**  
**Yuka Kinoshita** (Division of Nephrology and Endocrinology, Department of Internal Medicine, University of Tokyo Hospital)

## Session II

Moderator:  
Satoshi Soen (Department of Orthopaedic Surgery and Rheumatology, Nara Hospital, Kinki University School of Medicine)  
Yoshiya Tanaka (The First Department of Internal Medicine, University of Occupational and Environmental Health, Japan)

- 14:05 **Preferential orientation of biological apatite (BAp) as a bone quality parameter in intact, regenerated or pathological bone tissues**  
**Takayoshi Nakano** (Division of Materials Science and Engineering, Graduate School of Engineering, Osaka University)
- 14:45 **Pleiotropic approach to the prevention of age-related musculoskeletal changes**  
**Sumito Ogawa** (Department of Geriatric Medicine, Graduate School of Medicine, The University of Tokyo)
- 15:05 **Notch/Rbpj/Hes1 Signal in Chondrocytes Modulates the Terminal Stage of Endochondral Ossification during Skeletal Growth and Osteoarthritis Development**  
**Shurei Sugita** (Department of Orthopaedic Surgery, Faculty of Medicine, The University of Tokyo)

## Session III

Moderator:  
Sakae Tanaka (Department of Orthopaedic Surgery, Faculty of Medicine, The University of Tokyo)

- 15:25 **The Inflammasome in Health and Disease**  
**Richard Flavell** (Department of Immunobiology, Yale University School of Medicine)
- 16:25 **Coffee Break (15 min.)**

## Session IV

Moderator:

Hiroshi Asahara (Department of Systems BioMedicine, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

Shiro Ikegawa (Laboratory for Bone and Joint Diseases, Center for Integrative Medical Sciences, RIKEN)

16:40 **Directed conversion and iPS cell technologies allow for pathophysiological recapitulation of type II collagenopathy**

**Minoru Okada** (Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application, Kyoto University)

17:00 **Regulation of Endochondral Ossification by Transcriptional Network**

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

17:40 **Muscle-derived humoral factor, osteoglycin, links muscle to bone**

**Kenichiro Tanaka** (Internal Medicine 1, Shimane University Faculty of Medicine)

## Session V

Moderator:

Takeshi Imamura (Department of Molecular Medicine for Pathogenesis, Ehime University Graduate School of Medicine)

Takeshi Miyamoto (Department of Orthopaedic Surgery, School of Medicine, Keio University)

18:00 **Control of bone remodeling by sensory nervous system**

**Shu Takeda** (Department of Physiology and Cell Biology, Tokyo Medical and Dental University Graduate School and Faculty of Medicine)

18:40 **Spleen serves as a reservoir of osteoclast precursors in *op/op* mice: A pivotal role for IL-34 in osteoclastogenesis**

**Yuko Nakamichi** (Institute for Oral Science, Matsumoto Dental University)

## Welcome Reception

19:00 Reception Remarks

Sakae Tanaka (Department of Orthopaedic Surgery, Faculty of Medicine, The University of Tokyo)

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Day 2 August 24, Saturday

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## Session VI

Moderator:

Toshiyuki Yoneda (Division of Hematology and Oncology, Indiana University School of Medicine)

- 8:30 **Strategies toward regeneration of damaged CNS using iPS cells**  
**Hideyuki Okano** (Department of Physiology, Keio University School of Medicine)

## Session VII

Moderator:

Masaru Ishii (Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, Osaka University)

Hiroshi Takayanagi (Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo)

- 9:30 **Regulation of bone remodeling**  
**Tomoki Nakashima** (Department of Cell Signaling, Tokyo Medical and Dental University)
- 10:10 **The role of local vitamin D function in bone and calcium homeostasis**  
**Ritsuko Masuyama** (Department of Cell Biology, Nagasaki University Graduate School of Biomedical Sciences)

10:30 **Coffee Break (15 min.)**

## Session VIII

Moderator:

Toshio Matsumoto (Department of Medicine and Bioregulatory Sciences, The University of Tokushima Graduate School of Medical Sciences)

- 10:45 **Wnt signaling during bone mass accrual and homeostasis**  
**Matthew Warman** (Department of Genetics, Harvard Medical School)

## Session IX

Moderator:

Yasuhiro Takeuchi (Division of Endocrinology and Metabolism, Toranomon Hospital)

- 11:45 **Diabetes mellitus and bone metabolism**  
**Toshitsugu Sugimoto** (Internal Medicine 1, Shimane University Faculty of Medicine)

12:25 **Lunch (60 min.)**

## Session X

Moderator:

Haruhiko Akiyama (Department of Orthopaedics, Kyoto University)

Hirotoshi Tanaka (Center for Antibody and Vaccine Therapy, The Institute of Medical Science, The University of Tokyo)

- 13:25 **Zfp521 is involved in the anabolic and catabolic responses of bone to PTH**  
**Kei Yamana** (Teijin Institute for Biomedical Research, Teijin Pharma Limited)

- 13:45 **Joint regeneration in rheumatoid arthritis with mesenchymal stem cells: is it a achievable goal?**  
**Kunihiro Yamaoka** (The First Department of Internal Medicine, University of Occupational and Environmental Health, Japan)
- 14:05 **Control of skeletal muscle mass by myostatin/TGF-  $\beta$  signaling**  
**Shinichiro Nishimatsu** (Department of Molecular and Developmental Biology, Kawasaki Medical School)
- 14:25 Closing Remarks  
Toshio Matsumoto (Department of Medicine and Bioregulatory Sciences, The University of Tokushima Graduate School of Medical Sciences)