

ASBMR[®] 2016 Annual Meeting

September 16–19, 2016 | Atlanta, Georgia, USA | Georgia World Congress Center

Onsite Program



Human Osteoclasts Revealed by Time-lapse

ospital/University of Southern Denmark,

Regulated Bone Resorption Regulates Odontoblast

ing Jiang², Zheng Zhu², Zhihe Zhao³, Yi-Ping
y of Alabama at Birmingham; State Key
of Orthodontics, West China Hospital of
states, ²Department of Pathology, University of
State Key Laboratory of Oral Diseases,
Hospital of Stomatology, Sichuan University.

SIGNAL TRANSDUCTION

ogenesis via Modulating Autophagy
public of

tion via RANKL-mediated NF- κ B activation and

in Seong¹, Shin-Yoon Kim², Young-Ran Yoon³,
& Matrix Research Institute, BK21 Plus KNU
1 Trial Center, School of Medicine, Kyungpook
public of, ²Skeletal Diseases Genome Research
National University, Korea, republic of

Osteoclast Lineage

uki Imai³, Sohei Kitazawa¹. ¹Ehime University
ime University Hospital, Japan, ²Ehime

TNF- α Mediated L-plastin Phosphorylation and

clasts
University of Maryland, Dental School, United

1 Osteoclast Differentiation and Function

Ha Kim², Kabsun Kim², Semun Seong³,
ology, Medical Research Center for Gene
al University Medical School, Korea, republic
1 Research Center for Gene Regulation,
ool, Korea, republic of, ³Department of
iversity Medical School, Korea, republic of

Positioning in mTORC1 Signaling in Osteoclasts
ie Lacroix¹, Celeste Owen², Bowen Gao⁴, Paul
Faculty of Dentistry, University of Toronto,
or Sick Children, Canada, ³Mount Sinai
Canada, ⁵Dalla Lana School of Public Health

OSTEOCLASTS - FUNCTION: TRANSCRIPTIONAL REGULATION AND GENE EXPRESSION

SU0171 **Functional analysis of Cadm1 gene, involved in epigenetic regulation during osteoclastogenesis**
Shinya Nakamura*¹, Naohiro Izawa¹, Hiroyuki Aburatani², Takeshi Miyamoto¹, Sakae
Tanaka¹. ¹Orthopaedic Surgery & Spinal Surgery, The University of Tokyo, Tokyo, Japan,
Japan, ²Genome Science Division, Research Center for Advanced Science & Technology,
The University of Tokyo, Tokyo, Japan, Japan
Disclosures: Shinya Nakamura, None

SU0172 **Osteoclasts are Deficient in the Expression of Osteogenic Coupling Factors Following Ischemic Osteonecrosis Of The Femoral Head**
Naga Suresh Adapala*¹, Harry K.W. Kim¹, Ryosuke Yamaguchi¹, Hicham Drissi². ¹Texas
Scottish Rite Hospital for Children, United states, ²University of Connecticut Health
Center, United states
Disclosures: Naga Suresh Adapala, None

SU0173 **Supportive Role of CD44-ICD in RUNX2- Mediated Transcriptional Regulations in Prostate Cancer Cells**
Linda Senbanjo*, Meenakshi Chellaiah. University of Maryland Baltimore, United states
Disclosures: Linda Senbanjo, None

OSTEOCLASTS - ORIGIN AND CELL FATE: APOPTOSIS

SU0174 **Conditional Abrogation of *Atm* in Osteoclasts Leads to Reduced Bone Mass and Extended Osteoclast Lifespan**
Toru Hirozane*, Takahide Tohmonda, Masaki Yoda, Masayuki Shimoda, Yae Kanai,
Morio Matsumoto, Hideo Morioka, Masaya Nakamura, Keisuke Horiuchi. Keio
University School of Medicine, Japan
Disclosures: Toru Hirozane, None

OSTEOCLASTS - ORIGIN AND CELL FATE: GENERAL

SU0175 **Changes in Wnt Receptor Expression Accompany Altered Canonical Wnt Signaling in Osteoclast Progenitors with Aging or Ovariectomy**
Stephanie Youssef*, Ming Ruan, Christine Hachfeld, Glenda Evans, Joshua Farr, David
Monroe, Sundeep Khosla, Jennifer Westendorf, Merry Jo Oursler, Megan Weivoda. Mayo
Clinic, United states
Disclosures: Stephanie Youssef, None

SU0176 **TMEM178 is a novel negative regulator of store operated calcium entry in osteoclasts**
Zhengfeng Yang*, Corrine Decker, Roberta Faccio. Department of Orthopaedic Surgery,
Musculoskeletal Research Center, Washington University School of Medicine, United
states
Disclosures: Zhengfeng Yang, None

OSTEOCYTES: BONE REMODELING REGULATION

SU0177 **24-Hour Profile of Serum Sclerostin and Its Association With Bone Biomarkers in Men**
Christine Swanson*¹, Orfeu Buxton², Steven Shea³, Sheila Markwardt³, Eric Orwoll³.
¹University of Colorado, United states, ²Pennsylvania State University, United states,
³Oregon Health & Science University, United states
Disclosures: Christine Swanson, None

SU0178 **Activation of AMP-activated Protein Kinase Decreases RANKL Expression and Increases Sclerostin Expression by Inhibiting the Mevalonate Pathway in Osteocytic MLO-Y4 Cells**
Ipppei Kanazawa*, Maki Yokomoto-Umakoshi, Ayumu Takeno, Ken-ichiro Tanaka,
Masakazu Notsu, Toshitsugu Sugimoto. Shimane University Faculty of Medicine, Japan
Disclosures: Ipppei Kanazawa, None

SU0179 **Alternation in Gap-junctional Intercellular Communication Capacity During the Ex Vivo Transformation of Osteocytes in the Embryonic Chick Calvaria**
Ziyi Wang, Naoya Odagaki, Tomoyo Tanaka, Mana Hashimoto, Hiroshi Kamioka*.
Okayama University Graduate School of Medicine, Dentistry & Pharmaceutical Sciences,
Department of Orthodontics, Japan
Disclosures: Hiroshi Kamioka, None