ASBMR® 2016 Annual Meeting

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Onsite Program

Human Osteoclasts Revealed by Time-lapse

ospital/University of Southern Denmark,

iated Bone Resorption Regulates Odontoblast

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SIGNAL TRANSDUCTION

ogenesis via Modulating Autophagy
public of

tion via RANKL-mediated NF-κB activation and

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Osteoclast Lineage
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TNF-α Mediated L-plastin Phosphorylation and
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l Osteoclast Differentiation and Function
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Positioning in mTORC1 Signaling in Osteoclasts
ie Lacroix[1], Celeste Owen[3], Bowen Gao[4], Paul
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OSTEOCLASTS - FUNCTION: TRANSCRIPTIONAL REGULATION AND GENE EXPRESSION

SU0171 **Functional analysis of Cadm1 gene, involved in epigenetic regulation during osteoclastogenesis**
Shinya Nakamura*[1], Naohiro Izawa[1], Hiroyuki Aburatani[2], Takeshi Miyamoto[1], Sakae Tanaka[1]. [1]Orthopaedic Surgery & Spinal Surgery, The University of Tokyo, Tokyo, Japan, Japan, [2]Genome Science Division, Research Center for Advanced Science & Technology, The University of Tokyo, Tokyo, Japan, Japan
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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. Kim[1], Ryosuke Yamaguchi[1], Hicham Drissi[2]. [1]Texas Scottish Rite Hospital for Children, United states, [2]University of Connecticut Health Center, United states
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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 Buxton[2], Steven Shea[3], Sheila Markwardt[3], Eric Orwoll[3]. [1]University of Colorado, United states, [2]Pennsylvania State University, United states, [3]Oregon 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**
Ippei Kanazawa*, Maki Yokomoto-Umakoshi, Ayumu Takeno, Ken-ichiro Tanaka, Masakazu Notsu, Toshitsugu Sugimoto. Shimane University Faculty of Medicine, Japan
Disclosures: Ippei 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

Abstracts