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**ASBMR<sup>®</sup> 2017**  
Annual Meeting

September 8–11, 2017  
Colorado Convention Center  
Denver, Colorado, USA



**Onsite Program**



- SA0116** **Fast Fourier Transform Analysis Showed Morphological Change of Bone Structure and Change of Periodicity of Sclerostin Expression during Orthodontic Tooth Movement**  
Ziyi Wang<sup>\*1</sup>, Yoshihito Ishihara<sup>1</sup>, Naoya Odagaki<sup>1</sup>, Masahiro Nakamura<sup>1</sup>, Ei Ei Hsu Hlaing<sup>1</sup>, Hiroshi Kamioka<sup>1</sup>. <sup>1</sup>Okayama University, Japan  
*Disclosures: Ziyi Wang, None*
- SA0117** **Loss of GORAB Leads to an Impaired Anabolic Cortical and Cancellous Bone Response to Mechanical Loading**  
Haisheng Yang<sup>\*1</sup>, Anne Seliger<sup>2</sup>, Wing-Lee Chan<sup>2</sup>, Michael Thelen<sup>2</sup>, Uwe Kornak<sup>2</sup>, Bettina Willie<sup>3</sup>. <sup>1</sup>Beijing University of Technology, China, <sup>2</sup>Charité-Universitätsmedizin Berlin, Germany, <sup>3</sup>Shriners Hospital for Children-Canada, McGill University, Canada  
*Disclosures: Haisheng Yang, None*
- SA0118** **Effects of Low-intensity Aerobic Exercise and Activated Vitamin D, Alfacalcidol, on Blood Glucose, Bone, and Muscle in Diabetic Model Rats**  
Manabu Akagawa<sup>\*12</sup>, Naohisa Miyakoshi<sup>12</sup>, Yuji Kasukawa<sup>12</sup>, Hiroyuki Tsuchie<sup>12</sup>, Yuichi Ono<sup>12</sup>, Masazumi Suzuki<sup>12</sup>, Tetsuya Kawano<sup>12</sup>, Yusuke Yuasa<sup>12</sup>, Itsuki Nagahata<sup>12</sup>, Yoichi Shimada<sup>12</sup>. <sup>1</sup>Akita university hospital, Japan, <sup>2</sup>Akita university Hospital, Japan  
*Disclosures: Manabu Akagawa, None*
- SA0119** **Unloaded Mice Treated with the Myokine Irisin Are Protected from Bone Loss and Muscle Atrophy**  
Graziana Colaianni<sup>\*1</sup>, Luciana Lippo<sup>1</sup>, Paolo Pignataro<sup>1</sup>, Lorenzo Sanesi<sup>1</sup>, Giovanna Spiro<sup>2</sup>, Ilenia Severi<sup>3</sup>, Giovanni Passeri<sup>4</sup>, Giacomina Brunetti<sup>1</sup>, Umberto Tarantino<sup>5</sup>, Silvia Colucci<sup>6</sup>, Janne Reseland<sup>6</sup>, Roberto Vettor<sup>2</sup>, Saverio Cinti<sup>3</sup>, Maria Grano<sup>7</sup>. <sup>1</sup>Department of Basic Medical Science, Neuroscience and Sense Organs, University of Bari, Italy, <sup>2</sup>Department of Medicine-DIMED, Internal Medicine 3, University of Padova, Italy, <sup>3</sup>Department of Experimental and Clinical Medicine, Center of Obesity, United Hospitals, University of Ancona, Italy, <sup>4</sup>Department of Clinical and Experimental Medicine, University of Parma, Italy, <sup>5</sup>Department of Orthopedics and Traumatology, Tor Vergata University of Rome, Italy, <sup>6</sup>Department of Biomaterials, Institute for Clinical Dentistry, University of Oslo, Blindern, Norway, <sup>7</sup>Department of Emergency and Organ Transplantation, University of Bari, Italy  
*Disclosures: Graziana Colaianni, None*
- SA0120** **Postmenopausal Osteoporosis is Characterized by a Distinct Muscle Transcription Profile Which Can Be Markedly Changed Through Heavy-load Strength Training**  
Ole K. Olstad<sup>\*1</sup>, Sjur Reppe<sup>1</sup>, Håvard Wiig<sup>2</sup>, Nils Helge Kvamme<sup>2</sup>, Camilla Kirkegaard<sup>3</sup>, Truls Raastad<sup>2</sup>, Vigdis T. Gautvik<sup>4</sup>, Karl J. Kvernevik<sup>5</sup>, Tor P. Utheim<sup>1</sup>, Kaare M. Gautvik<sup>5</sup>. <sup>1</sup>Oslo University Hospital, Department of Medical Biochemistry, Norway, <sup>2</sup>Norwegian School of Sport Sciences, Department of Physical Performance, Norway, <sup>3</sup>Norwegian School of Sports Sciences, Department of Physical Performance, Norway, <sup>4</sup>University of Oslo, Institute of Basic Medical Sciences, Norway, <sup>5</sup>Lovisenberg Diakonale Hospital, Norway, <sup>6</sup>Lovisenberg Diakonale Hospital, Unger-Vetlesen Institute, Norway  
*Disclosures: Ole K. Olstad, None*
- SA0121** **Assessment of the Effect of two Myostatin Inhibitors on Body Composition using MRI and DXA in Non Human Primates**  
Martin Guillot<sup>\*1</sup>, Sebastien Garipey<sup>1</sup>, Luc Tremblay<sup>2</sup>, Aurore Varela<sup>1</sup>. <sup>1</sup>Charles River Laboratories Montreal, Canada, <sup>2</sup>CIMS-CRCHUS, University of Sherbrooke, Canada  
*Disclosures: Martin Guillot, Charles River Laboratories, Other Financial or Material Support*
- SA0122** **Long-term physiologic exercise maintains the protective effects of muscle-secreted factors on osteocyte viability**  
Yukiko Kitase<sup>\*1</sup>, Hong Zhao<sup>2</sup>, Jennifer Rosser<sup>3</sup>, Michael J. Wacker<sup>3</sup>, Julian Vallejo<sup>3</sup>, Marco Brotto<sup>4</sup>, Lynda F. Bonewald<sup>2</sup>. <sup>1</sup>Indiana University, United States, <sup>2</sup>Indiana University, United States, <sup>3</sup>University of Missouri-Kansas City, United States, <sup>4</sup>University of Texas at Arlington, United States  
*Disclosures: Yukiko Kitase, None*
- SA0123** **Bone morphogenetic proteins and myc**  
Umberto Tarantino<sup>\*1</sup>, Maurizio Fe  
<sup>1</sup>University of Rome Tor Vergata,  
*Disclosures: Umberto Tarantino, None*
- SA0124** **An aging-associated decrease in peri of load-induced bone formation in n**  
Pamela Cabahug-Zuckerman<sup>\*1</sup>, C Stephanie Norman<sup>3</sup>, Whitney Col Engineering, Tandon School of Engineering, New York University; <sup>1</sup>United States, <sup>2</sup>Dept of Orthopaedics, United States, <sup>3</sup>Veterans Affairs F  
*Disclosures: Pamela Cabahug-Zuckerman*
- SA0125** **Osteoporosis and Muscle Atrophy**  
monica celi<sup>\*1</sup>, Manuel scimeca<sup>1</sup>, Umberto Tarantino<sup>1</sup>. <sup>1</sup>University  
*Disclosures: monica celi, None*
- SA0126** **Regulation of Protein Kinase Osteogenesis in Aged Mice**  
Bryan S. Hausman<sup>\*1</sup>, Xin Chen<sup>1</sup>. <sup>1</sup>Department of Orthopaedics, C Therapy Center, University of North Carolina at Chapel Hill, North Carolina, United States  
*Disclosures: Bryan S. Hausman, None*
- SA0127** **Intermittent High Dietary Protein Continuous High Protein Diet**  
Kehong Ding<sup>\*1</sup>, Priyanka Thal Wendy Bollag<sup>1</sup>, Meghan McGarvey<sup>1</sup>, Mohammed Elsalanty<sup>3</sup>, Mark I. Ross<sup>1</sup>. <sup>1</sup>University of Illinois at Urbana-Champaign, United States, <sup>2</sup>Jiaotong University, China  
*Disclosures: Kehong Ding, None*
- SA0128** **125-150 kDa TSP2 appears to be a matrix metalloproteinase inhibitor**  
Andrea Alford<sup>\*1</sup>, Anita Redd  
*Disclosures: Andrea Alford, None*
- SA0129** **Hydrogen Sulfide Epigenetical Mice**  
Jyotirmaya Behera<sup>\*1</sup>, Akash Mishra<sup>1</sup>. <sup>1</sup>University of Louisville, United States  
*Disclosures: Jyotirmaya Behera, None*
- SA0130** **The Novel Role of PINCH in Bone Development**  
Xin Liu<sup>\*1</sup>, Guozhi Xiao<sup>1</sup>. <sup>1</sup>Shanghai Jiao Tong University, China  
*Disclosures: Xin Liu, None*
- SA0131** **Thyroid hormone locally regulates bone growth**  
Manuela Rodrigues<sup>\*1</sup>, Bianca M. Rodrigues<sup>1</sup>. <sup>1</sup>University of Illinois at Urbana-Champaign, United States  
*Disclosures: Manuela Rodrigues, None*