

TIME	SESSION 16 Progenitor Cells	SESSION 17 Total Hip Replacement Metal Wear Reactions	SPOTLIGHT SESSION 18 Imaging and Bone Healing	SPOTLIGHT SESSION 19 Knee OA Repair	SESSION 20 Tendon/Ligament Repair & Tissue Engineering
	Room # 111-112	Room # 113-114	Room # 116	Room # 118-120	Room # 121-122
<b>Moderators</b>	Jinxi Wang, MD, PhD and Nicola Partridge, PhD	Michael M. Morlock, PhD, Claire Brockett, PhD	Jeffrey S. Nyman, PhD and Simon Tang, PhD	Louis E. DeFrate, PhD and Bingyun Li, PhD	Stavros Thomopoulos, PhD and Chunfeng Zhao, MD
9:15 AM	<p>Paper No. 0089</p> <p><b>Mechanical Loading Attenuates Radiation-Induced Bone Loss in Bone Marrow Transplanted Mice</b></p> <p>Peter M Govey, Henry J Donahue</p>	<p>Paper No. 0095</p> <p><b>One Third of 395 Failed MOM-THR Hips have Severely Corroded Taper Junctions: An Elevated Blood Co/Cr Ratio is a Biomarker for this</b></p> <p>Harry Hothi, Reshid Berber, Robert Whittaker, Kevin Ilo, Jay Meswania, Gordon Blunn, John Skinner, Alistair Hart</p>	<p>Spotlight Speaker</p> <p>Elise F. Morgan, PhD</p>  <p><b>Image Assessments of the Biomechanics and Biology of Bone Healing</b></p>	<p>Paper No. 0104</p> <p><b>Within Subject Changes To Tibial Articular Cartilage Thickness 4-5 Years Post Ac-injury</b></p> <p>Erin C Argentieri, Daniel R. Sturnick, Mack Gardner-Morse, Mike DeSarno, Timothy W. Touville, Michael P Wright, James R. Slaughterbeck, Robert J. Johnson, Bruce D. Beynnon</p>	<p>Paper No. 0107</p> <p><b>Surface Modification with Chemically Modified Synovial Fluid for Flexor Tendon Reconstruction in a Canine Model In Vivo</b></p> <p>Xiaoxi Ji, Ramona L Reisdorf, Andrew R Thoreson, Steven L Moran, Gregory D Jay, Kai-Nan An, Peter C Amadio, Chunfeng Zhao</p>
9:25 AM	<p>Paper No. 0090</p> <p><b>Oxygen Tension Regulates Human Mesenchymal Stem Cell (hmsc) Paracrine Functions</b></p> <p>Joseph Paquet, Mickael Descheppe, Adrien Moya, Delphine Logeart-Avramoglou, catherine Boisson-Vidal, Herve Petite</p>	<p>Paper No. 0096</p> <p><b>What is the Prevalence of "Asymptomatic Pseudotumours" in THA Patients with Corrosion of Dual Taper Modular Femoral Stem?</b></p> <p>Young-Min Kwon, Tsung-Yuan Tsai, William Leone, Guoan Li, Andrew A Freiberg, Harry E Rubash</p>		<p>Paper No. 0105</p> <p><b>Whole Blood Stimulates ACL Repair in Pigs as Effectively as Mesenchymal Stem Cells</b></p> <p>Benedikt L Proffen, Patrick Vavken, Braden C Fleming, Carla M Haslauer, Chad Harris, Jason T Machan, Martha M Murray</p>	<p>Paper No. 0108</p> <p><b>Harnessing Endogenous Stem/Progenitor Cells For Tendon Regeneration</b></p> <p>Chang H Lee, Kristy Kao, Yena Jun, David Joo, Jeremy Mao</p>
9:35 AM	<p>Paper No. 0091</p> <p><b>Early Identification and Characterization of Colony Founding Connective Tissue Progenitors</b></p> <p>Edward Kwee, Kimerly Powell, George Muschler</p>	<p>Paper No. 0097</p> <p><b>The Immune Response in Patients with Adverse Reactions to Metal Debris</b></p> <p>Masahiro Hasegawa, Shinichi Miyazaki, Takahiro Iino, Noriki Miyamoto, Hiroki Wakabayashi, Akihiro Sudo</p>		<p>Paper No. 0106</p> <p><b>ACL Degeneration As An Early Marker Of Future Osteoarthritic Changes In The Knee</b></p> <p>Eric Duerr, Ata A Rahnemai-azar, Freddie H. Fu, James J Irrgang</p>	<p>Paper No. 0109</p> <p><b>Enhancement of Achilles Tendon Repair Viscoelasticity with Blockade of Matrix Metalloproteinase</b></p> <p>Jolanta Norelli, John Schwartz, Mark Drakos, Nadine Chahine, Daniel Grande</p>
9:45 AM	<p>Paper No. 0092</p> <p><b>Activating Canonical Wnt/<math>\beta</math>-catenin Pathway Enhances DNA Repair and Promotes Cell Survival in Osteoblasts: a Novel Anabolic Treatment for Radiotherapy Associated Bone Damage</b></p> <p>Abhishek Chandra, Tiao Lin, Wei-Ju Tseng, Ji Zhu, Keith Cengel, Bing Xia, X. Sherry Liu, Ling Qin</p>	<p>Paper No. 0098</p> <p><b>Damage-associated Molecular Patterns (damps) Of Toll-like Receptors In Aseptic Loosened Total Hip Arthroplasty</b></p> <p>Yasunobu Tamaki, Yuya Takakubo, Tomoyuki Hirayama, Hiroharu Oki, Yasushi Naganuma, Kan Sasaki, Stuart B Goodman, Yrjö T Konttinen, Michiaki Takagi</p>	<p>Paper No. 0101</p> <p><b>Modification Of En Bloc Staining And Clearing Techniques For Improved 3D Imaging Of Musculoskeletal Cell Properties In Situ</b></p> <p>Ian Berke, Melanie Smith, Christopher Price</p>	<p>Spotlight Speaker</p> <p>Ichiro Sekiya, MD, PhD</p>  <p><b>Synovial Mesenchymal Stem Cells to Repair/Reverse Knee OA: From Bench to Clinic</b></p>	<p>Paper No. 0110</p> <p><b>Alteration In Neuronal Signaling During Diabetic Tendon Repair: A Study In Rat</b></p> <p>Paul W Ackermann, Aisha Ahmed, Jian Li, Mahmood Ahmed, Claes-Göran Östenson, Carol Hewitt, Paul T Salo, David A Hart</p>
9:55 AM	<p>Paper No. 0093</p> <p><b>The Role of Transduced Bone Marrow Cells Over-Expressing BMP-2 in Healing Critical Sized Defects in a Mouse Femur</b></p> <p>Michael J Pensak, Seung-Hyun Hong, Alex G Dukas, Brian Tinsley, Hicham M Drissi, Amy Tang, Mark Cote, Osamu Sugiyama, David W Rowe, Jay Lieberman</p>	<p>Paper No. 0099</p> <p><b>Females with Painful TJAs Exhibit a Higher Incidence and Severity of Hypersensitivity to Implant Metals Compared to Males: Implications for Sex Differences in Risk of Implant Failure</b></p> <p>Marco Caicedo, Edward Solver, Latasha Coleman, Nadim Hallab</p>	<p>Paper No. 0102</p> <p><b>Multi-modal Imaging For Structure-Function Characterization Of Periosteum's Smart Properties</b></p> <p>Renee Whan, Joanna L. Ng, Ulf Knothe, Melissa Knothe Tate</p>		<p>Paper No. 0111</p> <p><b>The Effect of Sex on the Biomechanical Outcomes of Bio-enhanced Anterior Cruciate Ligament Repair: A Large Animal Pre-clinical Study</b></p> <p>Ata M Kiapour, Braden C Fleming, Martha M Murray</p>
10:05 AM	<p>Paper No. 0094</p> <p><b>Macrophage Migration Inhibitory Factor Regulates Senescence of Human Mesenchymal Stem Cells under Hypoxia</b></p> <p>SunMi Palumbo, Tsung-Lin Tsai, Wan-Ju Li</p>	<p>Paper No. 0100</p> <p><b>Will New Metal Heads Restore the Mechanical Integrity of Corroded Trunnions at Revision THR?</b></p> <p>Philip C Noble, Aditya Derasari, Jonathan E Gold, Jerry Alexander, Sangwoo Kim, Stephen Incavo</p>	<p>Paper No. 0103</p> <p><b>Fatigue Failure in Cancellous Bone is Primarily Due to Propagation of Microdamage from Pre-existing Microdamage Sites</b></p> <p>Ashley M Torres, Jonathan B. Matheny, Marysol Luna, Clare M Rimnac, Christopher J Hernandez</p>		<p>Paper No. 0112</p> <p><b>Elongation Of The Anteromedial And Posterolateral Bundles Of The Acl During Hyper-extension Of The Knee: Implication To Double-bundle Acl Reconstruction</b></p> <p>Yong Feng, Tsung-Yuan Tsai, Jing-Sheng Li, Xudong Liu, Hai Hu, Changqing Zhang, Guoan Li</p>

SUNDAY