

Poster Presentations- Odds

Track 1- Cells Tissue Biomechanics

Bone

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| 1 | Gao, Victor Yuan | Quantifying the lacunar-canalicular system of human bone |
| 3 | Nguyen, John | Activation of Erk by a Novel Peptide, CK2.3, Inhibits Osteoclastogenesis of RAW264.7 Cells |
| 5 | Pei, Shaopeng | Metabolic Labelling of Osteocyte Pericellular Matrix in vitro and in vivo |
| 7 | Weidner, Hilary | A novel BMP receptor peptide increases bone formation in isolated primary cells |

Cartilage/IVD/Ligament/Tendon

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| 9 | David, Michael | Repeated Intra-Articular Injection of Zoledronic Acid Suppresses Cartilage Erosions Following Destabilization of the Medial Meniscus in Mice |
| 11 | Hollenbeck, Justin | Variables Measured from MR Images Accurately Classifies Pfirrmann Degeneration |
| 13 | McDonough, Ryan | A Chemogenetic Tool to Control Chondrocyte Activity In Vitro |
| 15 | Schrader, Jordyn | The origin of adhesion in articular cartilage and how to control it |

Cells/Biomaterials/Others

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| 17 | Ford, Eden | Incorporating hierarchal structure within hydrogel biomaterials using multifunctional collagen mimetic peptides. |
| 19 | Wang, Shubo | Effects of aging on the endothelial glycocalyx of rat aortas |

Track 2- Clinical Biomechanics

Cartilage/IVD/Ligament/Tendon

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| 21 | Khandha, Ashutosh | KNEE BIOMECHANICAL AND QUANTITATIVE MAGNETIC RESONANCE IMAGING VARIABLES THREE MONTHS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION |
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Gait

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| 23 | Aljehani, Moiyad | The non-Operated Limb may not be a Control Comparator after Unilateral Total Knee Arthroplasty |
| 25 | Colon, Sarah | EVALUATION OF THE RELATIONSHIP BETWEEN GAIT AND CLINICAL MEASURES OF PLANTAR FLEXOR FUNCTION AND STRENGTH IN HEALTHY, OLDER INDIVIDUALS |
| 27 | Kempski, Kelley | ADAPTATIONS TO SPLIT-BELT USER-DRIVEN TREADMILL AFTER INDUCED ASYMMETRIC GAIT |
| 29 | Madara, Kathleen | Novel rehabilitation protocol to return patients to high-level activities, sports, and occupations after total hip arthroplasty |
| 31 | Ray, Nicole | Factors Affecting Walking Speeds during Normal and User-Driven Treadmill Walking |

Neuromuscular Modeling & Training

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| 33 | McGrath, Robbie | Derivation of joint torque pulse patterns for goal-oriented robotic gait retraining |
| 35 | Zonnino, Andrea | Modulation of wrist joint stiffness by active muscular co-contraction: a model-based analysis |

Stroke and Brain

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| 37 | Cacciola, Cory | EFFECT OF A REAL-TIME BIOFEEDBACK TOOL ON ACCLIMATING INDIVIDUALS POST-STROKE TO WEARING A PERSONALIZED PASSIVE-DYNAMIC ANKLE-FOOT ORTHOSES |
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