

Orthopaedic Research Society Annual Meeting

February 2-5, 2019, Austin, Texas

Abstract List

Meir Marmor, MD

POSTER SESSION: Clinical Studies - Disease Epidemiology

POSTER SESSION #: PS2-124

POSTER #: 2048

POSTER TITLE: Fasciotomy for Acute Compartment Syndrome Associated with Extremity Fractures in the United States

AUTHORS: Meir T. Marmor; Abera W. Gellela; Erez Hajaj

Aaron Fields, PhD

POSTER SESSION: Intervertebral Disc - Treatment and Therapeutics

POSTER SESSION #: PS1-034

POSTER #: 0863

POSTER TITLE: Matrix Modification for Enhancing Transport Properties of the Human Cartilage Endplate to Improve Disc Nutrition

AUTHORS: Aaron Dolor; Sara Sampson; Jeffrey C. Lotz; Francis C. Szoka; Aaron J. Fields

Drew Lansdown, MD

SESSION DATE & TIME: Sunday Feb 3 2019 11:15 AM - 12:15 PM

SESSION NUMBER: 30

SESSION TITLE: Hip and Knee

PRESENTATION TIME: 11:33am - 11:39am

PAPER #: 0175

PAPER TITLE: ACL Graft Signal Characteristics Measured by Quantitative MRI Are Significantly Correlated with Patient Reported Outcomes Two Years after Hamstring Autograft ACL Reconstruction

AUTHORS: Drew A. Lansdown; Weiyuan Xiao; Alan L. Zhang; Christina R. Allen; Brian T. Feeley; Xiaojuan Li; Sharmila Majumdar; C. Benjamin Ma

SPOTLIGHT SESSION DATE & TIME: Saturday Feb 2 2019 4:30 PM - 5:30 PM

SPOTLIGHT SESSION NUMBER: 18

SPOTLIGHT SESSION TITLE: Rotator Cuff

PRESENTATION TIME: 5:10pm - 5:20pm

PAPER #: 0095

PAPER TITLE: Pre-Operative Quantitative MRI-Based Rotator Cuff Muscle Fat Fractions Are Associated with Patient-Reported Outcomes Following Rotator Cuff Repair

AUTHORS: Drew A. Lansdown; Cyrus Morrison; Musa Zaid; Alan L. Zhang; Christina R. Allen; Brian T. Feeley; C. Benjamin Ma

C. Benjamin Ma, MD

ORS spotlight lecture on Clinical Utility of Advanced Imaging of the Knee

Poster Presentation Details:

POSTER SESSION: Shoulder and Elbow - Arthroplasty and other Surgical Interventions

POSTER SESSION #: PS2-110

POSTER #: 1933

POSTER TITLE: Measurement Of Functional Work Space In Preoperative And Postoperative Shoulder Arthroplasty - Difference In Reverse Versus Total Shoulder Arthroplasty.

AUTHORS: Weliyuan Xiao; Alex Ngan; Patrick Curran; Li-wei Hung; Wo-Jan Tseng; C. Benjamin Ma; Brian Feeley

Also, it was selected as an **EPOSTER presentation**. And the information is listed below.

ePoster Presentation Details:

SESSION DATE and TIME: Tuesday Feb 5 2019 9:15 AM - 9:45 AM

SESSION LOCATION: Exhibit Hall - ePoster Theater 2

SESSION NUMBER: 14

SESSION TITLE: Moderated ePosters

PRESENTATION TIME: 9:42am - 9:45am

ePoster #:1933

Ralph Marcucio, PhD - Lab

Mary Nakamura from UCSF will be talking about our work at ORS on Monday Feb 4 at 12:15 PM in the ISFR section meeting.

Chelsea Bahney, PhD - Lab

SESSION DATE & TIME: Monday Feb 4 2019 3:15 PM - 4:15 PM

SESSION NUMBER: 46

SESSION TITLE: Bone - Injury and Healing II

PRESENTATION TIME: 3:55pm - 4:05pm

PAPER #: 0260

PAPER TITLE: Therapeutic delivery of Nerve Growth Factor Accelerates Cartilage to Bone Conversion during Fracture Healing

AUTHORS: Kevin O. Rivera; Fabrizio Russo; Theodore Miclau III; Chelsea S. Bahney

Alan L. Zhang, MD

SESSION DATE & TIME: Sunday Feb 3 2019 11:15 AM - 12:15 PM

SESSION NUMBER: 30

SESSION TITLE: Hip and Knee

PRESENTATION TIME: 11:21am - 11:27am

PAPER #: 0173

PAPER TITLE: Abnormal Muscle Forces During Gait are Associated with Hip Joint Symptoms and Cartilage Composition in Femoroacetabular Impingement Patients
AUTHORS: Michael A. Samaan; Alan L. Zhang; Tijana Popovic; Valentina Pedoia; Sharmila Majumdar; Richard B. Souza
ORS 2019 Annual Meeting as a New Investigator Recognition Award (NIRA) finalist

Brain Feeley, MD - Lab: Abstract List

Zili Wang, Xuhui Liu, Mengyao Liu, Carlin Lee, Hubert Kim, Brian T. Feeley
Different Phenotypes in Rotator Cuff Tear and Volumetric Muscle Loss Mouse Models with Depletion of Fibro-Adipogenic Progenitors
New Investigator Recognition Award (NIRA) Finalist
Oral Presentation at the ORS Annual Meeting 2019, Austin, TX

Zili Wang, Xuhui Liu, Mengyao Liu, Carlin Lee, Hubert Kim, Brian T. Feeley
Role Of UCP-1 In Disuse-induced Muscle Atrophy After Leg Immobilization In Mice
Poster Presentation at the ORS Annual Meeting 2019, Austin, TX

Zili Wang, Xuhui Liu, Mengyao Liu, Carlin Lee, Hubert Kim, Brian T. Feeley
Beta-3 Adrenergic Receptor Agonist Improves Rotator Cuff Muscle Rehabilitation and Shoulder Function after Delayed Tendon Repair in Mice
Oral Presentation at the ORS Annual Meeting 2019, Austin, TX

Mengyao Liu, Carlin S. Lee, Zili Wang, Shingo Kajimura, Hubert Kim, Brian T. Feeley, Xuhui Liu
Subpopulation of Fibro/adipogenic Progenitors (FAPs) According to Their Brown/Beige Fat Differentiation Potency
Oral Presentation at the ORS Annual Meeting 2019, Austin, TX

Mengyao Liu, Carlin Lee, Xuhui Liu, Lauren Bertoy, Hubert Kim, Brian Feeley
FibroAdipogenic Progenitor(FAPs) Populations Differ Across Skeletal Muscle
Oral Presentation at the ORS Annual Meeting 2019, Austin, TX

Carlin Lee, Mengyao Liu, Zili Wang, Audrey Lukawski, Shingo Kajimura, Hubert Kim, Brian Feeley, Xuhui Liu
Improving Muscle Regeneration after Ischemia-Reperfusion Injury with a Beta3 Adrenergic Receptor Agonist
Oral ePoster Presentation at the ORS Annual Meeting 2019, Austin, TX

Carlin Lee, Mengyao Liu, Audrey Lukawski, Hubert Kim, Brian Feeley, Xuhui Liu
FAP Proliferation and Differentiation Under Hypoxic Environment
Poster Presentation at the ORS Annual Meeting 2019, Austin, TX

Carlin Lee, Mengyao Liu, Zili Wang, Obiajulu Agha, Lauren Bertoy, Mark McClendon, Samuel Stupp, Hubert Kim, Xuhui Liu, Brian Feeley
Biomimetic Nanofiber Scaffold Delivering Beige Fibro/adipogenic Progenitors (FAPs) to Treat Volumetric Muscle Loss
Poster Presentation at the ORS Annual Meeting 2019, Austin, TX

Carlin Lee, Mengyao Liu, Lauren Bertoy, Hubert Kim, Xuhui Liu, Brian Feeley
Effect of Amibegron on Blood Vessel and Nerve Density in a Mouse Rotator Cuff Injury Model
Poster Presentation at the ORS Annual Meeting 2019, Austin, TX

Obiajulu Agha, Khalid Al-rayess, Carlin Lee, Mengyao Liu, Xuhui Liu, Brian Feeley
Human Fibro-Adipogenic Progenitor (FAP) Cell Transplantation Alone Proves Ineffective at Improving
Muscle Quality in Volumetric Injury Model
Poster Presentation at the ORS Annual Meeting 2019, Austin, TX

Chantal Nguyen, Alex Ngan, Patrick Curran, Weiyuan Xiao, Jeffrey Lotz, Brian Feeley
Evaluation of Shoulder Volumetric Measurements in Adhesive Capsulitis via Low-Cost, 3D Depth
Camera
Poster Presentation at the ORS Annual Meeting 2019, Austin, TX

Alex Ngan, Weiyuan Xiao, Chantal Nguyen, Patrick Curran, Wo Jan Tseng, Li Wei Hung, Benjamin Ma,
Jeffrey Lotz, Brian Feeley
Functional Workspace Correlates with PROMIS and Increases After Reverse and Total Shoulder
Arthroplasty
Poster Presentation at the ORS Annual Meeting 2019, Austin, TX

Chelsea Bahney, PhD - Lab:

POSTER SESSION: Bone - Injury and Healing
POSTER SESSION #: PS1-020
POSTER #: 0659
POSTER TITLE: LIF Enhances Callus Formation During Fracture Healing
AUTHORS: Jiun Chiun Chang; Diane Hu; Tiffany Shao; Brandon Gaston; Theodore Miclau; Ralph
Marcucio; Chelsea S. Bahney

POSTER SESSION INFORMATION

Poster Session 1 (PS1): Posters displayed Saturday and Sunday -
You are required to be at your poster during the designated times noted below:
EVEN # Posters will present on Saturday, February 2, 9:00 AM – 10:00 AM;
ODD # Posters will present on Sunday, February 3, 9:00 AM – 10:00 AM
A Poster Reception will be held on Saturday, February 2, 5:30 PM – 7:00 PM

Tamra Alliston, PhD - Lab

Courtney Mazur
SESSION DATE & TIME: Monday Feb 4 2019 11:15 AM - 12:15 PM
SESSION NUMBER: 41
SESSION TITLE: Crosstalk Between Bone and Other Joint Tissues
PRESENTATION TIME: 11:15am - 11:25am
PAPER #: 0229
PAPER TITLE: Osteocytic Mmp13 As A Novel Regulator Of Joint Crosstalk In Osteoarthritis
AUTHORS: Courtney M. Mazur; Cristal S. Yee; Karsyn N. Bailey; Tristan W. Fowler; Alexis Dang;
Tamara
Alliston

Karsyn Bailey
February 5 at 1:40
The talk is titled:
Osteocyte-intrinsic Ablation of TGF β Signaling Exacerbates Post-Traumatic Osteoarthritis