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Musculoskeletal **R**esearch **C**enter
@Washington University

www.musculoskeletalcore.wustl.edu

January 2019

Welcome to the new MRC Newsletter!

In an effort to make the MRC Newsletter easier to view on your mobile devices, and without having to click on attachments, we are moving to this new delivery platform. Please let us know if you experience any problems viewing the content of the newsletter.



Fridays @ 9am

BJCIH Bldg. | 5th Flr | Allison Conf. Rm.

01/04 - Jie Shen, PhD | Orthopaedic Surgery

01/11 - Laurie McCauley, DDS, MS, PhD | Univ. of Michigan

01/18 - Daniel Thorek, PhD | Radiology

01/25 - Heather Zannit | Orthopaedic Surgery

BJCIH 11th flr A/B Conf Room

02/01 - Sheila Stewart, PhD | Cell Biology & Physiology

BJCIH 11th flr A/B Conf Room

02/08 - Doug Kiel, MD, MPH | Harvard Medical School

02/15 - Roberta Faccio, PhD | Orthopaedic Surgery

02/22 - NO SEMINAR

Special Research Seminar

Tuesday, January 29, 2019 | 9:00 – 10:00 AM
BJC Institute of Health | 11th Floor, Conference Room A/B

“From Asymmetric Stem Cell Division To Tissue Engineering”

Dr. Shukry J. Habib

Sir Henry Dale Research Fellow

Centre for Stem Cells and Regenerative Medicine

King's College London

MRC Annual Symposium

February 20, 2019 | 1:00-5:30 pm
Eric P. Newman Educational Center

Featured Speaker:
Jennifer Elisseff, PhD
Johns Hopkins



Musculoskeletal Histology and Morphometry Core

The MRC Histology and Morphometry Core has recently enhanced its protocols for the sectioning, imaging and analysis of skeletal muscle morphology. If you are interested in these services, please read and follow the tips for preparing and delivering your muscle sample to ensure that you get the best images to answer your scientific question. [Read more...](#)

Research Highlight



Clarissa Craft, PhD

Assistant Professor of Medicine

Division of Bone & Mineral Diseases

Dr. Craft completed her graduate work in cancer drug discovery at Northwestern University's Feinberg School of Medicine in 2007. The same year, she joined the Department of Cell Biology and Physiology at

Washington University as a postdoctoral fellow in the laboratory of Dr. Bob Mecham. During her fellowship, Dr. Craft investigated extracellular matrix (ECM)-mediated regulation of TGF β within the skeleton. In 2012, Dr. Craft was promoted to Assistant Professor in the Department of Cell Biology and Physiology. Early in her independent career, Dr. Craft was funded by the American Diabetes Association to define the role of the ECM in adiposity and metabolic disease. During this time, she found that loss of a single ECM protein, MAGP1, was sufficient to predispose mice to metabolic syndrome (obesity and diabetes), pathologic bone marrow adipose tissue (BMAT) expansion, and bone fractures. The finding that diabetes was linked to bone fragility and altered BMAT adipocyte function led to a collaboration with Dr. Erica Scheller. In response to the success of their collaboration, in 2016 Dr. Craft transferred to the Division of Bone and Mineral Diseases to create a novel joint laboratory with Dr. Scheller which investigates the relationship between nerves and bone, with current emphasis on neuropathy and skeletal metabolism in diabetes. The lab's research in bone marrow adiposity (BMA), diabetic neuropathy, and skeletal ECM were recently highlighted through oral presentations at the 2018 BMA Society meeting in Lille, France and the 2018 ASBMR meeting in Montreal, Canada. In her spare time, Dr. Craft enjoys spending time outdoors with her husband and children at their farm in Sullivan, Missouri.

For more information about Dr. Craft's research interests, please visit the lab's website:

<https://bonehealth.wustl.edu/research/laboratories/scheller-and-craft-lab/>

Core A - Administration

[Matthew Silva, PhD \(Director\)](#)

[Roberto Civitelli, MD \(Assoc. Dir.\)](#)

[Deborah Veis, MD, PhD \(Assoc. Dir.\)](#)

[Linda Sandell, PhD \(Assoc. Dir.\)](#)

Core B - Structure & Strength

[Matthew Silva, PhD \(Director\)](#)

[Simon Tang, PhD \(Assoc. Dir.\)](#)

[Gretchen Meyer, PhD \(Assoc. Dir.\)](#)

Core C - Histology

[Deborah Veis, MD, PhD \(Director\)](#)

Core D - Animal Models

[David Ornitz, PhD \(Director\)](#)

If you have any questions regarding the MRC, contact:
Kamilla McGhee | Core Coordinator
314.747.5993 | kjm@wustl.edu

Please remember to include reference to support from the Musculoskeletal Research Center in your abstracts and publications.
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