

# Newsletter\_3\_May2019

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May 2019

## Musculoskeletal Research Center P30 proposal funded by NIAMS!

We were notified at the end of March that the P30 will be funded for another five years! Thank you to everyone that participated in submitting the proposal. Many hours were devoted to the effort.

We will continue three of our four cores:

1. **Administrative Core**
2. **Structure and Strength Core**
3. **Histology and Morphometry Core**

and introducing a new Core:

4. **Animal Models of Joint Injury and Disease Core** for support in mouse models of osteoarthritis and rheumatoid arthritis.

Also, please note that our grant number has changed. For future citations, please use the following:

"Washington University Musculoskeletal Research Center (**NIH P30 AR074992**)."



Fridays @ 9am

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

05/03 - Christian Weber | Orthopaedic Surgery-Tang Lab  
 05/10 - Chia-Lung Wu, PhD -Guilak Lab | Orthopaedic Surgery  
 05/17 - Regis O'Keefe, MD, PhD | Orthopaedic Surgery  
 05/24 - M. Farooq Rai, PhD | Orthopaedic Surgery  
 05/31 - Tim Peterson, PhD | Bone & Mineral Diseases

**Fridays in June @ 9am**  
**BJCIH Bldg. | 5th Flr | Allison Conf. Rm.**



06/07 - Data Visualization (K. Trinkaus & E. Lu)  
 06/14 - Statistics workshop 1 (9-10:30)  
 06/21 - Statistics workshop 2 (9-10:30)  
 06/28 - Intro to new Arthritis Models Core (Abu-Amer)

This year the MRC P30 Summer Educational Series will be focused on practical applications of statistics. Kim Trinkaus and Esther Lu in the Biostatistics Shared Resource of Siteman Cancer Center will first discuss data visualization and how this can inform the statistical approach to its analysis. For the next 2 weeks, we will use a hand-on workshop format to discuss common scenarios encountered in our field. In each session, 3 sets of data (each for a different scenario) will be covered. Participants will break into small groups (of 3-4) and use GraphPad Prism or similar software to analyze one set of data. After ~30 min work time, all participants will gather and discuss the approaches chosen for analysis and

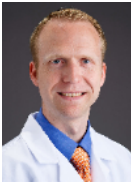
...work time, all participants will gather and discuss the approaches chosen for analysis and presentation of results. The goal is to provide practical training in appropriate analysis methods, common pitfalls, and ways to effectively present results. This is not training in the use of Prism itself. Prior to the sessions, a survey will be circulated to organize the groups and ensure a laptop with software for each one. The final session will be a presentation on a new Arthritis Models MRC core presented by its Director, Dr. Yousef Abu-Amer.

Register for workshops

MRC Core B Spring announcements

1. Please join us in welcoming Yung Kim. We have hired Yung as our new imaging facility manager. Yung has experience scanning on MicroCT machines and also running an equivalent microscope core. If you need to reach him to talk about imaging your samples, please contact him at [yungkim@wustl.edu](mailto:yungkim@wustl.edu).
2. We have an official IACUC protocol now. Starting this spring we will be asking people to use that protocol for live animal collaborative work done with our core. This is in keeping with a new push from the IACUC office to have a better system in place for cores like ours. Please contact us for more information on IACUC requirements.
3. Regarding billing for the MicroCTs in the core we are billing for the time your specimen is in the machine and no one else is able to use that machine. If you find your scan times are shorter than you reserved, please contact us and we will work with you to reduce your billed time, but also to better estimate scan time for your future reservations. This will help everyone scan more efficiently.
4. Last- we have recently had problems with a few of our ScanCo computers running rather slow. We have been able to determine this is related to concurrent analyses on the machines by a local user and also a remote user. In the future if there are speed issues we will come to any remote access user and ask them to refrain from remote access until the local user is done with their reserved session. We might also kill any remote analysis that is clogging up the computer. Please remember that you can always reserve your own session to analyze locally, and the fee is very minimal.

Research Highlight



David Brogan, MD, MSc
Assistant Professor of Orthopaedic Surgery
Hand & Microvascular Surgery Service

Dr. Brogan's focus is on translational research to better improve the diagnosis of nerve injuries in the operating room. He has received funding from the American Foundation for Surgery of the Hand to evaluate the application of laser Doppler blood flow technology through the diagnosis of peripheral nerve crush injuries.
Click here to read more...

Core A - Administration

- Matthew Silva, PhD (Director)
- Roberto Civitelli, MD (Assoc. Dir.)
- Deborah Veis, MD, PhD (Assoc. Dir.)

Core B - Structure & Strength

- Matthew Silva, PhD (Director)
- Simon Tang, PhD (Assoc. Dir.)
- Gretchen Meyer, PhD (Assoc. Dir.)

Core C - Histology & Morphometry

**Core C - Histology & Morphometry**

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

**Core D - Animal Models of Joint Injury & Disease**

[Yousef Abu-Amer, PhD \(Director\)](#)   [Regis O'Keefe, MD, PhD \(Assoc. Dir.\)](#)  
[Farshid Guilak \(Assoc. Dir.\)](#)   [Jie Shen, PhD \(Assoc. Dir.\)](#)

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

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