# ORS Midwest Musculoskeletal Workshop

**Thursday, July 20, 2017**  
**1:00 PM – 7:00 PM**  
**Connor Auditorium, Farrell Learning & Teaching Center, 1st Floor**  
**Washington University, School of Medicine, St Louis, Missouri**

## Hosted by:
M. Farooq Rai, PhD, ORS Ambassador – Midwest  
Audrey McAlindzen, PhD, ORS Membership Committee Chair

### Workshop Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM – 1:15 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>1:15 PM – 1:25 PM</td>
<td>Welcome</td>
</tr>
<tr>
<td>1:25 PM – 1:40 PM</td>
<td>The ORS and Benefits of Membership</td>
</tr>
<tr>
<td>1:40 PM – 2:10 PM</td>
<td>Career Development Talk - Scienteurs: Bringing Together Scientists and Engineers to Study the Musculoskeletal System</td>
</tr>
<tr>
<td>2:10 PM – 2:25 PM</td>
<td>Translational Medicine in Digital Health: Engaging and Tracking Orthopaedic Hip/Knee Reconstruction Patients</td>
</tr>
</tbody>
</table>

*Break 5 min*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 2:30 PM – 3:00 PM | Discussion Panel: *Pathways to Success in Science Research and Beyond*  
Farshid Guilak, PhD; Regis O’Keefe, MD, PhD; Lori Setton, PhD  
Stephen Linderman Ph.D, MD student, Gabriel Mbalaviele, PhD  
(Washington University School of Medicine); Blake Marggraf and Avik Som (EPharmix) |
| 3:00 PM – 4:00 PM | Poster Session / Refreshments  
Atrium, FLTC, 1st Floor  
30 minutes Odd  
30 minutes Even |
| 4:00 PM – 4:50 PM | Scientific Talks (7 Minute Talks with 3 Minute Q&A)  
1: Altering Spacer Material and Topography on the Masquelet Technique: Effects on Mechanics and Barrier Properties (Zacharie Toth, St. Louis University)  
2: Establishing an Endothelial Progenitor Cell Dose Response for the Healing of Critical Size Bone Defects (David Ramnaraign, University of Toronto)  
3: Crosslinking Tendon-Derived Matrix (TDM) to Meltblown Fabrics (Thomas Jenkins, Purdue University)  
4: Follistatin Gene Therapy Decreases Systemic Inflammation and Pain (Ruhang Tang, Washington University School of Medicine)  
5: Surface Chemistry of a Silicon Nitride Bioceramic Enhances Spinal Fusion: A Case Study (Giuseppe Pezzotti, Kyoto Institute of Technology, Kyoto, Japan) |
| 4:50 PM – 5:10 PM | Poster Awards; Survey Submission; Wrap-Up                                                   |
| 5:10 PM – 7:00 PM | Networking Event, Hearth Room, FLTC, 2nd floor  
*Refreshments and drinks will be provided.* |
| 7:00 PM       | Workshop Adjourns                                                                          |
Abstract Reviewers & Poster Judges

Simon Tang, PhD
Debabrata Patra, PhD
Orthopaedic Surgery, Washington University School of Medicine

Erica Scheller, DDS, PhD
Gabriel Mbalaviele, PhD
Clarissa Craft, PhD
Tim Peterson, PhD
Bone and Mineral Research, Washington University School of Medicine

Silviya Zustiak, PhD
Scott Sell, PhD
Biomedical Engineering, St. Louis University

Gretchen Slaish, PhD, PT
Physical Therapy, St. Louis University

Marcie Harris-Hayes, PT, DPT, MSCI
Gretchen Meyer, PhD
Program in Physical Therapy/Orthopaedic Surgery, Washington University School of Medicine

Spencer Lake, PhD
Biomedical Engineering, Washington University School of Medicine

Thank you to the following supporters:

Level I

Washington University in St. Louis
School of Medicine

Orthopaedic Surgery

Level II

MidSci
Serving Science Since 1983

MACS
Miltenyi Biotec

Thermo Fisher Scientific
The world leader in serving science

VWR
We Enable Science