Thank you for attending TARC Research Day!

SECOND ANNUAL
RESEARCH DAY

Friday, October 25, 2019
8:00am-2:00pm

The UNC Friday Center
100 Friday Center Drive
Chapel Hill, NC 27517
Keynote Speaker

S. Lou Bridges, MD, PhD

Anna Lois Waters Endowed Professor of Medicine
Director, Division of Clinical Immunology and Rheumatology
University of Alabama at Birmingham

S. Louis Bridges, Jr., MD, PhD is the Anna Lois Waters Endowed Professor of Medicine at the University of Alabama at Birmingham and has served as Director of the UAB Division of Clinical Immunology and Rheumatology since 2009.

He is also the Director of the UAB Comprehensive Arthritis, Musculoskeletal, Bone, and Autoimmunity Center and Vice President of the Rheumatology Research Foundation. His research has been continuously funded by NIH and is focused largely on rheumatoid arthritis susceptibility, severity, and treatment response. He has authored more than 140 manuscripts, 20 book chapters, and served as Editor of Vasculitis, published by Oxford University Press. He serves as Director of the UAB T32 Training Program in Rheumatic and Musculoskeletal Diseases Research, PI of a Department of Defense research grant on the role of the interferon-gamma pathway in RA, and Associate Director of the UAB Investigations in Gout, Hyperuricemia, and Comorbidities (INSIGHT) Center of Research Translation (CORT).

In addition, he serves as investigator on multiple research grants focused on arthritis and musculoskeletal diseases. He has been named to the Best Doctors in America list yearly since 2003, as well as to Castle Connolly Top Doctors. He was previously Co-Editor of Arthritis & Rheumatology (2010-17) and Chair of the NIH Arthritis, Musculoskeletal, and Skin Study Section (2013-16). In addition to membership on several committees of the American College of Rheumatology (ACR), Dr. Bridges served as Chair of the ACR Committee on Research, and as a member of the Scientific Advisory Council and Board of Directors of the Rheumatology Research Foundation. He was named recipient of the 2008 Max Cooper Award for Research Excellence by the UAB Department of Medicine, and the 2012 Sam Brown Bridge Builder Award, UAB School of Public Health.

Special Thanks

The UNC Thurston Arthritis Research Center would like to thank our researchers for their dedication and exceptional work.

We would like to give a special thanks to our TARC Research Day Sponsor Leigh Thurston Myers, whose generous donation made today’s program possible.


28. Lauryn Braxton, Stephanie Cone, Morika Williams, Matthew Fisher, Duncan X. Lascelles. Comparing MRI and Histological Outcomes from Young and Mature Osteoarthritic Rats.

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**TARC Research Day Program**

7:30am  Breakfast  
*Blueberry Hill Room & Atrium Center*

8:00am-8:10am  Welcome Remarks  
*Sunflower Room*  
Dr. Richard Loeser, TARC Center Director  
Dr. Beth Jonas, Division Chief, Rheumatology, Allergy & Immunology

8:10am-9:10am  Short Talks  
*Sunflower Room*  
Moderated by: Lara Longobardi, PhD & Becki Cleveland, PhD

8:10am  Michaela E. Copp, Garrett A. Sessions, Margaret C. Flanders, Rachel Gagliardi, Lauren V. Schnabel, Brian O. Diekman. Senescence Induction in Human and Equine Cartilage Explants for Mechanistic Investigation and Development of Senolytic Therapy for Osteoarthritis.

8:25am  Edwin Kim, Luanna Yang, Ping Ye, Rishu Guo, Quefeng Li, Michael D. Kulis, and A. Wesley Burks. Long-Term Sublingual Immunotherapy for Peanut Allergy in Children: Clinical and Immunologic Evidence of Desensitization.

8:40am  Bradley T. Estes, Franklin T. Moutos, Masataka Enomoto, Megan A. Carson, Dianne Little, Johnathan Stallings, Farshid Guilak, Duncan X. Lascelles. Biological Hip Resurfacing for Osteoarthritis Treatment in a Canine Model.

9:10am-9:25am  **Poster Pitches Session #1**  
*Sunflower Room*

Kathleen S. Metz Reed, Eliza Thulson, Cheeho Kim, Richard F. Loeser; Douglas H. Phanstiel. **Fibronectin Fragment Stimulation as an in vitro Model of Osteoarthritis.**  
(Poster #1)

Jamie L. Waldron, Nerlyne Desravines, Kim Boggess, Scott Commins. **Proactive Penicillin Allergy Testing During Pregnancy.**  
(Poster #7)

Onyinye I. Iweala, Mohammad Feraydouni, Mona Motaghed, Shailesh P. Choudhary, Camille Kapita, Scott Commins, Christopher Kepley. **Alpha-gal Induces Mediator Release by Human Mast Cells.**  
(Poster #2)

(Poster #8)

Sun Ah Kang, Jennifer Rogers, Saira Sheikh, Megan Clowse, Young Truong, Barbara J Vilen. **Lysosome Defects in SLE Promote the Accumulation of Nuclear Antigens on the Surface of Hematopoietic Cells.**  
(Poster #3)


20. Katie Huffman, Maihan B. Vu, Ida Griesemer; Jen Rees, Kimberlea F. Grimm, Leigh F. Callahan, Rebecca J. Cleveland, Yvonne M. Golightly, Kelli D. Allen. **Developing the Osteoarthritis Physical Activity Care Pathway: A Primary Care-Focused Intervention to Engage Patients with Osteoarthritis in Physical Activity.**

21. Abigail L. Gilbert, Jing Song, David Cella, Rowland W. Chang, Dorothy D. Dunlop. **What is an Important Difference in Gait Speed in Adults with Knee Osteoarthritis?**

22. Erin C. Steinbach, Johanna Smekens, Layna Perini, Michael D. Kulis, Martin T. Ferris, Andrew Hinton, Brandi Johnson-Weaver, Wesley Burks, Shehzad Z. Sheikh. **Altered Gastrointestinal Environment and Epithelial Barrier Function are Associated with Peanut Allergy in the CC027/Geniunc Mouse.**


Poster Presentation Session #1
Willow Lounge
9:25am – 9:55am: Odd Numbered Poster Presentations
9:55am – 10:25am: Even Numbered Poster Presentations

1.

2.
Onyinye I. Iweala, Mohammad Fereydouni, Mona Motaghed, Shailesh P. Choudhary, Camille Kapita, Scott Commins, Christopher Kepley. *Alpha-gal Induces Mediator Release by Human Mast Cells.*

3.
Sun Ah Kang, Jennifer Rogers, Saira Z. Sheikh, Megan Clowse, Young Truong, Barbara J. Vilen. *Lysosome Defects in SLE Promote the Accumulation of Nuclear Antigens on the Surface of Hematopoietic Cells.*

4.

5.
Matthew J. Rich, Yang Cui, Richard F. Loeser, Brian O. Diekman. *Characterizing the Signaling Response of Primary Human Chondrocytes to Cylcical Compression Loading.*

6.

7.


5. Louise Thoma, Jason Jakiela, Hiral Master, Dana Mathews, Meredith Christiansen, Dan White. *Restricting Activity to Evade Knee Symptoms is Associated with Worse Physical Function and Radiographic Osteoarthritis.*

6. Sandra H. Soto, Diane Berry, Leigh F. Callahan. *Exploring Social Motivation for PA Among Latinas with Osteoarthritis and a Member of their Social Networks.*


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**10:45am-11:45pm**

**Keynote Speaker:**

Sunflower Room

Dr. S. Lou Bridges

"Rheumatoid Arthritis in African Americans: Insights from the CLEAR Study"

**11:45pm-12:45pm**

**Lunch**

South Atrium - Second Floor

**12:45pm-1:00pm**

**Poster Pitches Session #2**

Sunflower Room

- **Emma M. Astrike-Davis**, Rebecca J. Cleveland, Beth L. Jonas, Leigh F. Callahan. *Associations of Socioeconomic Status with Rheumatoid Arthritis (RA) Radiographic Progression in African Americans with Early Disease.*
  *(Poster #15)*

  *(Poster #22)*

  *(Poster #17)*

  *(Poster #23)*

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**10:25am - 10:45am**

**Break**