

University of Wisconsin, University of Texas Southwestern,
& University of Massachusetts-Boston
O'Brien Research Center Annual Symposium

"Age Associated Changes and the Lower Urinary Tract"

June 5th-6th, 2024
University of Wisconsin-Madison
Health Sciences Learning Center



Keynote Speaker

- **Nathan LeBrasseur, PhD**, Professor, Director, Robert and Arlene Kogod Center on Aging, Mayo Clinic

Visiting Speakers

- **Ron Korstanje, PhD**, Associate Professor, The Jackson Laboratory
- **Scott Bauer, MD**, Assistant Professor, University of California, San Francisco
- **Indira Mysorekar, PhD**, Professor, Baylor College of Medicine

University of Wisconsin-Madison Speakers

- **William Ricke, PhD**, Professor, Director, O'Brien Center, School of Medicine and Public Health
- **Chad Vezina, PhD**, Professor, School of Veterinary Medicine
- **David Jarrard, MD**, Professor, Vice Chair in Urology, School of Medicine and Public Health
- **Adam Konopka, PhD**, Assistant Professor, School of Medicine and Public Health
- **Melissa Skala, PhD**, Professor, Morgridge Institute for Research; College of Engineering
- **Kris Penniston, PhD**, Senior Scientist, School of Medicine and Public Health

K12/Trainee Speakers

- **Teresa Liu, PhD**, K01 Scholar, Research Assistant Professor, University of Wisconsin-Madison
- **Alexis Adrian**, PhD Candidate, University of Wisconsin-Madison
- **Ajinkya Limkar**, MD/PhD Candidate, University of Wisconsin-Madison
- **Han Zhang**, PhD Candidate, University of Wisconsin-Madison

AGENDA

Wednesday, June 5 – Room 1335 HSLC

- 5:30 pm **Welcome Remarks**
William Ricke, PhD, Professor, UW-Madison School of Medicine and Public Health
- 5:35 pm **Keynote Presentation: “Targeting Senescent Cells for Healthy Aging”**
Nathan LeBrasseur, PhD, Director, Robert and Arlene Kogod Center on Aging, Mayo Clinic

Thursday, June 6 – Room 1335 HSLC

- 7:00 am **Sign In/Breakfast**
- 8:00 am **Introduction**
Kris Penniston, PhD, Senior Scientist, UW-Madison School of Medicine and Public Health
- 8:10 am **“The urethral defense against pathogens – does it deteriorate with age?”**
Chad Vezina, PhD, Professor, UW-Madison School of Veterinary Medicine
- 8:30 am **“Prostatic androgen receptor signaling shows an age-related and lobe-specific alteration in mice”**
Han Zhang, PhD Candidate, UW-Madison
- 8:40 am **“The aging prostate: Does cellular senescence drive age-related prostate dysfunction?”**
Ajinkya Limkar, MD/PhD Candidate, UW-Madison
- 8:50 am **“Metabolic alterations in LUTS/BPH”**
Teresa Liu, PhD, K01 Scholar, Research Assistant Professor, UW-Madison School of Medicine and Public Health
- 9:10 am **“Single cell metabolic imaging with autofluorescence microscopy”**
Melissa Skala, PhD, Professor, Morgridge Institute for Research; UW-Madison College of Engineering
- 9:35 am **“Modeling Metabolism: OXPHOS disruption in the aging prostate”**
Alexis Adrian, PhD Candidate, UW-Madison
- 9:45 am **“Cellular and Molecular Mechanisms of Urothelial Aging, Senescence, and Dysfunction”**
Indira Mysorekar, PhD, Professor, Baylor College of Medicine

10:10 am BREAK

- 10:20 am **“Prescription exercise for Older men with Urinary Disease (PROUD) – a pilot trial”**
Scott Bauer, MD, Assistant Professor, University of California, San Francisco
- 10:45 am **“Geroscience guided rapamycin clinical trials”**
Adam Konopka, PhD, Assistant Professor, UW-Madison School of Medicine and Public Health
- 11:05 am **“Aging and Urinary Control: New tools and Resources for Mouse Studies”**
Ron Korstanje, PhD, Associate Professor, The Jackson Laboratory
- 11:30 am **“Epigenetic Alterations That Occur With Prostate Aging Generate Biomarker And Prevention Opportunities”**
David Jarrard, MD, Vice Chair in Urology, UW-Madison School of Medicine and Public Health
- 11:55 am **Closing Remarks & Adjourn**
William Ricke, PhD, Professor, UW-Madison School of Medicine and Public Health

About the O'Brien Center

THE GEORGE M. O'BRIEN CENTER OF RESEARCH EXCELLENCE IS A RESEARCH COOPERATIVE BETWEEN THE UNIVERSITY OF WISCONSIN-MADISON, UNIVERSITY OF TEXAS SOUTHWESTERN, UNIVERSITY OF MASSACHUSETTS-BOSTON, AND THE NATIONAL INSTITUTES OF HEALTH.

Our goals are to:

- Identify factors that cause urinary dysfunction in aging men
- Build consensus around research approaches to model urinary dysfunction in rodents
- Provide opportunities for established investigators to transition into the field of benign urology
- Secure the future of urologic research by promoting development of the next generation of urologic researchers
- Disseminate urologic research and knowledge

Dear Scientists,

On behalf of our O'Brien Center, we want to thank you for participating in this important scientific event.

We hope that you found the symposium informative and thought provoking. Your support, critical thinking, and time are incredibly valuable to us.

See you next year!

Gratefully yours,



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