

Topics in BioMedical Microscopy

Hosted by the Medical College of
Wisconsin

presented by

**Midwest Microscopy and Microanalysis Society
(M³S)**

A local affiliate of the Microscopy Society of America and the Microanalysis Society

Friday, October 13th, 2017

Medical College of Wisconsin

Alumni Center

(Directions and map below)

Please RSVP by Tuesday, October

10th to:

Secretary@midwestmicroscopy.org

Onsite Registration Fee:

Meeting Free for M³S members, \$20.00 for non-members, \$5.00 for students
(Fee includes M³S membership for 2017/2018)

We welcome vendor participation. Tables are available for \$100. Please contact Steve Nagy (stephan.nagy@zeiss.com) for details.

8:00 - 8:45AM

Registration

9:00 - 9:10AM

Welcome and Opening Remarks

9:10 - 9:55AM Cryo-EM tomography of RNA virus genome replication organelles

Paul Ahlquist - Paul J. Kaesberg Professor of Molecular Virology and Oncology at the University of Wisconsin, Madison, and John and Jeanne Rowe Chair in Virology at the Morgridge Institute for Research. (<http://www.hhmi.org/scientists/paul-ahlquist>)

9:55 - 10:40AM Multiscale imaging of the cellular microenvironment

Kevin Eliceiri - Director, Laboratory for Optical and Computational Instrumentation (LOCI Center) UW Madison (<https://loci.wisc.edu/people/kevin-elizeiri>)

10:40 - 11:10AM

Break - Visit with Vendors

11:10 - 11:55AM - Recent advances in confocal imaging (SIM, TIRF) including tissue clearing & co-localization

****KEY NOTE SPEAKER - Microscopy Society of America Tour Speaker****

Robert Price - Research Professor of Cell Biology & Anatomy, Director of the Instrumentation Resource Facility (IRF), University of South Carolina School of Medicine. (<http://dba.med.sc.edu/price.asp>)

11:55 - 1:10 PM

Lunch - Visit with Vendors

1:10 - 1:30PM Quantification of mitochondrial structure for the first time in Intact Arteries

Matthew J. Durand - Assistant Professor, Physical Medicine and Rehabilitation, Cardiovascular Center, Medical College of Wisconsin

1:30 - 1:50PM From micro to nano: Protein trafficking study by TIRF microscopy

Chen Chen - Postdoctoral Fellow, Medical College of Wisconsin, Barbieri Lab

1:50 - 2:10PM Microtubules and the ciliary photoreceptor

Tylor Lewis - Graduate Student, Medical College of Wisconsin, Department of Ophthalmology & Visual Sciences

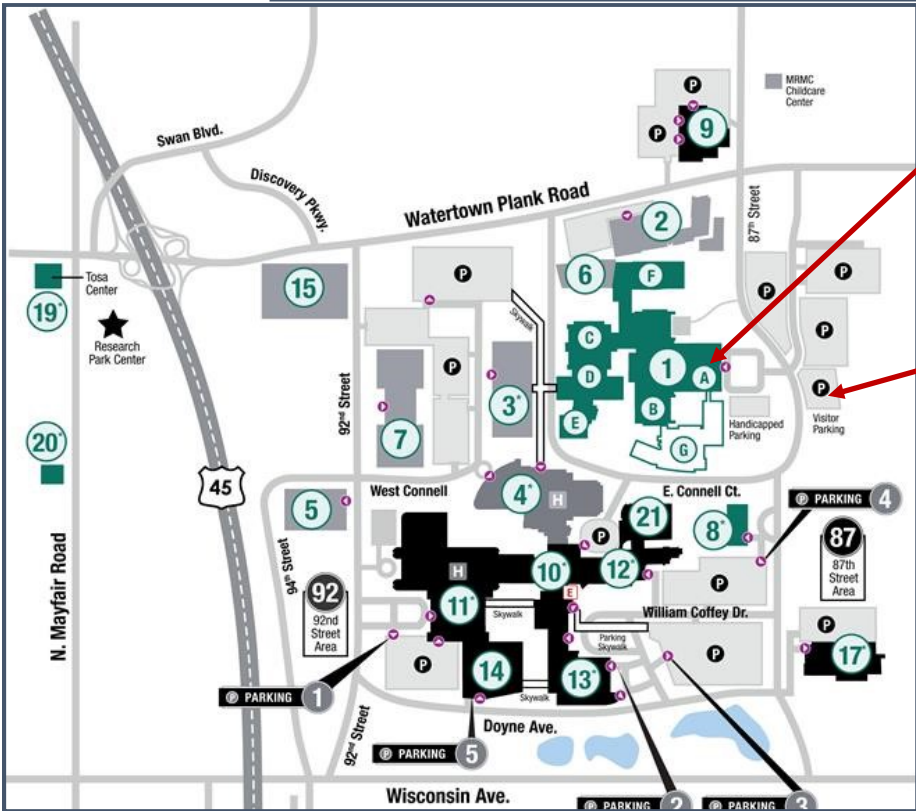
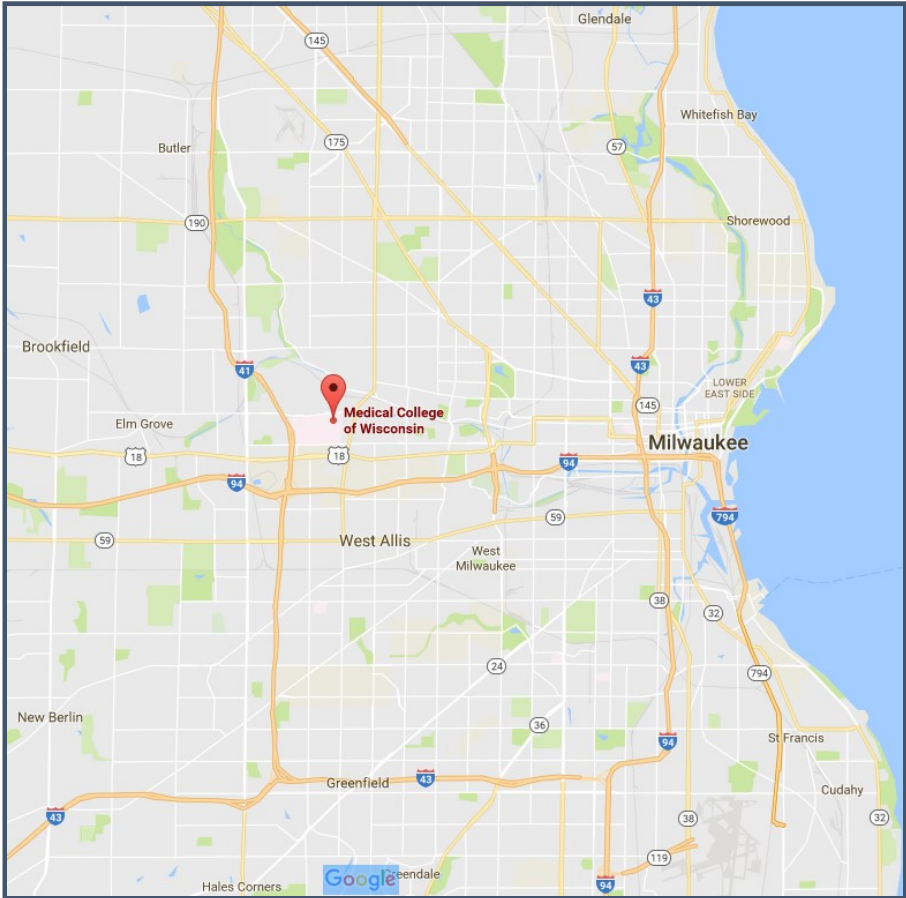
2:10 - 2:30PM Imaging and quantifying mitochondrial morphology

Megan C. Harwig - Research Scientist, Medical College of Wisconsin, Department of Biochemistry

2:30 - 2:50PM In vivo and ex vivo imaging of the ground squirrel retina

Benjamin S. Sajdak - Graduate Student, Medical College of Wisconsin, Department of Neuroscience, Advanced Ocular Imaging Program

Directions to the MMMS Meeting at the Wisconsin School of Medicine



**Medical College of Wisconsin
Alumni Center**
Meeting location: Building A

Parking is free
Located in Visitor's lot