

# Twenty-First Annual Research Symposium Biology and Therapy of the Ciliated Senses

*January 23, 2017*

## Guest Faculty

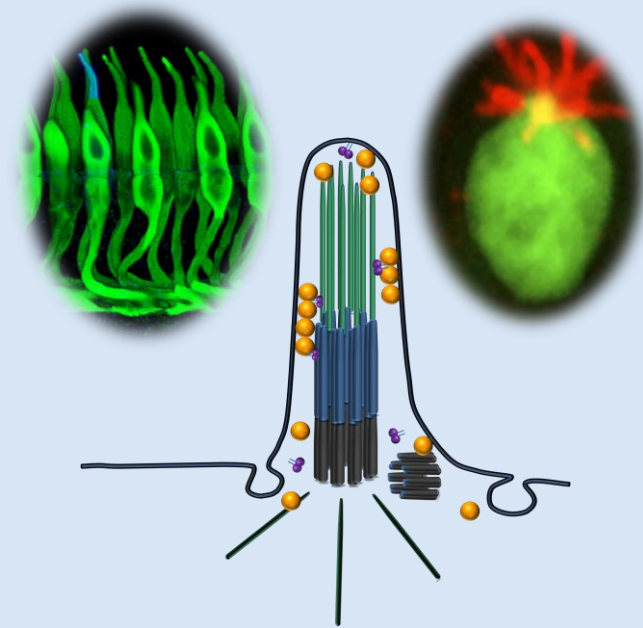
**Maureen Barr** (PhD) Professor, Rutgers University  
**Peter Calvert** (PhD) Associate Professor, SUNY Upstate University  
Hospital  
**Tamara Caspary** (PhD) Associate Professor, Emory University  
**Minghong Ma** (PhD) Associate Professor, University of  
Pennsylvania  
**Greg Pazour** (PhD) Professor, University of Massachusetts  
**Eric Pierce** (MD, PhD) Associate Professor, Harvard University  
**Randall Reed** (PhD) Professor, Johns Hopkins University  
**Val Sheffield** (MD, PhD) Professor, University of Iowa  
**Theodore Wensel** (PhD) Professor, Baylor College of Medicine  
**Bradley Yoder** (PhD) Professor, University of Alabama Birmingham

## University of Florida Faculty

**Jeffrey Martens** (PhD) Professor, Department of Pharmacology and  
Therapeutics  
**Shannon Boye** (PhD) Assistant Professor, Department of  
Ophthalmology

## Conference Support

**Center for Vision Research, University of Florida**  
*Mark Sherwood and Clay Smith, Directors*  
**Center for Smell and Taste, University of Florida**  
*Steven Munger, Director*



Presented by:



## Morning Session

- 7:30 -8:00 am *Breakfast (LG-110A/B)*
- Overview of Sensory Cilia** (LG-101A)
- 8:00 – 8:05 am *Welcome,*  
Clay Smith, Center for Vision Research  
Steve Munger, Center for Smell and Taste
- 8:05 – 8:35 am **“Interpreting Signaling through the Primary Cilium”**  
Tamara Caspary (Emory University)
- 8:35 – 9:05 am **“The Tubulin Code: Orchestrating Ciliary Diversity”**  
Maureen Barr (Rutgers University)
- 9:05 – 9:35 am **“IFT25 and IFT27 Couple the BBSome to the IFT particle for Maintenance of the Ciliary Signaling Compartment”**  
Greg Pazour (University of Massachusetts)
- 9:35 – 10:05 am *Discussion*  
Moderators: Steve Munger and Jeff Martens
- 10:05 – 10:25 am *Break (LG-110A/B)*
- Ciliary Biology and Signaling** (LG-101A)
- 10:25 – 10:55 am **“An Olfactory Cilia Pattern Ensures High Sensitivity to Odors”**  
Minghong Ma (University of Pennsylvania)
- 10:55 – 11:25 am **“Properties of Sensory Cilia Membranes Revealed by Monitoring Protein Transport in Living Cells”**  
Peter Calvert (SUNY Upstate)
- 11:25 – 11:55 am **“Emerging Approaches to Cilium Structure and Trafficking”**  
Ted Wensel (Baylor College of Medicine)
- 11:55 – 12:30 pm *Discussion*  
Moderators: Clay Smith and Astra Dinculescu
- 12:30- 1:15 pm *Lunch (LG-110A/B)*

## Afternoon Session

- Diseases of the Sensory Cilia** (LG-101A)
- 1:15 – 1:45 pm **“Building Sensory Cilia: Signals Localizing Transduction Proteins in Cells and Mice”**  
Randy Reed (Johns Hopkins University)
- 1:45 – 2:15 pm **“Retrograde IFT and Inherited Retinal Degenerations”**  
Eric Pierce (Harvard University)
- 2:15 –2:45 pm **“In vivo Analysis of Cilia Function and Connections to Renal Disease and Physiology”**  
Brad Yoder (University of Alabama Birmingham)
- 2:45 – 3:15 pm *Discussion*  
Moderators: Matt Sarkisian & Jeremy McIntyre
- 3:15 – 3:35 pm *Break (LG-110A/B)*
- Therapeutic Approaches for Ciliopathies** (LG-101A)
- 3:35 – 4:05 pm **“Gene Therapeutic Rescue of Olfactory Dysfunction”**  
Jeff Martens (University of Florida)
- 4:05 – 4:35 pm **“Gene Therapy for USH1B- Two Steps Forward, One Step Back”**  
Shannon Boye (University of Florida)
- 4:35 – 5:05 pm **“Comprehensive Approaches to the Treatment of Cilia-Related Retinal Disease”**  
Val Sheffield (University of Iowa)
- 5:05 – 5:30 pm *Discussion*  
Moderators: Bill Hauswirth & Edgardo Rodriguez
- 6:00 pm *Cocktails and Dinner Reception*  
  
(All conference attendees and speakers are invited to be our guest)
- New Deal Café -- 3443 West University Avenue