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# VISION SCIENCES CENTER

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## Upcoming Colloquium Presentations

November 8, 2017, 4pm



Ronald Gregg, PhD  
Professor and Chair  
Department of Biochemistry and Molecular Genetics  
“Architecture and Signaling at the First  
Retinal Synapse”

<http://louisville.edu/medicine/departments/biochemistry/faculty/gregg>

December 13, 2017, 4pm



William Guido, PhD  
Professor and Chair  
Department of Anatomical Sciences & Neurobiology  
“Organization of the Mouse Visual Thalamus”

<http://louisville.edu/medicine/departments/anatomy/facultylist/william-guido-phd>

January 10, 2017, 4pm



Yongqing Liu, PhD  
Associate Professor  
Department of Ophthalmology & Visual Sciences  
TBD

<http://www.louisvilleeyedocs.com/member/yongqing-liu-ph-d/research-faculty/>

## About the colloquium and newsletter:

We want to hear from you for our Visual Sciences Center bi-monthly newsletter. This lets us highlight your research as well as seminars in Vision Sciences. Please send us information about new research initiatives, outside speakers of interest and any grant awards.

We will continue to meet on the second Wednesday of the month in the DOVS basement conference room of the KY Lions Eye Center into 2018. If you know of others that would like to be a part of the Center, please have them send us an email.

Contact us:

Editor: Maureen McCall, Ph.D.  
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Erin Moody  
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SAVE THE DATE

WASHINGTON, DC  
NOVEMBER 11 - 15**November 12, 2017, 1:00 PM**

Session: Poster: 228 - Superior Colliculus: Sensory and Motor Functions  
Feedforward inhibitory circuits within the mouse superior colliculus

K. L. WHYLAND, S. P. MASTERSON, A. S. SLUSARCZYK, G. GOVINDAIAH, W. GUIDO, \*M. E. BICKFORD;  
Anatom. Sci. and Neurobio., Univ. of Louisville Sch. of Med., Louisville, KY

**November 12, 2017, 2:55 PM**

Session: Minisymposium: 180 - New Breakthroughs in Understanding the Role of Functional  
Interactions Between the Neocortex and the Claustrum - Solange Brown

Synaptic circuits of the claustrum: A comparison with the dorsal thalamus  
M. E. Bickford;

Anatomical Sciences and Neurobiology, University of Louisville School of Medicine, Louisville

**November 14, 2017, 8:00 AM**

Session: Poster: 491 - Visual Pathways: To and From the Cortex

Ultrastructural analysis of synaptic connectivity of local interneurons in the ferret visual thalamus

\*S. AHN<sup>1,2</sup>, V. SURESH<sup>2</sup>, A. KUMAR<sup>2</sup>, J. K. DAMRON<sup>3</sup>, J. A. HIRSCH<sup>1,2</sup>, M. E. BICKFORD<sup>3</sup>;

<sup>1</sup>Neurosci. Grad. Program, <sup>2</sup>Biol. Sci., USC, Los Angeles, CA; <sup>3</sup>Anatom. Sci. and Neurobio., Univ. of Louisville Sch. of Med., Louisville

## Additional Lectures of Interest

**Ophthalmology Research Seminar**

Shigeo Tamiya, PhD

Assistant Professor,

Department of Ophthalmology & Visual Sciences

Friday, December 8, 2017, 7:30am-8:30am

TBD

<http://www.louisvilleeyedocs.com/member/shigeo-tamiya-ph-d/research-faculty/>

**Stephenson Visiting Professor Seminar Series**

Jonathan J. Dutton, M.D., Ph.D.

Professor Emeritus, University of North Carolina

Friday, November 3, 7:30am-8:30am

"Eyelid Movement Disorders: Blepharospasm and Hemifacial Spasm"

<https://www.med.unc.edu/opth/meet-our-faculty/people/jonathan-j-dutton-m-d-ph-d-f-a-c-s>

Carla J. Siegfried, MD

Jacquelyn E. and Allan E. Kolker, MD Distinguished Professor of  
Ophthalmology

Washington University School of Medicine

Friday, December 1, 7:30am-8:30am

TBD

[http://vrcore.wustl.edu/siegfried\\_carla/Biography.aspx](http://vrcore.wustl.edu/siegfried_carla/Biography.aspx)

Please join us!



AMERICAN ACADEMY™  
OF OPHTHALMOLOGY  
Protecting Sight. Empowering Lives.

NEW ORLEANS Louisiana



AAO Annual DOVS

Alumni, Faculty and Friends Reception

Saturday, November 11, 6 pm- 8 pm

Westin New Orleans Canal Place

100 Iberville St, New Orleans, LA 70130

## Vision Sciences Retreat 2017



Our visual sciences community came together on September 6, 2017 for our 1<sup>st</sup> Vision Sciences Retreat at UofL. The visual sciences community at UofL continues to expand and has become one of the largest in academia. Our faculty and their research efforts are housed in the departments of Ophthalmology & Visual Sciences (DOVS), Anatomical Sciences & Neurobiology (ASNB), Biochemistry & Molecular Genetics (BMG), Pharmacology & Toxicology, Psychological & Brain Sciences (PBS) and Bioengineering. We receive financial support for our research from federal agencies (NIH, DOD), Research to Prevent Blindness, pharmaceutical companies and foundations.

The montage on the left shows some of our speakers. The retreat included a keynote address by Jose-Alain Sahel, MD (top) on “Cone – directed strategies in retinal dystrophies”. Fifteen laboratories presented a brief synopsis of their research interests and scientific expertise.

1<sup>st</sup> row: Wei Wang (DOVS), Bart Borghuis (ASNB), Hank Kaplan (DOVS)

2<sup>nd</sup> row: Aaron McGhee (ASNB), Doug Borchman (DOVS), Bill Guido (ASNB)

3<sup>rd</sup> row: Ron Gregg (BMB), Martha Bickford (ASNB), Qingxian Lu (DOVS), Hui Shao (DOVS).

4<sup>th</sup> row: Shigeo Tamiya (DOVS).

Bottom: Attendees discussed potential new collaborations. Sean Masterson (Bickford Lab) & Doug Borchman, Peter Campbell (Guido Lab) & Chris Brown (McGee Lab), Hank Kaplan & Bart Borghuis.

As a follow up to our retreat, the Visual Sciences Research (VSR) Collaborative Group met to discuss several initiatives to enhance our research effort. These include submissions of: a NIH NEI core grant proposal in 2018, a NIH training grant proposal to support graduate students and postdoctoral fellows, and collaborative R01 projects.

Our visual sciences community at UofL is in an exciting growth phase with a bright future.

Stay tuned for future developments and opportunities!

Vision Sciences Faculty on the Move



Dr. Maureen McCall (pictured left, DOVS) gave an invited address entitled: Diverse Glycinergic Receptor Subunits & Retinal Ganglion Cell Visual Function At the International Conference "Vision and Visions: Current Concepts and Future Challenges of Retinal Research" October 2 to 3, 2017, Hanse-Wissenschaftskolleg, Delmenhorst, Germany

Dr. Bart Borghuis (pictured right, ASNB) gave an invited address entitled: 'Understanding excitatory and inhibitory synaptic mechanisms in starburst amacrine cell direction selectivity' At the International Conference "MotionVision: Circuits, Computations and Behavior" October 30 – Nov 1, 2017, HHMI Janiela Farm Research Campus, Ashburn, Virginia, USA



Dr. Henry Kaplan (pictured left, DOVS) gave several invited addresses entitled: *'The role of glucose in cone photoreceptor rescue in RP.'* Annual Meeting of the American Society of Retinal Specialists; Boston, MA, August 11-15, 2017; Peking Union Medical College Hospital, Beijing, China, August 18 – 24, 2017; Indiana Academy of Ophthalmology; Indianapolis, IN, September 14-15, 2017; Annual meeting of the Retina Society, Boston, MA, October 4 – 6, 2017

I am grateful for the care and scientific endeavors provided at the University of Louisville Department of Ophthalmology & Visual Sciences!

Enclosed is my gift of: \$25 \$50 \$100 other \_\_\_\_\_  
(circle one)

\_\_\_\_ Please direct my gift to where it's needed the most. \_\_\_\_\_ Please direct my gift to \_\_\_\_\_

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