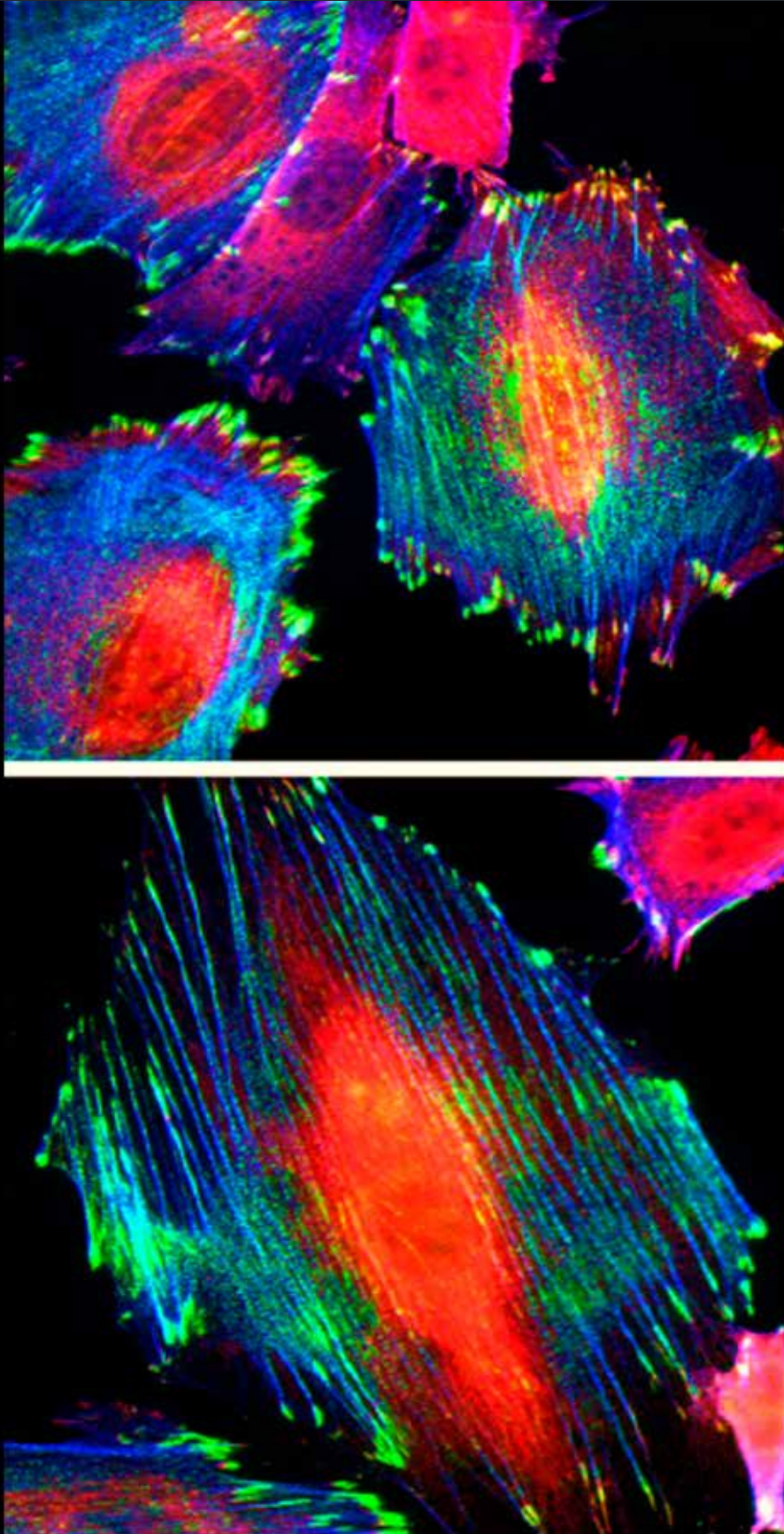




The Histochemical Society NEWSLETTER

October, 2015

Vol. 28 No. 3



In this Issue...

New HCS
Executive Director • 2

ICHC 2016
Istanbul • 2

2016 Annual Meeting
& Program • 3

2016 Meeting Deadlines • 3

New Education
Committee • 4-5

New Communication
Committee • 6

FASEB Roundtable
Reproducible Research • 7

IHCM Course 2016 • 8

Image courtesy of: Ioli Mitsou,
Hinke Multhaupt and John Couchman.

Primary mouse (upper) and rat (lower) fibroblasts immunostained for the focal adhesion components vinculin (red), TRPC7 ion channel (green). F-actin detected by phalloidin (blue) is also shown.

Meet the New HCS Executive Director



Having some very big shoes to fill with William Stahl's retirement, I am very excited to be working with your society. Bill has done a tremendous job with the society and journal; keeping the future in sight all along with a dedicated group of leaders. From my brief exposure, I see HCS represents a wonderful community, focusing on a science that offers broad reaching applications.

As a brief introduction, I used to work in the lab myself. In my undergraduate years, I worked in a Pathology Lab at GWU prepping slides for EM. Upon graduating, I worked in a military forensic lab doing mtDNA sequencing for identification purposes. After an extended sabbatical to raise my family, I joined FASEB nearly 10 years ago to work in society management. I enjoy using my organizational skills to facilitate society management while still being connected to my interests in the sciences.

HCS is on the cusp of a new era with two new committees and a strategic plan to keep the society relevant. It's an exciting time to be a part of HCS. Please feel free to contact me any time at jholland@faseb.org with your ideas for the society!



On October 1, I will retire as Executive Director of HCS. I am happy that Jennifer Holland at FASEB will be our new Executive Director. Please attend the HCS business meeting at EB2016 in San Diego to welcome her.
-Bill Stahl

ICHC2016 in Istanbul, Turkey.

The 15th International Congress of Histochemistry and Cytochemistry will be held in Istanbul, June 19-22, 2016. This meeting is held every four years and is sponsored by the International Federation of Societies for Histochemistry & Cytochemistry (IFSHC).

Please visit the meeting website for additional information at:

ICHC2016.com.

Details about the meeting will be posted on the HCS Facebook page:

www.facebook.com/histochem

and on the HCS webpage

www.histochemicalsociety.org

HCS Annual Meeting at EB2016

Experimental Biology 2016

San Diego Convention Center, San Diego, CA
(Saturday April 2, 2016 to Wednesday April 6th, 2016)

HCS PRELIMINARY PROGRAM

Molecular and Cellular Basis of Disease

Sunday, April 3, 8:30-10:30AM

All-Day Session in conjunction with the American Society for Investigative Pathology on Neuroimaging and Neuroinflammation

HCS/ASIP Symposium: The 3D Brain: From diffusion MRI to Ultrastructure

Each Talk: 35 minute + 5 minute questions

Chair: Douglas L. Rosene and TBD.

8:30-9:10AM

Title: *Diffusion MRI of the Brain Connectome: Problems and Possibilities*

Speaker: Van J. Wedeen, Massachusetts General Hospital and Harvard Medical School, Boston, MA

9:10-9:50AM

Title: *High-resolution Structural and Molecular Imaging of the Brain*

Speaker: Kwanghun Chung, MIT

9:50-10:30AM

Title: *Serial EM and 3D X-RAY views into Mouse and Monkey Brain Connectomes*

Speaker: Narayanan Kasthuri, Boston University School of Medicine

The Journal of Histochemistry & Cytochemistry Lecture

Chair: JHC Editor-in-Chief Designate: Stephen Hewitt, NIH

10:30-11:30AM

Speaker: Elizabeth Hillman, Biomedical Engineering and Radiology, Columbia University, NY

Title: *To be announced*

Important Meeting Deadlines

Abstract submission deadline: November 5, 2015 - 11:59PM EST.

The abstract submission website is now open.

When you register or submit an abstract for the EB2016 meeting please remember to tick the HCS membership category.

HCS awards deadline for EB2016: November 12, 2015
at <http://histochemicalsociety.org/Awards.aspx>

New HCS Education Committee Established

The HCS Council recently approved the formation of a new Education Committee devoted to further the education of future histochemists. Committee members include: Scott Tanner (Chair), Elizabeth Unger, Denis Baskin and Jennifer Thornsberry.

An important goal of the committee is to encourage and excite students and instructors about the beauty and usefulness of histochemical applications in an educational setting. The Committee is exploring ways to effectively engage undergraduate students in histochemistry and histochemical research. This involves determining the need for immunohistochemistry lab re-

sources for effective educational opportunities for students, particularly those at smaller institutions with fewer financial resources. In order to determine how best to support these activities the Committee has developed a questionnaire that will be made available to faculty at selected smaller institutions.

The Committee looks forward to serving the Society! If you have any questions or suggestions, please contact Scott Tanner at: stanner@limestone.edu

Education Committee Members



Scott Tanner, Chair, is an Assistant Professor of Biology at Limestone College in Gaffney, South Carolina. He teaches Introduction to Biology, Fundamentals of Biology, Human Biology, Genetics, Immunology and Biochemistry. Scott develops small research projects with undergraduates, helping them to prepare for graduate and professional schools. He continues to publish both pedagogical and scientific papers.

Scott has received several awards from the Histochemical Society and was awarded the Fullerton Award for Teaching Excellence by the faculty at Limestone College.
stanner@limestone.edu



Elizabeth R. Unger is Acting Chief, in the Chronic Viral Diseases Branch (CVDB) of the CDC. She is a Past-President of the Histochemical Society and serves on the Editorial Board of the Journal of Histochemistry and Cytochemistry.

Her research involves public health studies encompassing molecular pathology of HPV and Chronic Fatigue Syndrome.

She also has a long-standing interest in undergraduate education.

cont. next page...

Education Committee Members *cont...*



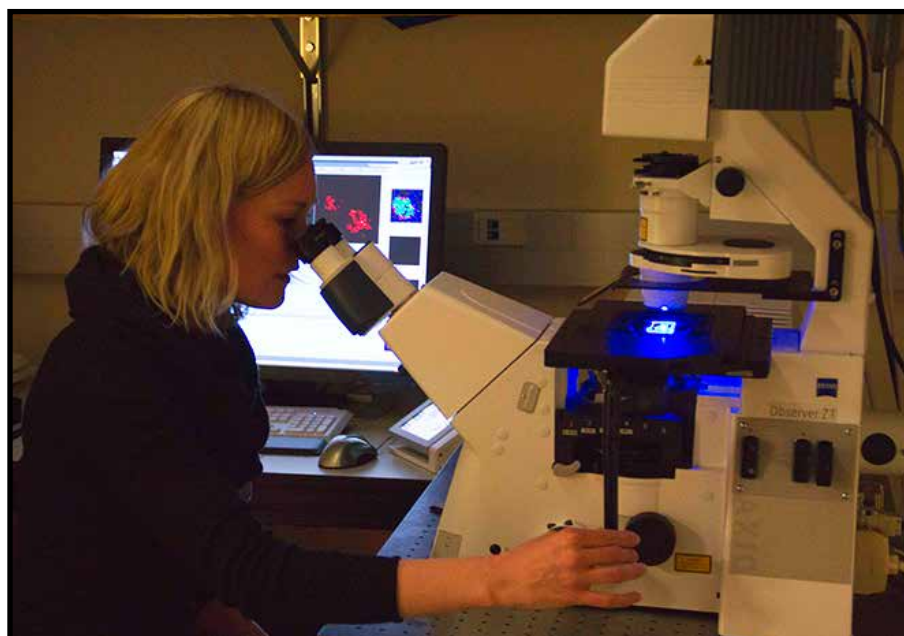
Denis G. Baskin is Senior Research Career Scientist at the VA Medical Center and is Research Professor of Medicine at the University of Washington, Seattle. He is a Past President of the Histochemical Society and Executive Editor of the Journal of Histochemistry & Cytochemistry.

He is co-founder of the Immunohistochemistry and Microscopy Course taught by HCS at the Marine Biological Laboratory at Woods Hole. Formerly an Associate Professor of Biology at Pomona College, Denis feels a strong commitment to providing faculty of teaching



Jennifer Thornsberry is Biology Lab Coordinator at Lebanon Valley College, Annville, Pennsylvania. She teaches General Biology Labs and develops new laboratory exercises on a yearly basis. She is in charge of all the General Biology Laboratory Assistants and greenhouse workers. In addition Jen is in charge of the greenhouse on campus.

Jen brings additional first hand experience related to teaching biology to undergraduates to the committee.



Student in the microscopy lab at Immunohistochemistry and Microscopy Course 2015

New HCS Communications Committee Established

The HCS Communications Committee was recently constituted. The committee is charged with managing the dissemination of the views of The Histochemical Society in social media and is seeking volunteers from the Society to help with its work. Current activities include oversight and posts for the HCS and JHC Facebook pages

Paul Goodwin is Chair, additional members will be appointed.

Please visit the Society and *JHC* FB pages and **LIKE, SHARE** and **COMMENT** on the posts.

Histochemical Society- for updates about members, announcements about meetings and more please follow us at:

www.facebook.com/histochem

Journal of Histochemistry & Cytochemistry - for announcements about article and feature posts on authors please follow us at:

www.facebook.com/jhc.org

Communications Committee Members



Paul Goodwin, Chair is the Science Director for GE Healthcare, Life Sciences. He works out of the Life Sciences offices in Issaquah, WA, about 15 miles (24km) east of Seattle, WA. As Science Director, Paul works with technical and strategic planning for Life Sciences. His own expertise is in microscopy, 3D imaging, image analytics, and scientific instrumentation.

He has been a constant supporter of, and instructor at the Immunohistochemistry and Microscopy Course at Woods Hole, Ma. where he teaches along side many other member of the Histochemical Society.

Paul also teaches at AQLM and OMIBS courses at Woods Hole, MA, holds an affiliate faculty position in the Department of Comparative Medicine at the University of Washington, Seattle, WA, and is an Industrial Fellow in the Laboratory for Systems Pharmacology at Harvard Medical School. Paul is also a Counselor of the Histochemical Society.

Paul likes to cook and entertain, play guitar, and works with an organization that supports orphan-ages in Latin America and the Caribbean. His favorite wanderings include Single Malt Scotch and contemplating quantum electrodynamics, fluorescence, and Facebook posts, sometimes simultaneously.

FASEB Roundtable on:

Rigorous and Reproducible Research Using Antibodies

Denis Baskin, Executive Editor of The Journal of Histochemistry & Cytochemistry, attended the “FASEB Roundtable on Rigorous and Reproducible Research using Antibodies”, held on Sept 20, 2016 at FASEB offices in Bethesda.

Participants in the roundtable included representatives from FASEB societies, FASEB officers, academic experts on the use and applications of antibody technology, representatives of commercial manufacturers of antibodies, and developers of antibody databases.

The motivation for this roundtable was the developing concerns in the biomedical research community regarding allegations of the inability to reproduce published findings. Moreover, NIH has announced new requirements for grant applications that include the authentication of all research reagents including antibodies beginning in 2016. The goal of this roundtable was to develop consensus principles to guide investigators in validating antibodies for the various analytical techniques that employ these reagents, with the vision that researchers could cite these principles in their grant applications to fulfill the new NIH requirements.

Following a morning of presentations by invited speakers, the afternoon session was devoted to discussion of relevant issues. These included definitions, information, and controls required to validate antibody specificity and standardization of protocols to ensure reproducibility and validity of experimental findings. While the group’s discussion covered diverse antibody-based methods, the focus mostly centered on western immunoblots and immunohistochemistry.

It is worth noting that the basic recommendations for immunohistochemistry emanating from this roundtable were essentially the same as those published recently in The Journal of Histochemistry and Cytochemistry article, “**Controls for immunohistochemistry: the Histochemical Society’s standards of practice for validation of immunohistochemical assays**” by Stephen Hewitt et al. (*Journal of Histochemistry & Cytochemistry* 2014 Oct;62:693-7).



The full article may be viewed at

<http://jhc.sagepub.com/content/62/10/693.full>

Immunohistochemistry and Microscopy (IHCM) Course 2016



Course Date: March 12 – 17, 2016
Registration Deadline: January 20, 2016
Directors: Eduardo Rosa-Molinar, The University of Kansas and Charles W. Frevert, University of Washington School of Medicine

IHCM 2016: The Histochemical Society (HCS) developed and began teaching an immunohistochemistry (IHC) course in 2008. The course was initially presented as a one-day workshop at the 2008 and 2009 Experimental Biology meetings in San Diego and New Orleans, respectively. In 2010, the first HCS hands-on immuno-

histochemistry and microscopy (IHCM) course was held at the Marine Biological Laboratory (MBL) in Woods Hole, MA. The course was organized, administered, and taught by faculty from HCS and used the extensive resources and facilities of the MBL. HCS faculty will be teaching the IHCM Course again this spring.

Course Outline: The course is four full days and evenings (11 hours daily) of lecture and laboratory sessions with experts in the field of IHC and microscopy. The goal of the course is to provide participants in-depth theory of and extensive hands-on experience with IHC techniques as well as theory and hands-on experience with a broad range of microscopic imaging techniques. The course emphasizes hands-on laboratory time and small breakout discussions with faculty and staff. The students' laboratory work was integrated with lectures and combined with the use of a range of microscopic techniques to capture and analyze images from their slides. A key element of the course has been an integrated approach developed by academic, industry, and technical faculty to provide a range of learning opportunities and support for students.

Who Should Attend: This course is appropriate for undergraduate and graduate students, laboratory technicians, postdoctoral students, new and established faculty/clinicians seeking to expand their techniques and knowledge of IHC and microscopy. It is appropriate for beginning scientists and those with more advanced skills. Participants will be grouped appropriately. Registration is limited to thirty.

REGISTRATION AND AWARDS

There are more applicants than available slots for the Course. Early application for the Course at the MBL site is recommended. Students accepted into the course will be notified shortly after the registration deadline.

For further information visit:

<http://www.mbl.edu/education/special-topics-courses/immunohistochemistry-and-microscopy-ihcm/>

Registration Deadline: January 20, 2016.

Histochemical Society Travel awards are available to support attendance at this course.

For information regarding eligibility and other details visit:

www.histochemicalsociety.org/Awards.aspx.

HCS Committees 2014-2015

Awards and Membership Committee

Margarida Barroso, Chair

Scott Tanner
Jim Mandell
Denis Baskin
Eduardo Rosa- Molinar
Alejandro Adam
Stephanie Brosius
Delphine Gomez
Douglas Taatjes

Program Committee

Charles Frevert, Chair

John Couchman
Rebecca Hull
Paul Goodwin
John Shacka
Stephen Hewitt
Doug Rosene
Nancy Sawtell

Finance Committee

James Mandell, Chair

Charles Frevert
Margarida Barroso
Stephen Hewitt

Publications Committee

Elizabeth Unger, Chair

Toyshio Fujimoto
James Mandell
Robin Lorenz
Margarida Barroso
Stephen Hewitt
Denis Baskin, *ex officio*
John Couchman, *ex officio*

Education Committee

Scott Tanner, Chair

Jennifer Thornsberry
Denis Baskin
Elizabeth Unger

Communications Committee

Paul Goodwin, Chair

Other committee members to be announced

The Histochemical Society

Page Messages Notifications Insights Publishing Tools

Courtesy of: Tom Wight & Stephen Evanko

Visit the HCS Facebook Page at:
<https://www.facebook.com/histochem>

 The Histochemical Society
Non-Profit Organization

Create Call to Action Share

Timeline About Photos Likes More

Journal of Histochemistry and Cytochemistry

Editorial Office

FASEB

Office of Publications
9650 Rockville Pike
Bethesda, MD 20871
Email: johc@faseb.org

Editor-in-Chief

John R. Couchman
Email: johc@faseb.org

Publication Office

Mailing Address:

Office of Publications
9650 Rockville Pike
Bethesda, MD 20814
Phone: 301-634-7100
Fax: 240-407-4430
Email: johc@faseb.org

Executive Editor

Denis G. Baskin
Email: baskindg@uw.edu

Managing Editor

Cody Mooneyhan
Deputy Director of Publications
FASEB Office of Publications
9650 Rockville Pike
Bethesda, MD 20871
Tel: 301-634-7104
cmooneyhan@faseb.org
or contact
Chanel George
Tel: 301-634-7791
cgeorge@faseb.org

The Histochemical Society

Administrative Office

Mailing Address

The Histochemical Society
9650 Rockville Pike
Bethesda, MD 20871
(phone) 301-634-7814
(fax) 301-63-7455

Executive Director

Jennifer Holland
Email: jholland@faseb.org

Executive Secretary (Member Services)

Eleanor Peebles
FASEB, Bethesda
E-mail: epeebles@faseb.org

The Histochemical Society

Officers

President

ROSENE, Douglas
(2015-2017)
Boston University Medical Center
E-mail: drosene@bu.edu

President-Elect

BARROSO, Margarida
(2015-2017)
Albany Medical College
E-mail: barrosm@mail.amc.edu

Immediate Past-President

FREVERT, Charles W.
(2015-2017)
University of Washington
E-mail: cfrevert@uw.edu

Secretary/Treasurer

MANDELL, James W.
(2015-2018)
University of Virginia
E-mail: jwm2m@virginia.edu

Councilors

GOODWIN, Paul
(2013-2017)
AppliedPrecision/GE,
paul.goodwin@ge.com

LORENZ, Robin G.
(2014-2018)
University of Alabama
at Birmingham
E-mail: rlorenz@uab.edu

ADAM, Alejandro
(2015-2018)
Albany Medical School
E-mail: adama1@amc.eduS

CARROLL, Steven
(2015-2019)
Medical University
of South Carolina
E-mail: corrolst@musc.edu

SCHAEFER, Liliana
(2015-2019)
Goethe Universität am Main
E-mail:
schaefer@med.uni-frankfurt.de