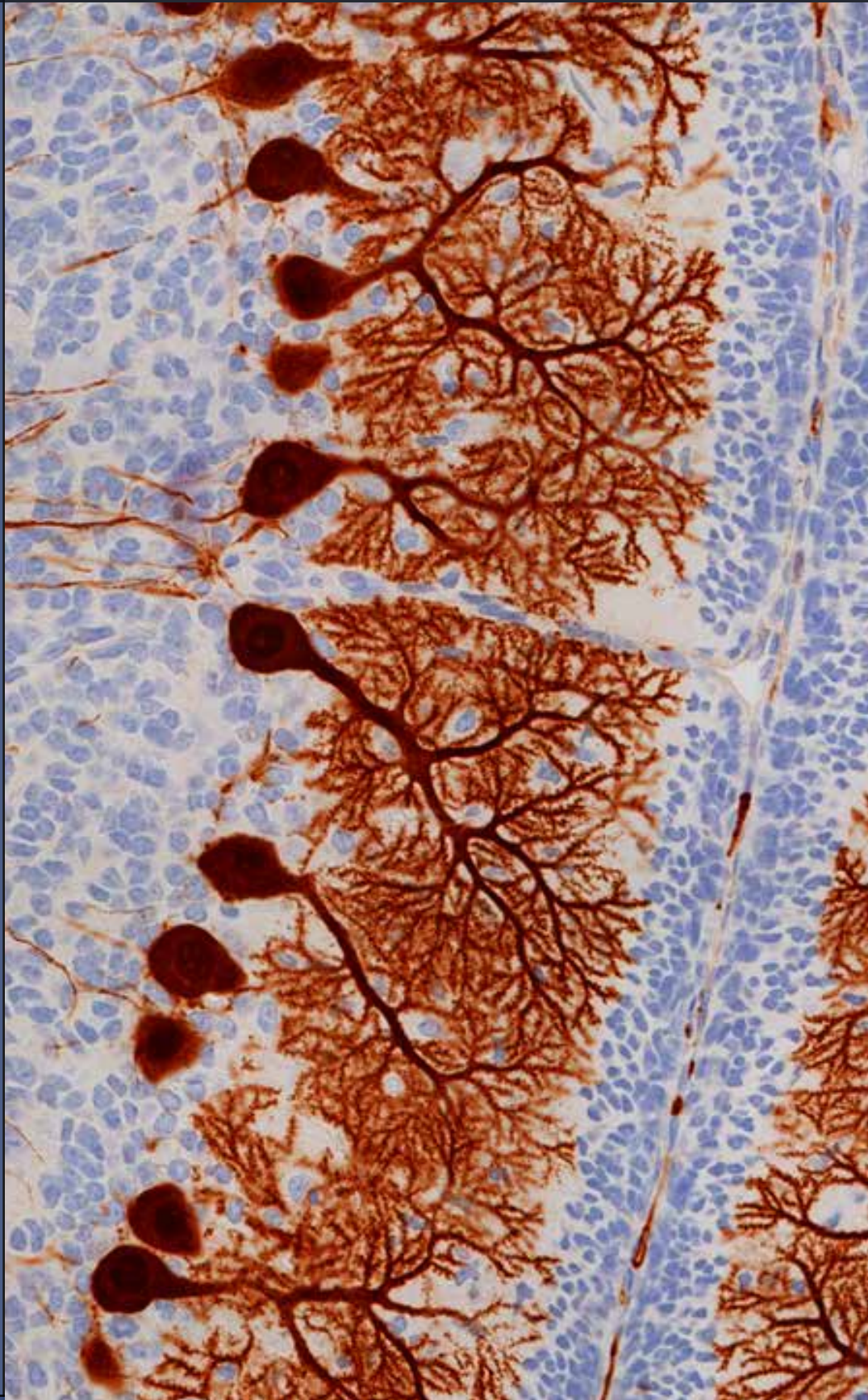




# The Histochemical Society NEWSLETTER

March 2015

Vol. 28 No. 1



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Courtesy of: Brian Johnson,  
University of Washington, School  
of Medicine, Histology and Imaging  
Core, Seattle, WA

Calbindin-D28 immunohistochem-  
istry of mouse brain (Purkinje cells;  
formalin fixed paraffin embedded  
tissue).



# A Letter to HCS Members....



Dear HCS Members,

I would like to apprise the membership of HCS on a number of developments that have occurred over the last six to seven months. An important development was the renegotiation of our contract with Sage Publishing, the publisher of the *Journal of Histochemistry & Cytochemistry*. The negotiations with Sage Publishing was spearheaded by William Stahl, PhD, our Executive Director, who worked closely with Jennifer Pesanelli, Deputy Executive Director for Business Development & Director of Publications at FASEB and the HCS Council. Bill and Jennifer did an excellent job during the negotiations to make sure that the new contract was in the best interest of the Society. I am very pleased to report that the new contract insures the financial stability of HCS for the next six years and allows the HCS to continue providing the scientific community with a high quality journal.

In addition to renegotiating our contract with Sage, John Couchman, the current Editor-in-Chief (EIC) of the *Journal of Histochemistry & Cytochemistry* ends his term on December 31, 2015. In order to find a suitable replacement an EIC search committee was formed. The JHC EIC search committee members included Denis Baskin (Chair), Robin Lorenz, Brad Schulte, Gwen Childs and Dale Abrahamson plus ex officio members Beth Unger (HCS Publications Chair), Charles Frevert (HCS President), Bill Stahl (HCS Executive Director) and Jennifer Pesanelli (FASEB). The first meeting of the EIC search committee was held at the HCS Annual meeting in San Diego last March. After interviewing a number of excellent candidates for this position the EIC search committee recommended one candidate to Council, which voted unanimously for the new EIC. Official announcements on the EIC will be made at the HCS annual business meeting in Boston on March 29<sup>th</sup>, 2015. The new EIC will begin the new term effective January 1, 2016. However, before we look forward to having a new EIC I want to thank John Couchman for the excellent job he has done as the Editor-in-Chief of the *Journal of Histochemistry and Cytochemistry*.

On January 29<sup>th</sup>, the HCS Council met with several of the past HCS presidents for a one-and-a-half day strategic planning meeting at the FASEB campus in Bethesda, MD. The goal of this meeting was to discuss the governance and management of the Society and Journal. A more comprehensive report of this meeting is being written by the meeting Coordinator, Joan Goldberg of Strategic Assessment & Solutions. Council has already begun to work together to make decisions about the future management of HCS and JHC and is developing short- and long-term goals to improve the identity and relevance of our Society and Journal within the scientific community. We will be devoting future newsletters to a more in depth review of the strategic planning meeting and how we plan to use this as a road map for the future. In addition, we will discuss the strategic planning meeting at the HCS Annual Meeting in Boston, MA on March 29<sup>th</sup>, 2015.

There are a number of upcoming events that will continue to highlight the role of HCS in educating the scientific community about histochemistry and imaging. The first is the HCS hands-on **Immunohistochemistry & Microscopy (IHCM)** special topics course that has been held at the Marine Biological Laboratory (MBL) in Woods Hole, MA since 2010. In 2013 IHCM became a special topics course offered and managed by the MBL Education Department. This four day course has been very successful, providing students with hands on laboratory experience integrated with lectures and access to a range of microscopic techniques to capture and analyze images from their slides. A key element of the course is the integrated approach that was developed by academic, industry, and technical faculty to provide a range of learning opportunities and support

cont. next page..

## A Letter to HCS Members *cont....*

for students. This year the IHCM special topics course will be held from March 14<sup>th</sup> to 19<sup>th</sup> and 32 students were accepted into the course. One of the trends that we are seeing in the past two years is that more post-docs, PIs and faculty are taking part in this course. The makeup of the course includes three students who are undergraduates, three students who are technicians, 11 students in graduate school, six students that are in post-doctoral training programs and seven students who are either PIs or faculty. There is also considerable diversity in our class with 21 female students and 10 minority students. The class also has an international contingency with 12 foreign students from Bangladesh, India, Thailand, The Philippines, Nigeria, Israel, Brazil, Mexico, Turkey, The Czech Republic and China. If you are interested in finding out more information about the IHCM special topics course you can visit the IHCM Course website at:

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

The second event is the Histochemical Society's 66<sup>th</sup> annual meeting. It will be held in conjunction with Experimental Biology 2015 (EB2015) at the Boston Convention & Exhibition Center, Boston, MA where we will again be a guest society of the American Society for Investigative Pathology (ASIP). An advantage of holding our annual meeting with ASIP is that it allows us to highlight the strengths of our Society and Journal and provides a forum to highlight state-of-the-art advances in histochemistry and imaging. The Program Committee has done an excellent job in putting together two outstanding symposia. The first Symposia entitled, "**Unlocking New Tools for Experimental Pathology: Advances in Detection Systems, from Super Resolution Microscopy to Whole Animal Imaging**" will be held on Saturday Afternoon, March 28<sup>th</sup>. The second Symposia entitled "**Advanced Imaging Techniques and Systems: Super Resolution Microscopy**" will be held on Sunday morning, March 29<sup>th</sup>, 2015 followed by the JHC Lecture. A more detailed list of events occurring at the HCS Annual meeting can be found in this newsletter and the HCS website at: <http://histochemicalsociety.org>

I hope to see you at EB2015 and the **HCS Annual Business Meeting and Awards Reception**, which will be held at Renaissance Boston Waterfront Hotel in the Atlantic Ballroom 3 on March 29<sup>th</sup> at 6:30 to 8:30 PM.

**Charles Frevert**  
President, HCS



## James B. Longley

James B. Longley, Ph.D., a long-time member of the Histochemical Society, passed away at the age of 93 on May 1, 2014. Jim served on the Histochemical Society Council in 1974-1979 and also served on the Editorial Board of *the Journal of Histochemistry & Cytochemistry*. A native of Maryland, he served in the U.S. Army in World War II and saw combat in the Battle of the Bulge. After the war he received his doctorate in zoology at Cambridge followed positions at NIH and Georgetown University. From 1962 to 1989 he served as Professor and Chairman of the Anatomy Department at the University of Louisville School of Medicine. His research focused on the application of histochemical techniques to renal function and pathology. Jim was a regular attendee at HCS annual meetings for many years. His colleagues recall him as a warm, friendly gentleman, a sharp mind and wit, always smiling and cheerful. We express our condolences to his family.

- D.G. Baskin

# HCS Thanks the IHMC Faculty ....

The Histochemical Society thanks the faculty members listed below for their work at the 2015 Immunohistochemistry & Microscopy Course. Without their significant donations of time and knowledge the IHMC Course would not be possible.

## ACADEMIC FACULTY

**Denis G. Baskin** is a Senior Research Career Scientist at the VA Puget Sound Medical Center and Research Professor of Medicine and Biological Structure at the University of Washington School of Medicine in Seattle.

**Charles W. Frevert** is an Associate Professor in the Department of Comparative Medicine at the University of Washington School of Medicine.

**Stephen M. Hewitt** is a Clinical Investigator at the Center for Cancer Research, National Cancer Institute.

**Eduardo Rosa-Molinar** is Associate Professor of Biology at the University of Puerto Rico – Rio Piedras.

**William L. Stahl** is Professor Emeritus of Physiology and Biophysics and Neurology, University of Washington School of Medicine.

## INDUSTRY FACULTY

**Matthew Gastinger** is the Technical Support Specialist with Bitplane/Andor Technology, providing direct customer support for the Imaris 3D/4D image analysis software.

**Paul Goodwin** is Director of Advanced Applications at Applied Precision, Inc. where he directs the DeltaVision OMX Super Resolution Microscopy System project, provides analysis of emerging technologies and applications, and directs extramural research.

**Jim McIlvain** is Carl Zeiss Liaison to the MBL, Sr App Specialist LM EM and CorrMlc at Carl Zeiss Microscopy LLC.

**Mark Clymer** is Director of Marketing, CHROMACAL, a trademark of Datacolor Inc. The CHROMACAL Color Calibration System for optical microscopy provides a color profile foundation from which images can be more reliably compared and analyzed.

**Jerry Sedgewick** is the founder of Image Analysis Inc. He is the author of Quick Photoshop for Research: A Guide to Digital Imaging for Photoshop 5x, 6x and 7x and has multiple publications on the subject on imaging and scientific misconduct.

## TECHNICAL FACULTY

**Martha A. Delaney** is a veterinary pathologist in the Department of Comparative Medicine and doctoral degree candidate in the graduate program in the Department of Pathology at the University of Washington School of Medicine. She will be working with the students on the chromogen protocol.

**Brian Johnson** is a Research Scientist in the Department of Comparative Medicine at the University of Washington School of Medicine.

**Noraida Martinez-Rivera** is a doctoral degree candidate in the Graduate Program in the Department of Biology at the University of Puerto Rico-Rio Piedras. She will be working with the students on fluorescence and confocal imaging.

**Irma Torres-Vasques**, is a teaching technician in the Department of Biology and a research technician in the Biological Imaging Group at the University of Puerto Rico-Rio Piedras. She will be working with the students on the fluorescence protocol.

# HCS Thanks the IHMC Sponsors ....



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<http://histochemicalsociety.org>



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[www.imagingandanalysis.com/consulting.html](http://www.imagingandanalysis.com/consulting.html)



<http://scientific.datacolor.com/>



## HCS Strategic Planning Meeting




The HCS Strategic Planning Meeting was held January 30-31, 2015 at the Beaumont campus of FASEB in Bethesda, MD. The sessions were led by Joan Goldberg of Strategic Assessment Solutions. Prior to the meeting members of the Society were polled regarding key issues related to HCS.

The Strategic Planning group carried out an in depth analysis of the current status of the Society including governance, management, membership, finances, awards, annual meetings, communication opportunities and a wide range of other issues related to the mission and potential growth of HCS. A plan is being developed to implement recommendations of the participants at the meeting. This plan will be presented to Council at the upcoming 2015 Meeting.

Pictured Above:

Left to Right: Cody Mooneyhan(FASEB), Bill Stahl, Doug Rosene, Margarida Barroso, Robin Lorenz, Chuck Frevert, John Couchman, Beth Unger, Nancy Sawtell, Stephen Hewitt, Ed Rosa-Molinar, Paul Goodwin, Denis Baskin, Jim Mandell and Jennifer Pesanelli(FASEB). Not shown: Joan Goldberg.



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## Facebook Pages Have Global Following

The Histochemical Society maintains two Facebook Pages, one for **The Journal of Histochemistry & Cytochemistry** and another for **The Society**.

Facebook provides a service to its commercial and non-profit pages that provides information on who follows and likes a page (Fans). This service is called 'Insights'. Statistics are tabulated and displayed in graphs and lists, the purpose of this information is to target prospective customers. Facebook's goal is, of course, to generate revenue through advertising and boosting. Access to the information is free and advertising is not required.

Note: The Insights service is not available on individual pages, nor does it disclose personal or private information about individual Fans. So, feel free to like pages!

Here is some information from Insights on the JHC and HCS Facebook pages:

The reach of both pages is truly global, with most fans located outside of the U.S.

Both pages have a growing fan base.

Over the last year the fan base of the JHC page has grown by 57% and the HCS page has grown by 72%.

Most of this growth has occurred in the last 6 months.

Demographics:

Gender

HCS fans are 45% Women and 53% Men

JHC fans are 48% Women and 50% Men

Age

62% of HCS fans are between the ages of 18 and 44

74% of JHC fans are between the ages of 18 and 44

Note: Some fans are businesses, not people, and not all people designate their age or gender on Facebook.

Geographic Distribution

HCS Facebook page Fans are located in:

United States - 42.5%

Egypt - 6.1%

Brazil - 5.6%

Thailand - 3.5%

Other fans are spread across the globe from, Germany, Turkey, New Zealand, Nigeria and elsewhere.

JHC Facebook page Fans are located in:

United States - 22.4%

Chile - 10.5%

Egypt - 8.4%

Brazil - 5.6%

Other fans are located in Canada, Spain, Bangladesh, South Korea and many other countries.

**Join your colleagues from around the world on Facebook at:**

**The HCS Facebook page is located at: <https://www.facebook.com/histochem>**

**The JHC Facebook page is located at: <https://www.facebook.com/jhc.org>**

Please contact Bill Stahl at: [wlstahl@uw.edu](mailto:wlstahl@uw.edu) if you have suggestions for posts.

- K.L. Stahl

## HCS/ASIP SYMPOSIA FOR HCS/EB2015 ANNUAL MEETING

**Location:** Boston Convention & Exhibition Center, Boston, MA

**Dates:** Saturday, March 28th to Wednesday, April 1st, 2015

### **ASIP ROBERT STOWEL ENDOWED LECTURE SERIES**

**SYMPOSIUM:** *Unlocking New Tools for Experimental Pathology Advances in Detection Systems, from Super Resolution Microscopy to Whole Animal Imaging*

Date: **Saturday, March 28th, 2:00 to 5:00 PM**

Symposium Chairs: **James Mandell and Stephen Hewitt**

#### ***Talks for Symposium***

1. **Joshua C. Vaughan**, University of Washington, Seattle, WA,  
Title: *New fluorescent probes for super-resolution imaging.*
2. **Jessica L. Mark Welch**, Marine Biological Laboratories, Woods Hole, MA,  
Title: *Analyzing spatial organization in the human microbiome using multiplexed fluorescence in situ hybridization*
3. **Claude Pierre Lechene**, Brigham and Women's Hospital, Boston, MA,  
Title: *Quantitative imaging of subcellular metabolism with stable isotopes and mult-isotope maging mass spectrometry*
4. **Justin Grant**, STTARR Imaging, Toronto, ON,  
Title: *A Multimodal Imaging Agent for Correlative Investigations: from Whole Body in vivo Imaging to ex vivo Tissue Microscopy.*

**SYMPOSIUM:** *Advanced Imaging Techniques and Systems: Super Resolution Microscopy*

Date: **Sunday, March 29th, 8:30 -10:30 AM**

Symposium Chairs: **Paul Goodwin, Doug Rosene**

#### ***Talks for Symposium***

1. **Ann McEvoy**, GE Health Care/API, Issaquah, WA  
Title: *From localization microscopy to structured illumination microscopy*
2. **Travis Gould**, Bates College, Lewiston, Maine  
Title: *Adaptive optics (STED) microscopy*
3. **Laurence Pelletier**, Mount Sinai Hospital, Toronto, Canada  
Title: *Amorphous no more: subdiffraction view of the pericentriolar material architecture*

### **JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY LECTURE**

Date: Sunday, March 29th, 10:30 to 11:30 AM

Symposium Chair: **John Couchman**

#### **Speaker**

**Gaudenz Danuser**, Professor of Cell Biology, UT Southwestern, Dallas, TX

Title: *Computer vision of cell dynamics*



## HCS 2015 Annual Meeting

**Location:** Renaissance Boston Waterfront Hotel  
Atlantic Ballroom 3

**Date:** Sunday, March 29th  
6:00 - 8:00 PM

You are invited to attend the HCS Annual Business and Awards Meeting. Awards will include the Gomori, The Carpenter-Rasch and travel awards. It is an opportunity to meet with colleagues and renew friendships in a casual setting.

Complementary refreshments will be served.  
*Please bring a colleague.*

### AWARDS:

The **George Gomori Award** is the highest award of the Society and recognizes outstanding scholarship in histochemistry and cytochemistry and is awarded once every four years. The recipient at the Business Meeting of HCS is Ron Van Noorden of the University of Amsterdam.

The **Carpenter-Rasch Award** recognizes outstanding service to the Society and recognizes efforts and contributions of Drs. Anna-Mary Carpenter and Ellen M. Rasch. Heinz-Ulrich Weier of the Lawrence Berkely National Laboratory will receive the award at the Business Meeting.

## Scientific Interest Group

**Location:** Renaissance Boston Waterfront Hotel, Pacific Grand Ballroom ABCD

**Date:** Tuesday March 31st  
5:30 - 7:30 PM

<http://asip.org/SIGS/IHM/>

Description: The session is open to all. All of the ASIP Scientific Interest Group Poster Sessions will be held at the same time in the same location. Select posters from each Scientific Interest Group will be on display for informal discussions.

The objectives of the **IHCM SIG** are to:

Provide a forum for discussion concerning the application of immunohistochemistry in biomedical science

Disseminate guidance to the community on development of specific and robust chromagen- and fluorescent-based immunohistochemical assays.

Promote new approaches and applications of immunohistochemistry.

Provide a venue of exchange to address challenges researchers encounter in immunohistochemistry.

Provide a forum for discussion on advances in microscopy, imaging, image analysis and quantitative microscopy.

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