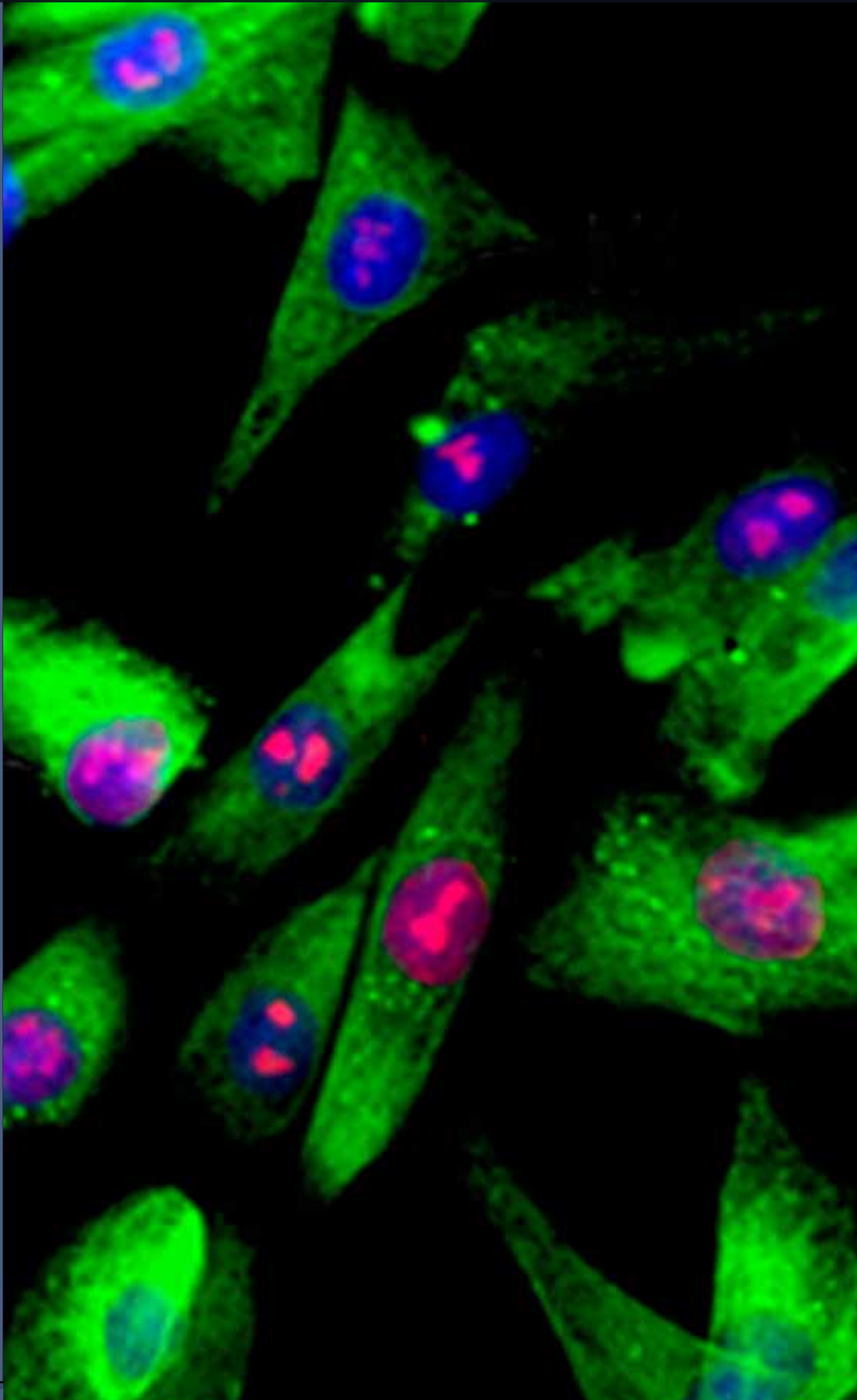




The Histochemical Society NEWSLETTER

Spring 2012

Vol.25 No.2



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Human muscle precursor cells
under proliferation conditions
expressing desmin (green) and
Ki67 (red); DNA is labeled with
Hoechst (blue).

Courtesy of *C.C. Agle et al.*,
J Histochem.Cytochem., in press

Report on the 2012 Annual Meeting of The Histochemical Society

Bridging the Gap between Light and Electron Microscopies. The 2012 HCS meeting at the Marine Biological Laboratories brought together a group of 90 outstanding scientists and students of broad interests who shared novel concepts to address an array of challenges in imaging. The diversity of research woven together by the common need to challenge current imaging boundaries generated a unique tapestry of thought and conversation. The blue skies and balmy breezes set the mood which was topped off by the new Swope Center ice cream bar which was enjoyed by all.

An illuminating JHC Plenary Lecture was delivered by Dr. Richard Hynes. The lecture focused on the modular domain structure of extracellular matrix proteins and the importance of this property to the generation of hundreds of matrix proteins which have evolved to serve many diverse functions. In addition, the HCS Past Presidents Symposium highlighted the extraordinary achievements of individuals dedicated to the HCS.

It was a most interesting and enjoyable meeting! And we will miss MBL. However, as a new FASEB Society, we plan to participate in Experimental Biology Meeting in 2013 in Boston. Please mark your calendars.

Nancy Sawtell
President , HCS

2012 HCS Awardees



Awardees from left to right: Aris Polyzos, Stephanie Brosius, Yosuke Horikoshi, Yurika Saitoh, Rebecca Hull, Ningshan Wang, Amy Spinelli, Scott Tanner and Caroline Harper. Not present for the photo: Kate Halligan

A Letter to HCS Members....

Dear Members of HCS,

A number of changes in our annual programs for the hands-on Short Course on Immunohistochemistry and Microscopy and our HCS Annual Meetings have occurred.

First, HCS continues to have full enrollment in its course at the MBL. The critiques from students are extraordinarily complementary and the core faculty in cooperation with industry faculty have continued to integrate the laboratory immunohistochemistry experience with a number of microscope modalities that provide experience with image capture and analysis. Due to the continued success of the course, the Marine Biological Laboratory has proposed entering into an agreement with HCS to sponsor and manage Immunohistochemistry and Microscopy courses in the future, beginning in 2013. This has a number of significant advantages to our Society. Advertising, logistics, registration and related responsibilities will shift to the MBL. MBL will advertise the course as part of their regular schedule of courses, this will assure greater visibility and distribution of information. HCS will retain the role of organizing and teaching the course. The cache associated with the MBL courses cannot be overestimated.

Final details for the 2013 Short Course will be worked out with the MBL in the coming months.

Second, as you may know, HCS is now a member society of the Federation of American Societies for Experimental Biology (FASEB). In the past we have been a guest society with several founder FASEB societies at annual meetings of Experimental Biology (EB). Council has decided that HCS should meet in future years at the EB meetings as a guest society. This will offer the opportunity to develop joint sessions and participate in poster sessions with the host society and provide a larger audience for the **JHC** Lecture. Future HCS annual meetings will be held in conjunction with EB. Plans are still being formulated, but at the upcoming EB meetings in 2013 (Boston) and 2014 (San Diego) HCS will be the guest society of the American Society for Investigative Pathology.

We are excited about these developments and believe that these changes will permit the Society to develop and extend its goals of advancing the fields of histochemistry and cytochemistry within the scientific community.

Also, you may recall that color charges for publication in the **JHC** have been eliminated by our publisher SAGE. The savings on color production assists authors in bringing the cost of publication of their manuscripts in **JHC** below that of most journals including open access journals.

I encourage you to submit your papers to JHC. Please see the accompanying call for papers in this newsletter.

Bill Stahl

Executive Director, HCS

RENEW YOUR 2012 MEMBERSHIP IN HCS!

Visit: www.histochemicalsociety.org

Use the "Membership" tab to renew..

Scenes from the HCS 2012 Annual Meeting and Short Course



Rudi Rottenfusser (Zeiss) explaining basic elements of microscopy at the Short Course Boot Camp.



Denis Baskin and Chuck Frevert in breakout session of the fluorescence module.



Scenes from the HCS 2012 Annual Meeting and Short Course



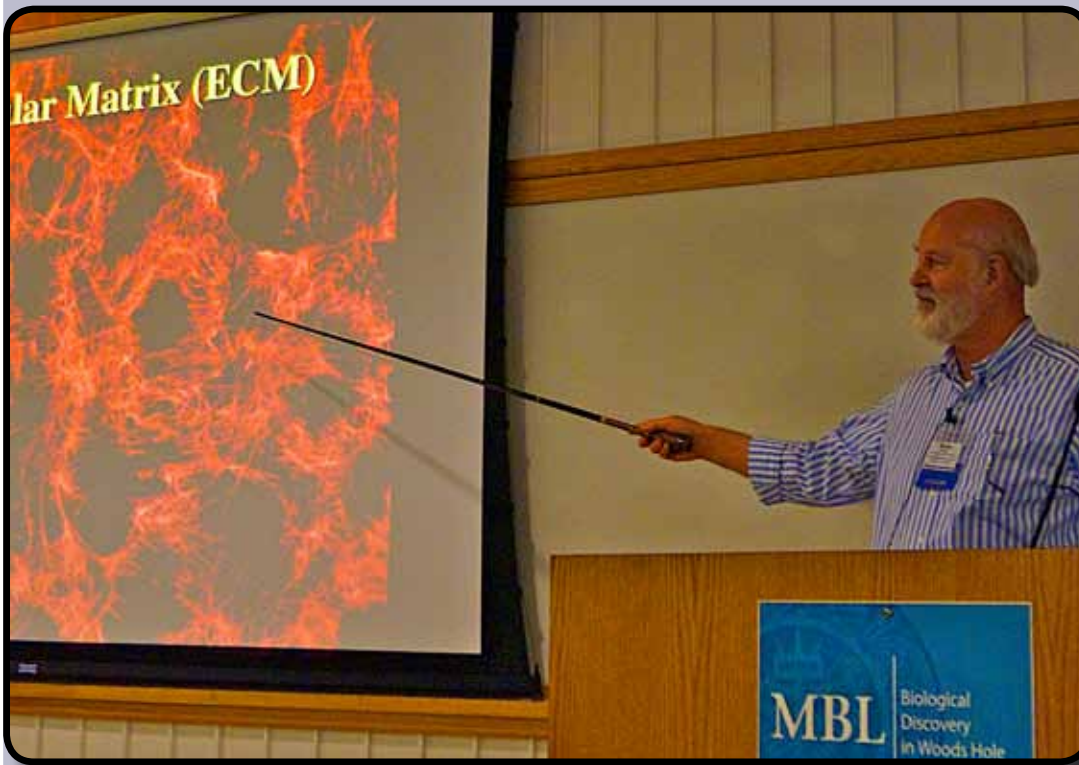
Nancy Sawtell
working with Jose
Torres.



Students at work in
one of the microscopy
suites.



Scenes from the HCS 2012 Annual Meeting and Short Course



Richard Hynes, Koch Institute, MIT, presented the JHC Plenary Lecture, entitled: *What is Actually in the Extracellular Matrices that You Stain.*



Dan Lucking (Olympus) discussed Imaging and IHC with a group of students

Students and Faculty at the HCS 2012 Hands-On Short Course Held at the Marine Biological Laboratory



<u>Slide</u>	<u>1^o</u>	<u>2^o</u>	<u>Substrate</u>
1	GP α insulin (A)	AP-R α GP (D)	NBlue
2	m α Glucagon (B)	HRP-H α m (E)	NRed
3	GP + m (C)	R α GP + H α m (F)	NBlue / NRed
4	GP α insulin (A)	HRP-H α m (E)	NRed
5	m α Glucagon (B)	AP-R α GP (D)	NBlue
6	No 1 ^o	R α GP + H α m (F)	NBlue / NRed

Breakout Session Planning

Thanks to our Sponsors
For their Generous Contributions.



We make it visible.



FASEB News

FASEB organizes meetings of representatives of its 26 member societies twice a year and holds regular teleconferences to discuss relevant issues during the year. An important strategic focus of FASEB is on pending legislation in Congress that affects funding of biomedical research. This includes providing guidance to members of Congress on funding, especially by the NIH and NSF. In subsequent issues of the newsletter these activities will be described in more detail.

A recent meeting of the FASEB societies was held from May 15-17, 2012 in Bethesda, MD. HCS was represented by HCS Immediate Past President Ed Rosa-Molinar (FASEB Board Member), Chuck Frevert (HCS President Elect and member of the FASEB Science Policy Committee) and Bill Stahl (HCS Executive Director).

On May 16th about 44 members of FASEB societies participated in Capitol Hill Day which involved visits to the offices of members of Congress.

The three HCS representatives participated in these visits. One team (see photo below) was comprised of Chuck Frevert, Bill Stahl and John Clark (Chair, Biological Structure, University of Washington). This group visited the offices of Representatives Dave Reichert and Jim McDermott and of Senators Maria Cantwell and Patty Mur-

House of Representatives and Senate about the NIH and NSF budgets for 2013. As recommended by FASEB, emphasis was placed on providing steady support for biomedical research and supported a \$32B NIH budget for 2013. The House and Senate have already agreed on a \$7.3B NSF budget.



John Clark, Bill Stahl and Chuck Frevert outside the office of Jim McDermott, Congressman representing Washington State.

ray. The groups met primarily with legislative assistants, but the group of Frevert, Stahl and Clark were able to talk to Washington State Representative Dave Reichert.

Ed Rosa-Molinar was a member of another FASEB group (see page 8 for details).

The goal was to provide information to Congressional Aides, and when possible to members of the

These visits provided the opportunity for scientists to provide details about their own work and to support the NIH and NSF bills before Congress. The visits were favorably viewed as a useful effort by the FASEB participants and the budget process will continue to evolve in the coming months.

FASEB News *cont.*



As part of the Capitol Hill Day another group from FASEB met with staff in seven Congressional offices. They were the offices of: Sen. **Richard Shelby** (R-AL), Sen. **Jeff Sessions** (R-AL), Sen. **Marco Rubio** (R-FL), Rep. **Cliff Stearns** (R-FL), Rep. **Terri A. Sewell** (D-AL), Del. **Pedro Pierluisi** (D-PR) and Rep. **Kathy Castor** (D-FL).

Shown in the photo are the members of the FASEB group (from left): **Ed Rosa-Molinar**, University of Puerto Rico - Rio Piedras, FASEB Board Member; **Karen Mowrer**, FASEB Legislative Affairs Officer; **Lynn Wecker**, University of South Florida College of Medicine, FASEB Treasurer-Elect; **Nancy Denslow**, University of Florida, FASEB Board Member; and **John Chatham**, University of Alabama at Birmingham, FASEB Science Policy Committee.

Alert from FASEB NIH 2013 Budget Under Consideration.

It is considered essential that the NIH budget have stable, continued support in Congress. It would be prudent for individual scientists to contact their Senators in support of \$32 billion for NIH in fiscal year (FY) 2013. The Senate Labor, Health and Human Services Appropriations Subcommittee will mark-up their FY 2013 bill on Tuesday, June 12th, followed by full committee consideration of the measure on Thursday, June 14th. Your message need not be profound or long, but the number of contacts by email or telephone to your senator does have a bearing on the outcome of these votes in the Senate.

Ed Rosa-Molinar Represents FASEB at Coalition for National Science Funding Meeting.



Ed Rosa-Molinar at CNSF Meeting in discussion with Myron Gutmann, Asst. Director of the Directorate for Social, Behavioral and Economic Sciences at NSF

Ed is the HCS representative to the FASEB Board of Directors.

On May 15th, he represented FASEB at the 18th Annual Capitol Hill Exhibition of the Coalition for National Science Funding (CNSF, <http://www.cnsfweb.org>) at the Rayburn House Office Building in Washington, D.C.

CNSF is an alliance of over 120 organizations united by a concern for the future vitality of the national science, mathematics, and engineering enterprise. It supports

the goal of increasing the national investment in the National Science Foundation's research and education programs in response to the unprecedented scientific, technological, and economic opportunities facing the United States.

In all, 32 societies and groups participated in the Exhibition that was attended by members of Congress, their aides and invited guests.

Ed's presentation was related to the use of large data sets in re-

search with the title: *Developing Tools for Advancing "Big Data" Mining in Circuit Neuroscience: Accelerating Discovery and Innovation.*

For more information on the poster pictured above please visit:

<http://tinyurl.com/82t4phy>

14th International Congress on Histochemistry and Cytochemistry

Congress Theme: *Beyond the Limits of Histochemistry*

Kyoto International Conference Center, Kyoto, JAPAN

August 26th – 29th, 2012

Histochemical Society Symposium: Correlative Microscopy

Symposium Overview: This session on correlative microscopy will provide information on the integration of multiple imaging platforms including but not limited to conventional fluorescence, super-resolution microscopy, transmission and scanning electron microscopy. The ability to perform multi-modal imaging to obtain unique but complimentary information from each system allows investigators the ability to obtain spatial, structural, biochemical and functional information at different resolutions from the same biological sample.

Symposium Chair: Charles Frevert, University of Washington School of Medicine, President-Elect, The Histochemical Society

Speakers

1. Kuniaki Nagayama, National Institutes of Natural Sciences, Okazaki Institute for Integrative Bioscience,

Title: *TBA*

2. Robert E. Marc, University of Utah School of Medicine

Title: *Fusion of large scale automated TEM and optical data for connectomics*

3. Yasushi Hiraoka, Osaka University

Title: *Live correlative light and electron microscopy of mammalian and yeast cells*

4. Eduardo Rosa-Molinar, University of Puerto Rico-Rio Piedras, Immediate-Past-President of the Histochemical Society

Title: *TBA*

Speaker Profiles

Kuniaki Nagayama ScD: Dr. Nagayama is the Director & Professor of Okazaki Institute for Integrative Bioscience and Professor of National Institute for Physiological Sciences, National Institutes of Natural Sciences (NINS). He is a pioneer in the fields of electron microscopy and Nanobiology where one of his major accomplishments is the development of a phase-plate electron microscope. The advantage of this cryo-TEM is that it can be used on biological samples, such as viruses, bacteria and somatic cells, using only rapid freezing to prepare these samples for imaging. The significance of this sample preparation is that it does not require the harsh chemical treatments commonly used for TEM that result in denaturation of protein molecules and organelles.

Robert E. Marc, PhD: Dr. Marc is the Calvin & JeNeal Hatch Endowed Chair in Ophthalmology, the Director of Research, Moran Eye Center and Professor of Ophthalmology, University of Utah School of Medicine, Salt Lake City, Utah. The major objectives of the Marc Laboratory are the development of imaging strategies and molecular probes designed to reveal cellular physiological states and large-scale neural system reconstruction. Their current focus is the fusion of TEM connectomics and computational molecular phenotyping: a system of analysis based on anti-hapten molecular detection, high-density sample array fabrication, multidimensional image processing and computational pattern recognition analyses for image segmentation.

Yasushi Hiraoka, PhD: Dr. Hiraoka is a Professor at Graduate School of Frontier Biosciences, Osaka University, joint appointed as a Distinguished Researcher in the Cell Biology Group in National

Institute of Information and Communications Technology. The major focus of his group is the study of the functional organization of the cell nucleus using mammalian and fission yeast cells. This laboratory group has also developed a live correlative light and electron microscopy method (live CLEM) that combines time-lapse live-cell imaging in fluorescence microscopy with high-resolution imaging in electron microscopy.

Eduardo Rosa-Molinar, PhD: Dr. Rosa-Molinar is an Associate Professor of Biology at the University of Puerto Rico-Rio Piedras with an adjunct appointment as Associate Professor of Neurobiology at the Institute of Neurobiology, University of Puerto Rico School of Medicine. His research area is cellular and circuit neuroscience. He and his group (<http://pisces.cnet.clu.edu/erm-lab/>) seeks to decipher the connectivity of neurons (i.e. connectomics) at synapses (i.e. synaptomics) by using and developing novel high-throughput three-dimensional correlative fluorescence-based and electron-based imaging technologies and methods for advancing big data-mining in circuit neuroscience, thus accelerating discovery and innovation.

The JHC Lecture at ICHC 2012
will be presented by
Kozo Kaibuchi, Nagoya University, Kyoto
Title to be announced

FASEB-MARC Makes Awards to Five to Attend the Short Course

The FASEB-Minority Access to Research Careers (MARC) program made five awards for students and faculty members to attend the 2012 HCS Hands-On Short Course on Immunohistochemistry and Microscopy. They were **Daniela Carmona-Matos** and **Adriana Mendez-Suarez**, both of the University of Puerto Rico; **Jose Torres**, Texas Southern University; **Clarretta Sullivan**, Eastern Virginia Medical School; and **George Jules**, Meharry Medical College.

This MARC program was created by the National Institute of General Medical Sciences and seeks to increase the number of highly-trained biomedical and behavioral scientists from under-represented minority groups. Training through HCS programs contributes both to the missions of HCS and FASEB.

JHC Provides Free Color



The Journal of Histochemistry & Cytochemistry (JHC) accepts primary research articles, timely reviews, editorials and perspectives across a broad spectrum of cell biology. Manuscripts emphasizing structure/function relationships in cells and tissues, using state-of-the-art imaging techniques are strongly encouraged.

JHC places a premium on image quality and is a venue for authors who desire the highest quality reproduction of their histochemical and cytochemical analyses. *JHC* welcomes articles that contain all imaging modalities, including electron micrographs, and emerging fluorescence and other microscopic techniques.

Visit: <http://JHC.sagepub.com>, and click on Manuscript Submission to view our Submission Guidelines.

To submit a manuscript, go to :<http://mc.manuscriptcentral.com/hcs>

14th International Congress of Histochemistry and Cytochemistry (ICHC 2012)



**14th International Congress of
Histochemistry and Cytochemistry
(ICHC 2012)**

August 26-29, 2012

Kyoto, Japan

<http://www.acplan.jp/ichc2012/index.html>

HCS 2012 BUSINESS MEETING MINUTES

March 23, 2012, 3:00 PM

Meig's Room

Marine Biological Laboratory, Woods Hole, MA

Attendance – Officers: Past-President Eduardo Rosa-Molinar, President Nancy Sawtell; President-Elect Charles Frevert; Secretary/Treasurer Margarida Barroso. Councilors: Stephen Hewitt, Gloria Hoffman, Douglas Rosene, Douglas Taatjes. Awards and Membership Chair, John Shacka; Editor-in-Chief (the Journal of Histochemistry and Cytochemistry) John R. Couchman; Executive Director William Stahl; Managing Editor and Executive Secretary Tanda Jaipen.

Absent: Councilor Vincent Gattone; Executive Editor Denis G. Baskin; Marketing Director Meg McGough.

Number of Attendees: 52

1. President's Welcome & Annual Meeting Report. The meeting convened at 3:23 PM with the President, Nancy Sawtell, welcoming Council and meeting attendees to the MBL at Woods Hole, MA. She thanked all of the sponsors and the short course organizers, Eduardo Rosa-Molinar and Chuck Frevert, for their efforts on putting together a successful short course.

2. Secretary-Treasurer's Report (Finance Committee). The Treasurer, Margarida Barroso, reported that the Society in financial terms is sound and stable due to the success of the Society's Journal (JHC) and conservative investment portfolio. The last fiscal year's income and investments have given HCS the opportunity to provide generous meeting travel awards to HCS members, and has also allowed the Society to become a full member of the FASEB organization.

3. Editor's Report. John R. Couchman, the Editor-in-Chief of the Journal of Histochemistry and Cytochemistry introduced himself and reported that the Journal is doing well due to an outstanding Staff and Editorial Board. He noted that the Publishing environment has become very competitive and the number of cell biology journals JHC is competing with is growing. He encouraged HCS members to publish in their Journal, noting that he welcomes all article types and is expanding publishing for mini-review articles. JHC has begun publishing more Review articles, particularly during the first quarter of the year.

JHC began publishing with SAGE Publications in January 2011. The Journal's citation half-life is over 10 years and that has made JHC very distinguished among cell biology journals. He commented that JHC has some landmark papers that are still cited in current published articles. JHC's current impact factor is 2.381, and ranking to other cell biology journals is 116/178.

4. Awards & Membership Committee Report. The Membership Committee Chair, John Shacka, reported on the membership of the Society and the 2011 awards. He noted that the Vector Laboratories Young Investigator Award was judged during the Wednesday and Thursday poster session and four Lille Award candidates presented platform presentations to compete for this award. Two candidates were awarded the Vector award.

BUSINESS MEETING MINUTES *cont.*

2012 New Members. The Chair welcomed all members in attendance and highlighted the 31 new members to the Society:

Regular:

Philip Board	John Curtin Sch of Med
David Cook	University of Washington
Nina Ditsch	Ludwig-Maximilians University
Jonathan Gisser	Nationwide Children's Hosp
Kaoru Goto	Yamagata University
Gengli Guo	Stower Institute
Mark Hamrick	Georgia Health Sci University
Rebecca Hull	University of Washington
Michiru Ida-Eto	Mie University
Louis Kunkel	Children's Hosp Boston
Douglas Kwon	Partners
Lars Mundhenk	Free University Berlin
Kyoko Oka	Fukuoka Dental College
Sanaz Saatchi	Stanford University
Timothy Seabrook	Merck
Eugene Sheval	AN Belozersky Institute
Mechthild Stockelhuber	Technische University Munchen
Claretta Sullivan	EVMS
Lydie Venteo	
Ninshan Wang	Beth Israel Deaconess

Associate:

Stephanie Brosius	University of Alabama @ Birmingham
Danilea Carmona-Matos	University of Puerto-Rico
Carline Harper	Brown University
George Jules	Meharry Medical College
Adriana Mendez	University of Puerto-Rico
Liliana Ornelas	
Thomas Ruyle	Abcam
Scott Tanner	University of Alabama @ Birmingham
Jose Torres-Hernandez	
Francois Orange	University of Puerto-Rico
Tamara Williams	University of Vermont

Emeritus:

James Witliff	University of Louisville
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BUSINESS MEETING MINUTES *cont.*

b. **2012 Awards** were presented as follows:

HCS Research Scientist:	Rebecca Hull	University of Washington
	Aris Polyzos	Lawrence Berkeley National Laboratory
	Ningshan Wang	Beth Israel Med Ctr / Harvard Medical School
	Stephanie Brosius	University of Alabama @ Birmingham
HCS Student Travel:	Amy Spinelli	Albany Medical College
	Scott Tanner	University of Alabama @ Birmingham
Ralph D.Lillie:	Caroline Harper	Brown University
Vector Laboratories Young Investigator:	Amy Spinelli	Albany Medical College
Short Course: associate Award:	Katherine Halligan	Albany Medical College

5. FASEB Report. The Executive Director, William Stahl, reported that HCS joined the Federation of American Societies for Experimental Biology (FASEB) organization last year. HCS is the 26th society that has been accepted into their organization. This will give HCS recognition and representation in Congress with respect to biological research. This is an important and changing event in HCS' history. The Executive Director noted that the development of the IHC Short Course was an important element for consideration as a FASEB member. He thanked Eduardo Rosa-Molinar for spear-heading the development of the IHC Short Course and the success that has resulted.

6. Introduction/Retirement of Councilor(s). The President thanked the retiring Councilor Gloria Hoffman for her work and dedication to the Society.

7. ICHC2012, Kyoto. The Executive Director reported that the Japan Society of Histochemistry and Cytochemistry is hosting the International Congress for Histochemistry and Cytochemistry meeting in 2012 in Kyoto, Japan. HCS will be sponsoring a JHC lecture and another symposium organized by Eduardo Rosa-Molinar and Charles Frevert (see HCS symposium on p. 10).

8. Future Meetings Report. The Executive Director noted that this is the third year we have hosted the HCS Annual Meeting in Woods Hole in conjunction with our IHC Short Course. The 2013 HCS Annual Meeting will be held during the Experimental Biology meeting in Boston, MA.

BUSINESS MEETING MINUTES *cont.*

9. New Business. Stephen Hewitt reported on the HCS about working on **Guidelines for Standards of Practice for Immunohistochemistry**. IHC is generally poorly performed and the development of this resource would be a great asset for general guidelines. The Standards of Practice would entail the following:

Immunohistochemistry Working Group

Published As Short Guidelines/Best Practices In JHC

Timeline

Three articles in Jan-March 2013

Three articles in Jan-March 2014

Additional articles to be determined Lifecycle Approach – Anticipate Review/Revision in ~ five years

Statement of Principles

Before IHC: Antibody Qualification, Specimen Specifications

Chromogenic IHC Assays

Epi-Fluorescent IHC Assays

Multi-Ag IHC (Low Complexity)

Quantitative/Confocal/DE convolution Assays

FRET/FRAP

EM IHC

Informatics

The Executive Director thanked Stephen Hewitt for taking on this task.

10. Adjourned. The President, Nancy Sawtell adjourned the meeting at 4:08 PM.



HCS Past-Presidents, Denis Baskin and Moise Bendayan

HCS Committees 2012-2013

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Journal of Histochemistry and Cytochemistry

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