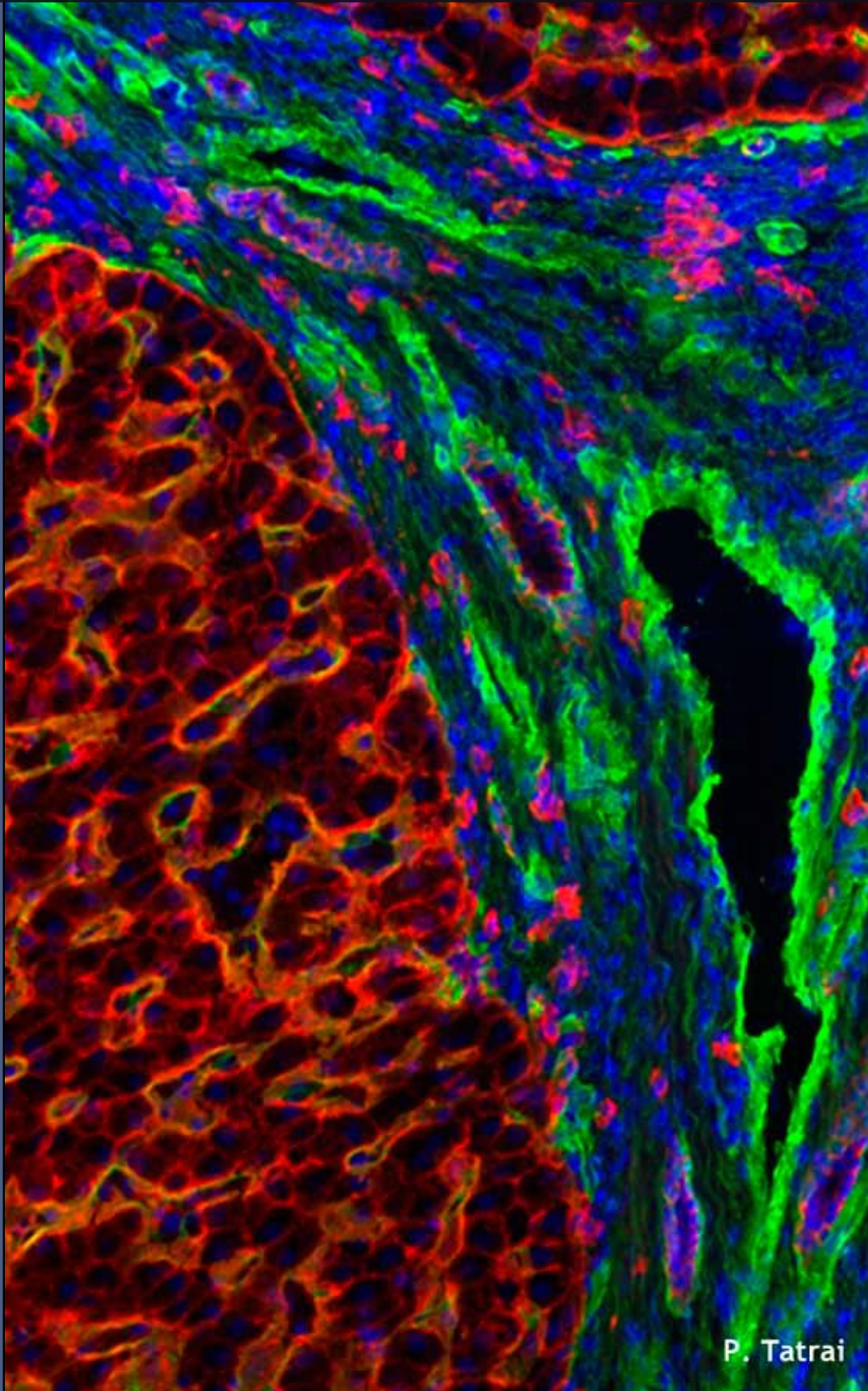




The Histochemical Society NEWSLETTER

Late Fall 2012

Vol. 25 No. 4



P. Tatrai

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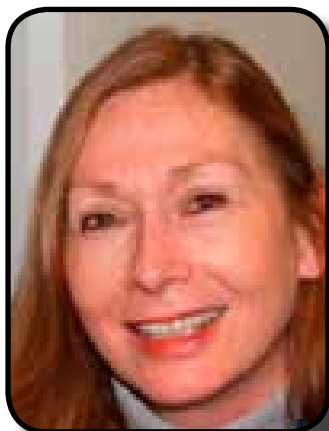
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A Letter from the HCS President...



Dear HCS Members,

The 2013 annual meeting of The Histochemical Society will take place at the landmark Boston Convention and Exhibition Center from April 20 – 24. We will be meeting with Experimental Biology as a guest society of the American Society for Investigative Pathology. Collectively, the 2013 EB meeting will feature over 400 booths, plenary award lectures, pre-meeting workshops, oral and poster presentations, and on-site career services.

The HCS scientific program focuses on a rapidly developing area important to human disease processes that is of broad research interest. Please plan to attend the HCS symposium entitled “**Proteoglycans and Disease: a rapidly evolving branch of glycobiology**” and the annual *Journal of Histochemistry & Cytochemistry*’s plenary lecture, “**How vascular endothelial growth factor (VEGF) regulates differentiation of mesenchymal stem cells,**” presented by **Bjorn Olsen** of Harvard Medical School. The HCS symposium and the JHC lecture will be held the morning of Tuesday, April 23rd. The symposium speakers include **John Couchman**, University of Copenhagen and JHC Editor-in-Chief, **Chuck Frevert**, University of Washington and HCS President-elect and **Joseph Zaia**, Boston University Medical School. Chuck and I will be chairing the symposium and John will be chairing the JHC lecture. We are looking forward to seeing you there.

This year, the HCS scientific posters will be merged into the sponsoring FASEB society but we encourage our members to submit their abstracts as HCS members with ASIP as the sponsoring society. However, when submitting your abstract, choose the category that most closely aligns with your abstract topic, even though this may be another society’s category.

As you know, a large part of the HCS annual meeting is the acknowledgement of student and post doc work via their poster presentations. The Experimental Biology meeting presents a great learning opportunity for your trainees so we encourage you to support their abstract submissions. Remember the HCS offers awards to students and postdocs although some changes have been made this year including a new HCS sponsored award with ASIP for students. While EB can be overwhelming, HCS will be hosting our annual Business Meeting and HCS Awards presentations, where we welcome students and our members in a convivial setting. The meeting will take place Sunday evening, April 21st. Bring your students and postdocs, celebrate their awards and enjoy catching up with other HCS members.

As a guest of ASIP, we will also be participating in ASIP’s centennial celebration. Visit ASIP’s meeting website <http://www.asip.org/meetings/2013/> for further information but save the evening of Monday, April 22nd for their gala celebration at the Boston Museum of Modern Art.

With regard to the registration procedure at the EB2013 website, as a guest society you are eligible for reduced registration fees for the meeting. Even if you are a member of other FASEB societies please remember to check the HCS box on the registration form (in the ASIP block) so that you can be identified as an HCS member and receive the reduced registration fee.

Remember the abstract submission deadline is November 8, 2012. Begin your plans now and we will look forward to seeing you at Histochemistry 2013.

Nancy Sawtell
President, HCS

Experimental Biology 2013

Convention Center, Boston, MA

April 20-24, 2013

Joint Session of

The Histochemical Society

and

The American Society for Investigative Pathology

Sunday, April 21, 2013

HCS Reception and Business Meeting, Time and Location: TBA

Monday, April 22, 2013

6 PM

ASIP Awards Reception – Mezzanine, Convention Center. This event will include the HCS Sponsored Trainee Travel Awards presentation. Awardees will also be present for the HCS Business Meeting presentations

6:30 – 7:30 PM

ASIP Centennial Reception at the Institute of Contemporary Art

7:30-9:30 PM

ASIP Centennial Dinner, The Institute of Contemporary Art

Tickets are required for the dinner and reception and must be purchased by March 1, 2013

For tickets go to: http://www.asip.org/meetings/2013/centennial_events.cfm

Tuesday, April 23, 2013

8:30-9:30 AM

***The Journal of Histochemistry & Cytochemistry* Lecture**

Chair: John R. Couchman, University of Copenhagen

Bjorn R. Olsen, Harvard Medical School

How vascular endothelial growth factor (VEGF) regulates differentiation of mesenchymal stem cells

9:30-11:30 AM

ASIP/HCS Symposium

Proteoglycans and Disease: a rapidly evolving branch of glycobiology

Chairs: Nancy Sawtell, Cincinnati Children's Hospital and **Charles W. Frevert**, University of Washington

John R. Couchman, University of Copenhagen

Syndecans, signaling and proteinases in breast carcinoma.

Joseph Zaia, Boston University Medical School,

Mass spectrometric profiling of glycosaminoglycans on tissue histological sections

Charles W. Frevert, University of Washington

Glycosaminoglycans provide fine-tune control of neutrophil migration and activation in lungs.

Important Dates and Deadlines

Experimental Biology 2013

Convention Center, Boston, MA

April 20-24, 2013

www.experimentalbiology.org

November 8, 2012

Abstract Submission Deadline

HCS Awards Deadline

November 15, 2012

HCS/ASIP Awards Deadline

February 22, 2013

Early Registration Deadline

March 22, 2013

Housing Deadline

Immunohistochemistry and Microscopy Hands-on Course 2013

Marine Biological Laboratory, Woods Hole, MA

March 9-13, 2013

www.immunohistochem.com

January 11, 2013

Registration Deadline at the MBL

March 9, 2013

Saturday: arrival and check in at MBL, opening lecture.

March 10-13, 2013

Sunday - Wednesday: course

March 14, 2013

Thursday: check out and departure

Daniel Friend, 1933-2012

Dan Friend, well known cell biologist, microscopist, long-time member of HCS, Society Councilor and recipient of the HCS Carpenter-Rasch Award recently passed away. An obituary will appear in a later issue of the HCS newsletter. Our sympathy to his family, many friends and colleagues.

2013 JHC Plenary Lecturer Announced



Bjorn Olsen, MD, PhD, Harvard Medical School is 2013 JHC Plenary Lecturer

Bjorn R. Olsen, MD, PhD, Harvard Medical School and Harvard School of Dental Medicine will give the 2013 JHC Plenary Lecture at the HCS Annual Meeting April 20-24, in Boston, MA. The title of his presentation is "**How vascular endothelial growth**

factor (VEGF) regulates differentiation of mesenchymal stem cells". The talk will include discussion of how intracellular VEGF controls osteoblast/adipocyte differentiation in mesenchymal stem cells as described in a paper (Liu et al.) that was published August 2012 online in the Journal of Clinical Investigation.

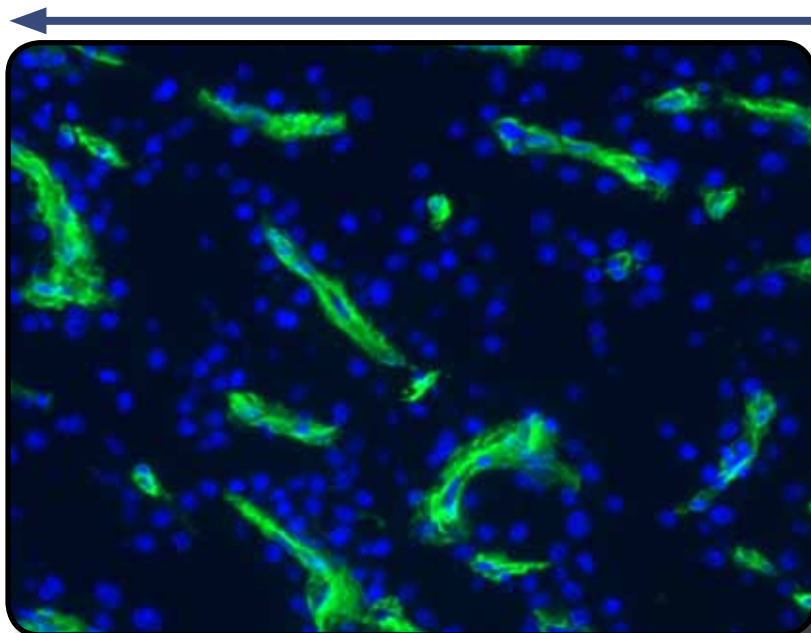
Dr. Olsen is the Hersey Professor of Cell Biology at Harvard Medical School and Dean for Research and Professor of Developmental Biology at the Harvard School of Dental Medicine. He has made contributions to the fields of extracellular matrix biology, genetics, and cell and developmental biology that have earned him international recognition and acclaim.

A native of Skien, Norway, he received his medical and doctoral degrees from the University of Oslo in 1967, where he became a faculty member at the Anatomical Institute and conducted molecular studies on the structure of collagen. He came to the United States in 1971 and joined the faculty of the Department of Biochemistry at

Rutgers Medical School in 1972. In 1985, he was appointed the Hersey Professor of Anatomy and Cellular Biology at Harvard Medical School (now titled Hersey Professor of Cell Biology). Since 1996, he has also been Senior Member of the Staff at The Forsyth Institute, and Professor of Developmental Biology at Harvard School of Dental Medicine where he is now Dean for Research.

Over the past 45 years, he has made fundamental contributions to research into the roles of the extracellular matrix in embryonic development, and skeletal and vascular cell and molecular biology. His research has furthered our understanding of diseases from dwarfism to congenital vascular anomalies, osteoporosis, osteoarthritis, corneal dystrophy and retinal degeneration. He has published over 350 papers in professional journals.

He is currently Editor-in-Chief of Matrix Biology and BioMed Central, and Åds Journal of Negative Results in Biomedicine.



Courtesy of P. Tatrai et al. JHC 2010
Heparin Sulfate in Liver Disease

Histochemical Society Awards

EB2013

April 20-24, 2013

The Histochemical Society offers a number of awards to its members and other individuals whose research demonstrates an understanding and application of histochemical techniques. These awards include travel awards and achievement awards.

Carpenter-Rasch Award

The Histochemical Society Sponsored Trainee Travel Award

(new award for 2013 in partnership with American Society for Investigative Pathology)

Ralph D. Lillie Award

Research Scientists Travel Awards

Student and Postdoctoral Fellow Travel Awards

Vector Laboratories Young Investigator Award

Depending on the award, you must apply or be nominated by a member of The Histochemical Society. **The Deadline for most awards is November 8, 2012**

Eligibility:

- Requirements for HCS awards vary, please see individual awards for requirements.
- For awards that require submission of an abstract, **an abstract must be submitted to Experimental Biology (EB)2013 by November 8, 2012.**

The following award require nominations and do not accept applications:

- The Anna-Mary Carpenter-Ellen M. Rasch Award

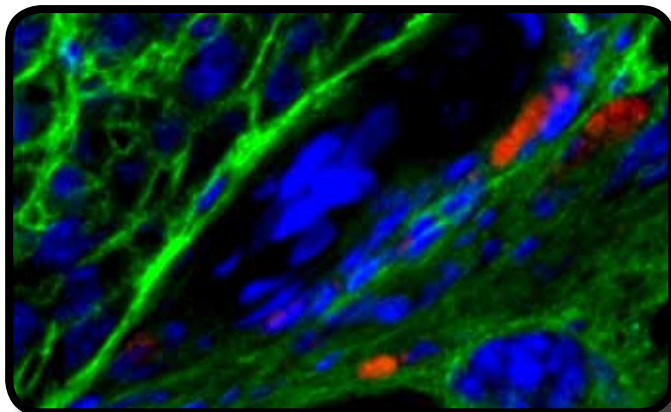
Note certain travel awards may be used to support attendance at the HCS Course: Immunohistochemistry and Microscopy at the Marine Biological Laboratory at Woods Hole in March 2013.

Please see individual awards for specific descriptions and application requirements, at:

<http://histochemicalsociety.org/Awards.aspx>

Many travel awards require submission of an abstract to EB2013 at :

<http://experimentalbiology.org/EB/pages/Abstract-Submission.aspx>



Courtesy of P. Tatrai et al. *JHC* 2010
Heparin Sulfate in Liver Disease

Immunohistochemistry and Microscopy A Hands-on Course

March 9 - 13, 2013

The Marine Biological Laboratory, Woods Hole, MA

<http://immunohistochem.com/>

Course Content

Antigen Retrieval
Automated Immunohistochemistry
Chromogenic Detection
Fluorescence Detection
Controls
Double Labeling and Co-Localization
Fixation
Microscopy and Imaging
Troubleshooting

Four days of in-depth theory of and extensive hands-on experience with immunohistochemistry (IHC) techniques as well as theory and hands-on experience with a broad range of microscopic imaging techniques. Registration includes accommodations and meal package.

2013 FASEB MARC AWARDS
to attend
The Histochemical Society
IMMUNOHISTOCHEMISTRY & MICROSCOPY COURSE
TRAVEL & REGISTRATION FUNDING

The FASEB MARC Program will sponsor Travel Awards for The Histochemical Society Immunohistochemistry and Microscopy Short Course. The FASEB MARC travel awards will provide up to \$1,850 in funding for travel-related expenses and course registration to each award recipient (in the form of reimbursement following the course).

The FASEB MARC Program is funded by two generous grants from The National Institute of General Medical Sciences, National Institutes of Health.
[T36-GM08059-30]



<http://www.faseb.org/marc>
<http://histochemicalsociety.org/>



2013 FASEB MARC AWARDS

Member in the Spotlight...



Richard Levenson, MD, FCAP, is Professor and Vice Chair for Strategic Technologies in the Pathology and Laboratory Medicine Department at the University of California Davis.

He received his undergraduate degree in History and Literature at Harvard College, his medical degree at the University of Michigan and his pathology training at Washington University, St. Louis. Following a research fellowship at the University of Rochester, he accepted a faculty position in the

Pathology Department at Duke University. He then moved to Carnegie Mellon University where he began to develop applications for multispectral imaging in biology and medicine. He served on the HCS Council from 2007 to 2011.

In 1999, he joined, Cambridge Research and Instrumentation (CRI), where he rose to Vice President of Research. While at CRI, he was a principal investigator on multiple NIH-funded large-scale grants addressing the development of automated, multiplexed pathology instrumentation, three-dimensional multispectral small-animal imaging systems, optical dynamic contrast enhancement techniques, and high-speed birefringence optical microscopy, leading to a number of commercialized products and issued patents.

He is a reviewer on multiple NIH, NCI and NSF grant review panels, is Associate Editor of Analyti-

cal Cell Pathology and serves on the editorial boards of Laboratory Investigation and Cytometry Part A. Since August, 2009, he has also been a consultant on projects that have included quantitative pathology, optical brain thermometry, intraoperative surgical guidance, and nanotechnology development.



Tessa and Richard relaxing.

He and his wife Jan enjoy escaping the hustle and bustle of Davis (pop. 64,000) by getting up to their cabin next to Lassen National Volcanic Park, and by catching up on Weeds.

Announcing ICHC2016 will be in Istanbul

The **15th International Congress of Histochemistry and Cytochemistry** will meet in Istanbul, Turkey in August 2016 at the Harbiye Museum and Culture Center.

The meeting will be organized by The Turkish Society for Electron Microscopy, which was founded in 1971 and is a member of the International Federation of Societies for Histochemistry and Cytochemistry. Professor Serap Arbak, Professor of Histology and Embryology, Marmara University of Health Sciences, Istanbul, will be the President for the Congress.

The meeting is still in early planning stages but will include scientific and social programs.

Check the meeting webpage for further developments at: www.ichc2016.com/

FASEB News...

HCS Contributes to FASEB Time Capsule

In celebration of FASEB's centennial, a new time capsule will be placed at the FASEB campus, following the example set at the time of the Federation's 50th anniversary in 1962. FASEB has grown a great deal over the last half century, including the addition of the Histochemical Society in 2011. All the current societies were invited to include material for the new time capsule. After a discussion of the Councilors of the HCS, it was decided to provide a slide box containing samples of representative research performed by members of the Society. Given the stability of stains, and other issues, there were substantial limitations in what could be included. In 2062, when the time capsule will be opened, the HCS will be represented by:

- Sections of hypothalamus from neonatal Rhesus Monkey (macromount) and rat with immunohistochemistry and double-label immunohistochemistry performed on them, provided by Gloria Hoffmann, Ph.D.
- Macromount sections of Rhesus Monkey Occipital Lobe stained by both immunohistochemistry and histochemical techniques, provided by Douglas Rosene, Ph.D.
- Sections of tissue microarrays of human tumors and cell lines derived from human cancers, stained with both H&E and a sampling of antibodies, demonstrating the state of the art in high-throughput tissue analysis, provided by Stephen Hewitt, M.D., Ph.D.

Stephen M. Hewitt

JHC
Journal of Histochemistry & Cytochemistry

December 2012 Special Issue

Current Topics in Proteoglycan Biology: Synthesis, Localization and Roles in Differentiation, Inflammation and Disease
Edited by John R. Couchman

Ten reviews covering a wide range of topics in proteoglycan research, including synthesis, interactions, extracellular matrix assembly, stem cells, diabetes, and innate immunity.

Available online late November <http://jhc.sagepub.com/>

International Congress of Histochemistry and Cytochemistry August 2012 – Kyoto, Japan.

The ICHC meetings are organized every four years under the direction of the International Federation of Societies for Histochemistry and Cytochemistry (IFSHC). The meeting held this year, ICHC 2012, was organized by Tetsuro Takamatsu of the Japan Society for Histochemistry & Cytochemistry and the meeting was held at the International Convention Center in Kyoto. Over 500 scientists were in attendance.

The HCS had a prominent role in the congress, with Jennifer Lippincott-Schwartz (NIH) and Moise Bendayan (U. Montreal) each delivering David Glick Award Lectures. The David Glick Award recognizes outstanding scientific contributions to the field of histochemistry and cytochemistry. David Glick was an internationally recognized scientist for his work in quantitative histochemistry and had an important impact on the early direction and development of the HCS. Recent recipients of the award include Morris Karnovsky (2000), Roger Tsien (2004); Ron van Noorden (2008). Jennifer Lippincott-Schwartz's plenary lecture was titled "***Navigating the cellular landscape with new optical probes, imaging strategies and technical innovations***". The second Glick awardee, Moise Bendayan, gave his plenary lecture on "***Gastric leptin – from immunocytochemistry to clinical application***".

Denis Baskin, past president and secretary general of the IFSHC, was conferred as an IFSHC Honorary Associate. Past-HCS Councilor and current president of IFSHC, **Robert Y. Osamura**, received the prestigious Paul Nakane Prize which recognizes outstanding international leadership in the advancement of the disciplines of histochemistry and cytochemistry. Dr. Nakane presented the award to Dr. Osamura. Nadia Atai (Amsterdam) was nominated by HCS and received a Young Histochemist Award.

The HCS organized a symposium, **Chaired by Chuck Frevert**, President-Elect of the HCS and sponsored by **FEI and Applied Precision**.

"Correlative integrative microscopy". This symposium included four talks:

- **Hirofumi Lijima** (Tokyo): *On-line correlative light and electron cryo-microscopy – Development of an integrated fluorescence and EM.*
- **Robert E. Marc** (Salt Lake City): *Merging ultrastructural and molecular data for connectomics.*
- **Yasushi Hiraoka** (Osaka): *Live correlative light and EM of mammalian and yeast cells.*
- **Ed Rosa-Molinar** (San Juan): *Building a synaptome – Tools for delineating true boundaries for segmenting and reconstructing synapses in their three-dimensional space.*

The Journal of Histochemistry & Cytochemistry Plenary Lecture, Chaired by Editor-in-Chief, John Couchman, was presented by **Kozo Kaibuchi** (Nagoya) and titled: "***Protein phosphorylation remains a black box in signal transduction – Developing a new method to search for substrates of protein kinases.***"

Kevin Roth (Birmingham, AL) co-chaired a symposium on **Autophagy and cell death**. The talks included:

- **K. Roth** - *Autophagy targeted therapies for malignant glial neoplasms*
- **John Shacka** (Birmingham, AL) - *Bafilomycin and ATP6V0C as putative mediators of autophagy lysosome pathway function.*

Delegates representing the IFSHC member societies met twice to at ICHC 2012 to consider issues relevant to the mission of IFSHC including planning for future international congresses. The delegates selected Istanbul, Turkey, as the site for ICHC 2016, hosted by The Turkish Society for Electron Microscopy. HCS member and past HCS president, **Hinke Multhaupt**, was reelected to a four-year term as IFSHC Treasurer.

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Journal of Histochemistry and Cytochemistry

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