



# The Histochemical Society NEWSLETTER

Spring-Summer 2003

An Official Publication of The Histochemical Society

## A Letter From the President of The Histochemical Society



Dear Colleagues:

It is both a pleasure and a privilege to serve as the President of the HCS, and I am fortunate to be assisted by a talented and supportive Council and Executive Office. It is unusual that the HCS President should be located in London, but it perhaps emphasizes the international nature of the HCS, our Journal of Histochemistry & Cytochemistry, and the science we do. I am hopeful that the HCS will continue to flourish and involve its membership from around the world. I would encourage you all, and particularly our young scientists, to support the HCS and help to shape its future.

In keeping with the international theme, our next meeting will bring together scientists from across the world. Every four years The International Federation of Societies of Histochemistry and Cytochemistry (IFSHC) sponsors a Congress. In 2004 the HCS will be the host society for the 12<sup>th</sup> International Congress of Histochemistry and Cytochemistry.

ICHC 2004 will be held on the campus of The University of California San Diego from July 24-29, 2004. Some of you will remember that we have used this site previously for a joint meeting of the HCS and The Japan Society of Histochemistry and Cytochemistry in 1998. The facilities are excellent, and some have been recently renovated. The theme of the meeting is "Cellular Interactions in Development and Disease" and we have invited all Member Societies of the IFSHC to attend and contribute to the program.

Already the organization is at an advanced stage, and I must acknowledge the continuing and vital support of Bill Stahl and the Executive Office team including Tanda Jaipen, as well as Meg McGough in the journal office. Bill is managing the facilities at UCSD for the Congress, while I am organizing the scientific program. There will be a mixture of plenary sessions, each with a specific focus, poster sessions, a strong emphasis on workshops covering the latest developments in techniques, informal gatherings,

exhibits and high profile lectures. Areas of science already scheduled include Vasculogenesis/angiogenesis, Visualization of signal transduction, Gene organization: basic principles and clinical implications, Mast cell development and disease, Visualizing proteolysis, Is histochemistry an "omic"?, Extracellular matrix and inflammation, Muscle cell differentiation and Neuropeptides: signaling and gene expression. Workshops include Quantum dots in fluorescence microscopy and New developments in computer and internet technology for diagnostic pathology. Other sessions under development include the areas of antigen retrieval, siRNA techniques, cell adhesion molecules, laser capture microdissection and spectral imaging in microscopy.

Many of these sessions will be finalized over the coming months, but already it is clear that there will be outstanding science, and something for everyone. The setting for the meeting is excellent, and the climate of Southern California is always pleasant.

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[www.histochemicalsociety.org](http://www.histochemicalsociety.org)

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## President's Letter

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The highlight of the social program will be a congress dinner at the Birch Aquarium of Scripps Institute. This is a wonderful venue, set high on the cliffs overlooking the Pacific, and almost worth the trip alone. Please make a note in your calendar and plan to join us next July. It will be an occasion to meet old friends, make new ones from around the world, and, of course, an opportunity to learn new techniques and get updates on the latest developments in cellular and molecular visualization. The informal and friendly environment of these meetings make ICHC 2004 an excellent venue for students. A number of travel bursaries will be available to students who present a poster and whose mentors are members of the HCS. Further details can be obtained from Ray Papka [rpapka@neoucom.edu](mailto:rpapka@neoucom.edu). Meeting details will be updated continuously on the website [www.ichc2004.org](http://www.ichc2004.org).

Inexpensive accommodations will be available on-site, close to the Price Center where the sessions will be held. There are also hotels close to the UCSD campus. The Price Center on campus was purposely built with well-equipped lecture theaters and meeting rooms, with the advantage that all the poster sessions, plenary lectures and exhibits will be in one location, along with refreshment facilities. Computer hook-up capabilities will be available.

In summary, my colleagues and I look forward to an excellent Congress, with a mixture of first rate science, excellent facilities and an ambiance that should make for a very enjoyable experience. I look forward to seeing you in San Diego next year.

Best wishes,

*John Couchman, President*  
[j.couchman@imperial.ac.uk](mailto:j.couchman@imperial.ac.uk)

## Ray Papka Heads Awards Committee



**Raymond E. Papka** is Professor and Chair of the Department of Neurobiology and Pharmacology at Northeastern Ohio Universities College of Medicine in Rootstown, Ohio. He chairs the Awards Committee of the Histochemical Society and with his committee reviews and helps to develop HCS policy on awards granted by the Society. His committee makes recommendations to Council for the various awards presented at the annual meeting. He can be contacted at: [rpapka@neoucom.edu](mailto:rpapka@neoucom.edu). Information on HCS awards will be found on the HCS webpage at: [www.histochemicalsociety.org](http://www.histochemicalsociety.org).

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## New Members

We welcome these new members to The Society: John W. Bishop, Kari L. Bradshaw, Mechthild Jonas, Kiyokaza Kametani, Keisuke Kuida, Florea Lupu, Olga Maximova, Courtney B. McKinney, Kandice R. Nielson, Flavia Pasello-Legrand, Leslie Ratkay, Murray Resnick, A.D. Westmuckett, Guang Yang.

Members receiving emeritus status are: Marie R. Green, William L. Stahl.

# Minutes of The 54th Annual Business Meeting of The Histochemical Society

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The Histochemical Society Business Meeting was held on Saturday, April 12, 2003 in the Convention Center in San Diego, California.

**1. Call to Order.** The meeting was called to order by President Elizabeth Unger at 5:40 PM. She stated that this annual meeting was the first held with the American Association of Anatomists (AAA) and the Federation of American Societies for Experimental Biology. She thanked AAA for the invitation and for support with the Histochemical Society's part of the meeting. It appears that HCS will have a good representation of its members at the meeting. She urged Society members to attend the Mentoring Luncheon on Sunday afternoon which will be held in collaboration with AAA and the American Society for Investigative Pathology. The session is titled "Dancing with Journals" and two of our members Denis Baskin and Stephen Carmichael, who are both editors of journals will speak at that function which is aimed at students and young faculty.

**2. Secretary's Report.** Secretary Joseph Mazurkiewicz reported that the on-line submission and review procedure is proceeding and should be implemented soon. There are plans to publish accepted manuscripts ahead of print which should shorten the time to publication. The Journal will soon offer the option of publishing extra supplemental material for papers on-line.

**3. Treasurer's Report.** Treasurer Kevin Roth reported that the Society continues to be profitable as it has for the past several years. This year the net gain should be between \$30,000-\$40,000. Final balances are contingent on the evaluation of accounts performed by our accountants in conjunction with filing of the Society's federal tax return. In addition the Council has completed initial review of the Society's first Business Plan and Investment Policy Statement. These will be used to guide the Council and its financial consultants in making decisions about investments.

**4. Editor's Report.** Editor-in-Chief of *the Journal of Histochemistry and Cytochemistry*, Denis Baskin, stated that the status of the Journal was presented in a detailed report to Council. The Journal is owned by the Society and the editorial office continues to be located in Seattle. About 60-65% of submitted manuscripts are accepted and the total number of submitted manuscripts has increased in the last year. First decisions on

acceptability of manuscripts for publication occurs within a month of submission and final decisions are generally done within 90 days. Of that time about 60 days are required by authors to revise manuscripts. Color pages have increased from 196 pages in 2001 to 291 pages in 2002. 70% of manuscripts come from outside the US. He recognized the staff for excellent support and thanked Allen Gown, Assistant Editor, for his continued invaluable help in selection of manuscripts and for his vital input to the Journal as a pathologist. A new category of articles has been added to the Journal. This section will present protocols articles in more detail. This section is being developed by Joseph Mazurkiewicz and Josiah Wilcox, as Protocols Editors.

**5. Awards Committee Report.** Raymond Papka, Chairman of the Awards Committee reported that this year travel, Vector, Lillie and Gomori awards would be presented at the Awards Banquet on Monday evening. He also stated that the committee is investigating the possibility of developing a new award aimed at recognizing classic citations or seminal contributions to the field and were published in the Journal. He encouraged people to nominate candidates for all of the awards. Beth Unger reiterated the importance of recognizing young students and investigators.

**6. Future Meetings.** Charles Frevort, Chairman of the Program Committee stated that future meetings are being planned. Next year the International Congress of Histochemistry and Cytochemistry (**ICHC2004**) will be held on the campus of the University of California, San Diego at La Jolla. Other meetings in early planning stages are for 2005 in the Netherlands, organized by Ron Van Noorden. The 2006 meeting may be held jointly with the Japan Society of Histochemistry and Cytochemistry and is in early planning by Josiah Wilcox. John Couchman stated that the planning for **ICHC2004** is well underway and both campus and hotel accommodations will be available for the meeting. The website for the meeting is: [www.ichc2004.org](http://www.ichc2004.org). Ron Van Noorden reported that the planning for the 2005 meeting is proceeding and will be held within the time of the tulip festival and at a location in the heart of the bulb fields. The meeting will probably also involve participation of the Society for Histochemistry and the International Society for Analytical and Molecular Morphology. Cy Wilcox reported that the 2006 meeting may be located on the East coast, possibly at Emory University or at a conference site outside Atlanta.

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**7. Introduction of New Officers.** Beth Unger presented the new Councilors, Kelley Murphy and Debra Hazen-Martin. (Councilor Antonio Nanci was not able to attend the meeting.). The new President-Elect-Designate is Josiah Wilcox; Joe Mazurkiewicz was re-elected as Secretary. John Couchman was introduced as the President of the Society for 2003-2004. In his acceptance comments he stated his pleasure in taking the helm of the Society for the year and his intent to develop a great meeting at ICHC2004. He thanked Executive Director Bill Stahl for urging him to run for the Presidency and for making many of the arrangements for ICHC2004 and outgoing President Beth Unger for a great job organizing the annual meeting. He thanked Jim Hainfeld, who has been a Councilor for the past four years and has been Chairman of the Membership

Committee for the past several years.

**8. New Business.** President Couchman asked for items of new business. Larry DeBault stated that he was concerned about the program book for the EB2003 meeting. The book is difficult to decipher and worse if you want to find out about the HCS part of the program. Stahl stated that the late arrival of the program book made it difficult to develop a separate short program for our members. If we meet again with a FASEB society, it will be important to develop an on-line version for distribution to our membership.

**9. Adjournment.** A motion was made to adjourn and the meeting was concluded at 6:35 PM. This was followed by a student poster session, held jointly with AAA and The International Society for Stereology.

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## The Gomori Award



HCS President Beth Unger and Morris Karnovsky

**Morris J. Karnovsky received the George Gomori Award** at the 54<sup>th</sup> annual meeting of the Histochemical Society, which was held jointly with the American Association of Anatomists at Experimental Biology 2003 in San Diego in April 2003. This award recognizes outstanding contributions to the field of histochemistry and cytochemistry. The award consists of a solid silver medal engraved with the names of the 14 founders of the Histochemical Society on its back and an inscription to the recipient on the front; a plaque stating the date and recipient of the award and a brief biographical sketch of George Gomori; and a cash prize of \$1000. Previous recipients of the award have been Charles Leblond (1987), Samuel Spicer (1991), Paul Anderson (1995), and Marilyn Farquhar (1999).

in many facets of cell biology. He developed a new technique using diaminobenzidine for detecting proteins at both the light and electron microscopic levels which is a classic, and his paper is one of the most quoted in the literature of cell biology and histochemistry. This method, as well as a wide variety of other commonly used microscopic and cytochemical techniques, have established Morris Karnovsky as a major contributor to progress in cell biology. His *in vivo* studies on blood vessels using horseradish peroxidase provide valuable insight into the blood-brain barrier, location of pores in capillaries and permeability properties of the kidney glomerulus. He helped develop techniques for demonstrating the structure of gap junctions and was one of the first to isolate, characterize and culture a cell from the mesangium of the glomerulus which showed similar properties to that of smooth muscle cells. He was influential in developing techniques for looking at leukocyte surface molecules. He and his colleagues influenced the area of membrane biology with their studies on lipids which led to the concept of lipid domains. He was one of the first to show that heparin can affect the growth properties of cells, in particular smooth muscle cells. He also showed that endothelial cells synthesize and release heparin which in turn may affect smooth muscle cell growth *in vivo*.

Morris received the George Gomori Award at the joint Histochemical Society-American Association of Anatomists Awards Banquet held on Monday, April 14<sup>th</sup>, 2003 at the Marriott Hotel in San Diego.

Morris Karnovsky has had a long and productive career

## 2003 Student Award Recipients

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### AWARDS

The Ralph D. Lillie Award recognizes an outstanding student paper or poster presented at our annual meeting. The Vector Laboratories Young Investigator Award is presented to a junior faculty member or postdoctoral fellow within three years of their doctorate. Travel awards are presented to young histochemists to attend the annual meeting. Recipients of these awards must give an oral or poster presentation at the annual meeting.

### Student Bio-Sketches



**Liping Luo** received the Vector Laboratories Young Investigator Award and an HCS Travel Award in San Diego. Her presentation was entitled, "Detection of DNA alterations in human aberrant crypt foci and colon cancers by random primed polymerase chain reaction". She received the M.D. degree in 1987 at the West China University of Medical Sciences and her Ph.D. in 2002 at the Karolinska Institute. She is currently a research associate in the Department of Pathology, Case Western Reserve University and works with Theresa P. Pretlow. Her work is to determine if genomic instability occurs in human aberrant crypt foci (ACF). ACF are monoclonal and represent the earliest histologically detected neoplastic precursor of cancer observed in grossly normal colonic mucosa. Genetic alterations and epigenetic changes can cause chromosome deletions and loss of information. These occur during the process by which a normal epithelial cell becomes neoplastic. Current work is

focused on: a) the kinds of genetic and epigenetic alterations that may take place during the pathogenesis of colon neoplasia, b) whether these genetic and epigenetic alterations are associated with specific phenotypes, and c) whether specific molecular changes can be detected as markers for precursors of colon cancer.



**Kevin Niswender.** At the annual meeting Kevin was recipient of the Presley-Zeiss Postdoctoral Fellow Award from the American Association of Anatomists and an HCS travel award. His oral presentation was entitled, "Histochemical detection of phosphatidylinositol 3-kinase activation in intact cells."

He received his B.S. in Biology from the Colorado College in Colorado Springs, CO, and his M.D. and Ph.D. in Molecular Physiology and Biophysics from Vanderbilt University, Nashville, TN. His work focuses on understanding the molecular physiology of key neurons found in the hypothalamic arcuate nucleus that regulate energy homeostasis and body adiposity. His mentors for this work are Drs. Denis Baskin and Michael Schwartz. He is currently located at Harborview Medical Center, University of Washington in Seattle. His hobbies are photography, bonsai, and cooking.



**Tomoko Furuya** received the Ralph D. Lillie Award and an HCS Travel Award at our annual meeting in San Diego. Her presentations were: "Multiplex quantitative analysis of intracellular materials by cell array system" and "The development of a novel device, multiplex-immunostain chip, for immunohistochemical examination". She received her B.Sc. in pharmaceutical science from Kyoto University in 1991 and the M.D. degree from Yamaguchi University School of Medicine in Ube in 2000. She is currently a graduate student at Yamaguchi University School of Medicine and works to develop new technologies for cell biology with Professor Kohsuke Sasaki in the Department of Pathology.



**Hanna Ojaniemi** received an HCS travel award to attend the 2002 annual meeting. Her presentation at the HCS minisymposium on signal transduction was entitled, "Approaches for using clinical samples with microarrays". In 2002 she received her M.S. degree in Chemical Engineering at the Royal Institute of Technology (KTH) in Stockholm (Sweden). The main subject of her education was Biomedical Engineering. She is currently a Ph.D. student at the Karolinska Institute (KI) and the Royal Institute of Technology (KTH) (Stockholm, Sweden) and her mentors are Drs. Birgitta Evengard (KI) and Peter Nilsson (KTH). She works with gene expression analysis using the microarray technology, which will be applied on a chronic fatigue syndrome cohort. Since August 2002 she has been a guest researcher at the Centers for Disease Control and Prevention (CDC) (Atlanta, GA) working with microarrays. She recently returned to Sweden to continue her studies. At the CDC she worked with resonance light scattering that uses gold particles for detection. This technology is more sensitive compared to fluorescent dyes that are mainly used today, which facilitates the use of lower sample amounts suitable for clinical use.





Visit the ICHC 2004 Website  
[www.ichc2004.org](http://www.ichc2004.org)



Site of the banquet: The Birch Aquarium at Scripps



K.L. Stahl

Whale sculptures at the entrance to the aquarium.

## HCS Annual Meeting

held jointly with the  
International Congress of Histochemistry and Cytochemistry,  
July 2004

The meeting will be held on the campus of the University of California San Diego at La Jolla. Scientific sessions will be held at the Price Center on campus.

More detailed information on the scientific program, award/grant applications, abstract submission, meeting registration, and housing will be found at [www.ichc2004.org](http://www.ichc2004.org).

Student travel grants deadline: 14 January, 2004

Student awards (Vector, Lillie) deadline: 14 January, 2004

Abstract (all on-line) submission deadline: 14 February, 2004

Early Meeting Registration deadline: 31 March 2004

Off-campus housing at nearby hotels will be found on the ICHC2004 webpage.

### *Abbreviated Preliminary Schedule*

#### **Saturday 24 July 2004**

Registration begins at noon, Keynote Lecture, Welcome Reception at Price Center

#### **Sunday 25 July**

Plenary lectures, exhibits open, symposia, poster session, afternoon reception

#### **Monday 26 July**

Symposia, special lectures, exhibits, poster session, workshops, afternoon reception, plenary lectures.

#### **Tuesday 27 July**

Symposia, special lectures, exhibits, poster session, workshops, afternoon reception plenary lectures, banquet at Birch Aquarium at Scripps. Exhibits close in afternoon.

#### **Wednesday 28 July**

Symposia, special lectures, exhibits, poster session, workshops, plenary lectures, afternoon reception and Closing Ceremony.

#### **Thursday 29 July**

On campus housing package includes Wednesday overnight campus accommodation. Participants may depart on Thursday.

## Preliminary ICHC 2004 Program

### SYMPOSIA

<i>Title</i>	<i>Organizer</i>
Muscle cell differentiation	Antonio de Luca (Italy)
Genome organization: basic principles and clinical implications	Martin Werner (Germany) & Franz Wachtler (Austria)
Extracellular matrix and inflammation	Thomas Wight (US) & Charles Frevort (US)
Pathology and cell regulation	Tetsuro Takamatsu (Japan)
Is histochemistry an omic?	Gary Coulton (UK)
Visualizing proteolysis	CJF van Noorden (The Netherlands)
Neuropeptides, signaling and gene expression	Pertti Panula (Finland)
Visualization of signal transduction	Naoaki Saito (Japan)
Angiogenesis and vasculogenesis	Dale Abrahamson (US)
Mast cell development and disease	Constance Oliver (Brazil)

### WORKSHOPS

Application of quantum dots to fluorescence histochemistry	Denis Baskin (US)
Automated histochemistry	Hinke Multhaupt (UK)
The impact of microscope-based technology on problems in diagnostic pathology	Alan Gown (US)
Retrieval of DNA, RNA and protein from archival tissues by AR based methods	Clive R. Taylor (US) & Shan-Rong Shi (US)

### PLENARY LECTURES

Visualizing signaling in living cells	Alexandra Newton (US)
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### OTHER SESSIONS IN PLANNING

Progression of androgen independence in prostate cancer (Symposium)  
Adhesion molecules and cancer (Plenary)  
Spectral imaging (Workshop)  
Laser capture microdissection (Workshop)  
siRNA techniques (Workshop)



University of California  
San Diego



Geisel Library at UCSD



Beginning of The Serpentine Trail  
K.L. Stani

## Recipients of HCS Awards



**Recipients of HCS Awards** at the Awards Banquet in San Diego. From left: Liping Luo, Julieta Barroeta, Cheryl Rimmer, Hanna Ojaniemi, Brett Everhart and Kevin Niswender. Not shown, Tomoko Furuya. Behind the podium Ray Papka and Beth Unger.

**The Vector Laboratories Young Investigator Award** was given to Liping Luo of Case Western University.

**The Ralph D. Lillie Award**, which recognizes an outstanding presentation by a pre- or post-doctoral student at the meeting, was awarded to Tomoko Furuya

of Yamaguchi University.

Travel awards to help defray costs of young histochemists-in-training who present at the annual meeting were given to: Kevin Niswender, Brett Everhart, Hanna Ojaniemi, Cheryl Rimmer, Julieta Barroeta, Tomoko Furuya and Liping Luo.

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