



The Histochemical Society NEWSLETTER

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A Letter From the President



Dear Friends,
Going into the second half of the first decade of the new century, the Histochemical Society is experiencing several transitions. Two of these involve the centerpiece of the HCS, *The Journal of Histochemistry and Cytochemistry*.

The first is the appointment of Dr. Kevin Roth as the new Editor-in-Chief. After several years in the very capable hands of Dr. Denis Baskin, the reins will be passed to Kevin in January 2006. During Denis' tenure, the JHC initiated Internet publishing in 1997 by joining a distinguished group of publishers whose journals are put online and hosted by HighWire Press of Stanford University.

While serving as Secretary of the HCS and chair of the Publications Committee, I had the good fortune

to be involved with Denis and The Journal as the JHC continued to advance in the electronic publishing world. During that period The Journal acquired an online manuscript submission and tracking system, offered the capability of online publishing of extended supplements, and most recently, activated our publish-ahead-of-print feature, JHC's exPRESS. As the new president of the HCS, I will continue to watch and be involved with the publication efforts of the JHC.

The second transition - one that the JHC and publications from other scientific societies are going through - is the movement to Open Access. The foray into online publishing had been heartily embraced by the scientific community, and like everything else on the Internet, cruises on the World Wide Web assumed it all should be free.

Many were piqued when subscription costs for online journals and print journals escalated, especially by commercial publishers. There remains an erroneous perception that while the

print edition has costs, the paper, ink, photos, etc., the same content pulled in from the Internet ether did not, and should thus be free. The concept of 'Open Access' was born and grew.

Readers of Internet journals do not fully understand that the initial cost of putting an article on-line costs as much as an article that is printed on paper, since the cost of the peer review process is identical for both. Moreover, unlike the publication of a printed article, the online version continues to incur costs to the publisher (both the commercial and not-for-profit publishers) who must pay for Web hosting and servers. These costs need to be passed on to subscribers by both types of publishers.

In this climate, the not-for-profit and scientific society publishers such as the Histochemical Society, have found themselves on the receiving end of criticism directed at the commercial publishers for increasing publication costs. However, it must be recognized that the majority of electronic versions of the scientific

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President's Letter cont.

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literature have been provided free on-line by the not-for-profit and scientific society publishers. The JHC, for example, grants free access to all of its contents over one year old, and the spirit of this concept of free access has been advanced by the JHC's foray into free access to exPRESS articles on-line.

One of the privileges of being president of the HCS is to be directly involved in the planning of an annual meeting. I am especially pleased to be involved in a quadrennial event, the combined meeting of the Histochemical Society and The Japan Society of Histochemistry and Cytochemistry (JSHC) in Hawaii in late August of 2006.

Dr. Toyoshi Fujimoto from the JSHC and I are responsible for the organization of that meeting. The theme of the meeting is "The Nexus of Histochemistry and Molecular Genetics", with a focus on the application of genetically encoded and fluorescently tagged signaling molecules, receptors, substrates, and biosensors in live cells in real time. Since histochemistry and cytochemistry also play a prominent role in pathology, workshops and symposia on the diagnosis and the study of disease pathogenesis are also being planned.

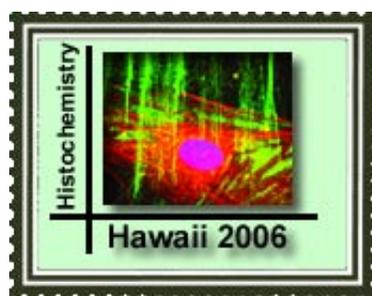
The program is in a preliminary stage, but we have an excellent line-up of speakers, including Dr. Jennifer Lippincott-Schwartz from the NIH who will present the keynote lecture. Other speakers include Dr. Tobias Meyer, Stanford University and Dr. Yoshinori Ohsumi, National Institute for Basic Biology, Okazai, as plenary lecturers, and Dr. Eugene Johnson, Washington University, who will deliver *The Journal of Histochemistry and Cytochemistry* Lecture. Symposia will include a session entitled "Molecular Regulation of Neurodegeneration" and one on "Live imaging of signal transduction". As is the usual with our meetings, there will be excellent 'how-to-workshops'.

Watch for announcements about the meeting as planning progresses by reading the newsletters, advertisements in *The Journal of Histochemistry and Cytochemistry*, visiting the JHC website, <www.histochemicalsociety.org>, and the meeting website which can be found at <www.histochemistry2006.org>.

I look forward to seeing you in Hawaii at the annual Histochemical Society next August, 2006.

Sincerely,

Joseph Mazurkiewicz



Joint Congress of the
HCS
and the
JSHC
August 23-26, 2006

To be held at The Marriott Beach Hotel, Waikaloa, The Island of Hawaii
For more information visit the meeting website at:

<http://www.histochemistry2006.org>



We are happy to welcome Kevin Roth as the new Editor-in-Chief of the *Journal of Histochemistry and Cytochemistry*. He will assume this post in January 2006.

Kevin A. Roth received his B.S. degree (Behavioral Science) in 1979 from the University of Michigan followed by M.D. and Ph.D. (Neurosciences) degrees from Stanford University School of Medicine in 1985. After residency training in anatomic pathology and a neuropathology fellowship at Washington University in St. Louis, he was appointed in 1989 to the faculty in the Departments of Pathology and Immunology and Molecular Biology and Pharmacology at Washington University and was subsequently promoted to Professor in 2001. Since 2002, Dr. Roth has been a Professor of Pathology and Director of the Division of

Neuropathology at the University of Alabama at Birmingham School of Medicine. In addition to his research, clinical and teaching responsibilities, Dr. Roth is an Associate Editor for the American Journal of Pathology and serves on the Editorial Board of the Journal of Neuropathology and Experimental Neurology. He has served as a Councilor and as Treasurer of The Histochemical Society.

His research has centered on roles of the Bcl-2 and caspase families in regulating neuronal apoptosis. His group has extensively used mouse models with targeted gene disruptions in specific bcl-2 and caspase family members, in combination with a variety of in vivo and in vitro models, to define the cell- and stimulus-specific molecular pathways of neuronal cell death. He has published over 150 papers related to his research activities, which have been funded by research grants from the NIH.

Dr. Roth is an enthusiastic proponent of histochemistry and cytochemistry as scientific disciplines and of the JHC as the purveyor of the most significant advances in these fields. He commented, "I am convinced that the JHC can ascend the ranks of cell biology journals and provide a forum for important studies of gene expression and function from which mechanistic-based hypotheses will arise".

Kevin and his wife, Dr. Robin Lorenz, have two children (ages 11 and 14) and are actively involved in their children's school-related activities such as band, mathematics team, wrestling, and performing arts. Kevin is an avid sports fan and a regular attendee at University of Alabama at Birmingham sporting events, Birmingham Baron's minor league baseball games, and St. Louis Rams football games.

Future Meetings of the Histochemical Society

2007 April 29 - May 2

Joint with American Society for Investigative Pathology at Experimental Biology 2007
Washington Convention Center, Washington, D.C.

2008 April 5-9

Joint with American Society for Biochemists and Molecular Biology at Experimental Biology 2008
San Diego Convention Center

Report on 2005 Joint Meeting with the Society for Histochemistry

The First Joint Meeting of The Histochemical Society and the Society for Histochemistry, Noordwijkerhout, The Netherlands, April 27-30, 2005

As organizer of the first joint meeting of the European Society for Histochemistry and the American Histochemical Society in Noordwijkerhout, The Netherlands on April 27-30, 2005, I was worried most about the weather forecast during the month before the event took place. What has histochemistry to do with the weather? We histochemists do our job usually with as little day light interference as possible, to be able to fully appreciate the staining reaction we have performed under the microscope. Well, a large part of the fun of the meeting had to be the fields with blooming tulips surrounding Noordwijkerhout. It is the area where tulips have been cultivated since the flower was introduced from the Turkish mountains into the Western world in 1570. Three weeks before the meeting started, The Netherlands enjoyed an unusual warm and sunny spell and as much as I enjoy sunshine, this was probably the first time I could miss it like a toothache because by the end of April all flowers could have been gone. Happily, the warm spell lasted only a few days and was followed by weeks of cold weather that retarded flowering. In the end, the meeting appeared to be scheduled at exactly the right moment. The surroundings of Noordwijkerhout were one big colourful happening. I am sure all visitors have enjoyed it, including those from The Netherlands, because the spectacle never ceases to amaze after a long bleak winter.

So, one condition to make the joint meeting a success was fulfilled. Looking back on the event itself, I believe it was a great success. About one hundred fifty histochemists attended from all over the world and from the very beginning there was a great deal of mixing of the various groups of histochemists, which is an extra one hopes for when organizing a meeting for more than one society. Science was exchanged, long-lasting friendships were continued, new friendships were born. It was great fun, but the major goal of a scientific meeting was met too: the science was superb.

The main topic was live cell cytochemistry and the contributions were state of the art. The lectures must have been inspiring for those who perform microscopy on fixed specimens to add live cell imaging to their armamentarium. Technology in this field is rapidly developing; new non-toxic fluorescent or coloured

probes are being developed, new approaches in microscopy allow imaging with less and less toxic effects of the light needed for visualization. The dynamics in live cells are especially fascinating. Now we come to realize how complex cells are when alive, with all the metabolic events happening at the same time, that are orchestrated into the symphony that is called life. And then, all these cells together make a multicellular system. It goes beyond our comprehension, at least my comprehension.

To say the least, this meeting demonstrated that histochemistry and cytochemistry will provide years of scientific work to understand cell and tissue physiology and pathophysiology.

All in all, I consider myself fortunate to have been able to organize this joint annual meeting. It has been a rewarding experience thanks to the contribution of all participants and especially of Trees Pierik, my secretary, who has done the largest part of the organization in a meticulous way. I can tell you it was a huge job she did extremely well.

Next year's meetings will be on Hawaii for the Histochemical Society as a joint meeting with the Japan Society of Histochemistry and Cytochemistry, and in Pavia (Stresa), Italy, for the Society for Histochemistry and Cytochemistry during the summer. I wish the local organizers Joe Mazurkiewicz and Marco Biggiogera the same rewarding experience as I enjoyed.

Ron Van Noorden



Midori Osamura and Patty Baskin enjoy tulip gardens.

Awardees at the 2005 Meeting in The Netherlands



Subrina Jesmin, Ray Papka, Chair of the Awards Committee, and Chun-mei Lu

Subrina Jesmin was recipient of a Histochemical Society Travel Award and the Vector Laboratories Young Investigators Award for the 2005 Joint meeting in the Netherlands. She received an M.D. degree from the University Rajshahi, Bangladesh in 1997 and her Ph.D. from the Hokkaido University Graduate School of Medicine, Sapporo, Japan in 2003. She has done post-doctoral work at the Hokkaido University in Sapporo and at the University of Tsukuba, Japan. Her work centers on the vascular biology field, with a special interest in cardio- and cerebrovascular circulation. Rat and mouse models are used to study diabetes, hypertension, stroke, estrogen deficiency, and sepsis. She investigates morphological alterations, specifically molecular and genetic changes in the microvasculature of heart and brain. Different cardio- and neuro-protective drugs are used in these disease models to observe their effects on cardiac and cerebral micro-circulations. Her address is: The Division of Cardiovascular Medicine, Inst. of Clinical Medicine, University of Tsukuba, Tsukuba, Ibaraki 305-8575, Japan.

Chun-mei Lu, recipient of a travel award from the Histochemical Society to attend the annual meeting, received her B.S. degree in Chemistry from Tamkang University, Taipei in 1987, and MS (1989) and Ph.D. (1999) degrees from the National Tsing Hau University in Hsinchu, Taiwan. She is currently a postdoctoral fellow at the University of California in the laboratory of Heinz-Ulrich Weier. Her work involves use of bacterial artificial chromosome clones for breakpoint mapping. Novel clone pooling strategies are used to accelerate delineation of chromosome translocation breakpoints. In vitro fertilization and pre-implantation genetic diagnosis benefit from breakpoint maps of the preparation of patient-specific probes for selection of normal offspring. Her address is: Dept. of Subcellular Structure, Life Sciences Div., University of California, O.E. Lawrence Nat. Lab., MS 74-157, 1 Cyclotron Rd., Berkeley, CA. 94720

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Ralph Lillie Awardee



Natalia V. Gounko received the Ralph Lillie Award of the Histochemical Society at the annual meeting in the Netherlands. She earned a B.S. in Biology in 1999 and a Magistrate degree in Neurobiology in 2001 from the St. Petersburg State University in Russia. Currently, she is a doctoral student at the University of Groningen, The Netherlands in the Department of Cell Biology, working in the laboratory of Professor Han van der Want. Her major area of interest is developmental neurobiology. Organotypic cerebellar slice cultures are used to investigate the role of corticotropin releasing factor and urocortin in Purkinje cell dendritic development. Her work supports the function of urocortin as a regulator of transcription of target genes; the major function of corticotropin releasing factor may be to regulate the distribution of trans-membrane proteins in the postsynaptic membrane, most probably via cytoskeletal changes. Her address is: Dept. of Cell Biology, Lab. for Electron Microscopy, Antonius Deusinglaan 1, 9713 AV Groningen, The Netherlands

Business Meeting Minutes, 55th Annual Meeting of the Histochemical Society **Leeuwenhorst Hotel, Noordwijkerhout, The Netherlands** **1:15PM, Thursday, 29 April 2005**

Attendance – Officers: President Ron Van Noorden, President-Elect Joseph E. Mazurkiewicz, President-Elect Designate Hinke Multhaupt, Secretary/Treasurer Charles W. Frevert. Councilors: Debra Hazen-Martin, Kelley Murphy, Robert Osamura, Raymond Papka, Eduardo Rosa-Molinar, Linda Sandell, Heinz-Ulrich Weier. Executive Director William Stahl, Director of Corporate Affairs Stephen Carmichael; Editor-in-Chief Denis Baskin (the Journal of Histochemistry and Cytochemistry), Editor-Designate Kevin A. Roth, Subscriptions and Marketing Manager Meg McGough, Executive Secretary Tanda Jaipen.

Absent: Past-President John R. Couchman, Councilor Antonio Nanci.

1. Call to Order. The President convened the meeting at 1:15PM.
2. Report on ICHC2004. The President recapped the 2004 meeting in La Jolla, California, commenting on its strength and success. He concluded that the meetings of the International Federation are still vital and the HCS organized a great meeting.
3. President's Report on Joint Meeting 2005. The President commented on the success of this joint meeting. He was pleased with the positive attitude of everyone present. He noted that the science was excellent and the meeting received a lot of sponsorship which should lead to a break-even financially. He was very positive about the joint meeting between The Histochemical Society and the Society for Histochemistry and would like to meet jointly again.

Carmichael was personally disappointed at the number of American attendees, although the European membership was high. He questioned why more Americans didn't come. Papka responded by noting that many people had likely decided between this meeting and others happening in April, such as Experimental Biology (FASEB). Stahl commented that the venue is excellent and the layout is highly desirable. The posters are placed in a way that draws interaction between scientists.

Business Meeting Minutes cont.

Baskin wanted to know the impression of the Society for Histochemistry. The President stated that they were very positive about it and that they might be open to coming to the US for a joint meeting.

4. Awards Committee Report. The Awards Committee Chair, Raymond Papka, announced the award recipients. They were as follows:

Travel Award

Amy Lu - University of California, Berkeley, USA
Subrina Jesmin - University of Tsukuma, Japan

Lillie Award

Natasha Gounko - University of Groningen, The Netherlands

Vector Laboratories Award

Subrina Jesmin - University of Tsukuba, Japan

5. Finance Committee Report. Stahl reported on the Society's finances, reviewing the 2004 balance sheet, total equity, and current finances. He reported to the attendees that the HCS Business Office currently operates out of Seattle and handles all financial records. Stahl offered to answer any questions and suggested that Frevert could also be contacted.

6. Report on Upcoming Meetings. Frevert reviewed the three upcoming meetings, now in the planning stages:

- a. 2006 Joint Meeting with the Japanese in Hawaii. This is being planned by Joseph Mazurkiewicz and Toyoshi Fujimoto. It will take place August 23-27, 2006 on the Big Island of Hawaii, and will be entitled, The Nexus of Histochemistry and Molecular Genetics: real time visualization of signaling processes in living cells and tissues. The meeting website will be available this summer at: histochemistry2006.org.
- b. 2007 Meeting will be held in conjunction with Experimental Biology, sponsored by the American Society of Investigative Pathology. The meeting is being planned by Hinke Multhaupt and will be in Washington, D.C., April 2007.
- c. 2008 Meeting will most likely be another joint meeting with Experimental Biology, possibly sponsored by the American Society of Biochemistry and Molecular Biology. The meeting is being planned by Linda Sandell. This meeting will be in San Diego, April 2008.

7. Editor's Report. Van Noorden noted that this is the last report of the current Editor, Denis Baskin. The Editor highlighted that manuscript submissions have increased, as have the number accepted and published. The Journal has maintained a consistent rate of about 60% accepted manuscripts and 40% rejected manuscripts. There have also been some changes to the Editorial Board: James Jamison, Josiah Wilcox, and Jans Slot have voluntarily retired from the Board this year. Also, Stanley Erlandsen, an Associate Editor of the Journal, just had kidney transplant and is doing very well and he wanted to convey his greetings to everyone at the meeting.

Baskin announced that with the help of Ulli Weier, the Journal published a special issue devoted entirely to fetal development, which was highlighted at the "14th Workshop on Fetal Cells and Fetal DNA" meeting in Jena, Germany. The issue was published in March 2005.

Also noted was that JHC express articles are now being published. These are accepted manuscripts that are put online as PDFs within a couple of weeks of acceptance, before print publication. The manuscript documents are put up on the journal website in their raw, unedited form. At that point they are cited in PubMed. This is a rapid and

Business Meeting Minutes cont.

open-access form of publication. Sandell commented how *The Journal of Biological Chemistry* sets up its digital documents in columns and that this is very helpful in keeping the files small, and thus easier to download. Baskin responded that this has been discussed and would probably be relatively simple to implement, but noted that the plan is to try things as they are right now so that other bugs can be worked out first.

Lastly, Baskin noted that this is the last year of his editorship and announced that Kevin Roth has been selected to hold this position starting January 2005. The Journal Office is now developing plans to make the transition as seamless as possible.

8. Comments by the Editor-Elect. Kevin Roth reported that he is anxious to take on the job and he is very committed to the Journal's success. He asked Council to please email any suggestions or comments about anything and he will be responsive. He noted that he's looking forward to the challenge of the editorship.

9. Introduction of the new President. Van Noorden passed the reins to Joseph Mazurkiewicz as the new president. Van Noorden wished him success in the coming year. Mazurkiewicz was very pleased to accept this role and thanked Van Noorden for the success of this scientific meeting.

Mazurkiewicz reported on the organization of the Joint Meeting with the Japan Society in Hawaii and that the theme will be Live Cell Imaging, bringing in aspects of using these techniques in pathology and diagnosis. He noted that speakers have been identified and details will soon be posted on the histochemistry2006.org meeting website.

Baskin wanted to extend a thank you to Stahl and the staff at the Business Office, Meg McGough, Tanda Jaipean, and Suzanne Paquette.

Meg McGough noted that Dan Friend has supplied the beautiful artwork for advertising this meeting and the upcoming meeting in Hawaii.

Stahl extended his thanks to Ron Van Noorden and Trees Perik for all the work in organizing this joint meeting.

10. Adjournment. Mazurkiewicz adjourned meeting at 2:00PM.

Scenes from Keukenhof Gardens



2006 Joint Meeting Announcements

Preliminary Program

The scientific program is being developed and will be published in more detail on the webpage as it becomes available. The keynote lecturer and plenary lecturers have been announced by the program committee.

Keynote Lecturer

Jennifer Lippincott -Schwartz
Cell Biology and Metabolism Branch NICHD, NIH

Plenary Lecturers

Tobias Meyer
Department of Molecular Pharmacology, Stanford University

Yoshinori Ohsumi
Department of Cell Biology, National Institute for Basic Biology

Eugene M. Johnson
Alzheimer's Disease Research Center, Washington University

Symposia and Workshops

•Antigen retrieval •Quantitative FISH •Diagnostic pathology •Laser capture microdissection •Live imaging of signal transduction
•Intensity based FRET •Image analysis for publication •Correlative biological imaging •RPI-Trace 3D neuroanatomic tracing •EM of membrane lipids and proteins •Regulation of neurodegeneration

ABSTRACT DEADLINE APRIL 10, 2006

Special Lecture

A special talk entitled "Beyond the Basics-Optimizing your figures for print and online publication" was contributed by Suzanne Paquette at the Annual Meeting 2005 in The Netherlands. To view it go to: www.histochemicalsociety.org/presentations/

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