



The Histochemical Society NEWSLETTER

Spring 2008

Vol. 21 Number 1

EB2008

To do list...

Visit HCS Booth: #1305 in the
Conventiion Center

Register for and attend Im-
munocytochemistry Short
Course

Be there early on Apr 6. for
Plenary Lecture

Make it to the Live Imaging
Symposium

Remember Laser Capture
Symposium

Monday - go to Phenoms
Symposium

Go to HCS Business Meeting
- say hi to new officers

Attend JHC Editorial Board
Meeting



HCS Webpage

www.histochemistry.org

2008 Meeting Webpage

www.histochemistry2008.org

A Message from The Newsletter Editor



Dear Colleagues:

Starting with the current issue, we plan to publish three issues of The HCS Newsletter annually: a Spring issue appearing in mid-March just prior to the Annual Meeting of The Histochemical Society; a Summer issue appearing in mid-August and; a Fall/Winter issue, appearing in late – November. The annual meeting is the highpoint in the activity calendar of the HCS and each issue will have as its center point, topics related to some aspect of the meeting.

In the Spring issue the focus will be on the meeting for that year. Similar to what you will see as you read further in this issue, will be links to the finalized program and the details of a newly re-insti-tuted endeavor by the HCS: Short Courses on a variety of topics that

utilize the expertise for which the HCS is noted. The Short Course for this year's meeting is entitled "The Principles and Applications of Immunocytochemistry". The results of the annual election of officers and councilors will also be reported. For 2008, The HCS will meet in San Diego April 5-9 as part of Experimental Biology 2008, as a guest society of the American Society for Biochemistry and Molecular Biology (ASBMB).

The Summer issue will include reports on activities that occurred at the annual meeting, including such topics as the Student Travel
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Editor's Message *cont.*

Award Recipients; the Outstanding Young Investigator Award; and other awards presented by the Society that are presented on a less regular basis including the Anna-May Carpenter-Ellen Rasch Award, the Ralph D. Lillie Award, and The Vector Laboratories Young Investigator Award.

The major business of the Society is conducted at two Council Meetings held during the annual meeting, one prior to and one immediately following the meeting activities. The Summer issue will highlight reports, from the several standing committees of The Society as well as the deliberations of the Council, that impact on the Society's membership.

As you may have already noted, the HCS has moved to holding the annual meeting in conjunction with the Federation of American Societies for Experimental Biology as a guest of a member society of the FASEB. Meeting with this larger group of scientists makes our Society more visible, provides our members with a wide range of sessions to attend during the annual meeting and gives stability to the HCS calendar by holding the annual meeting at a set time of year.

Members of the Program Committee have already begun planning events for future meetings and preliminary discussions could be a topic of that Newsletter.

The Fall issue will also contain information related to the next meeting of the Society in the following Spring, reporting on the progress of the program as it develops. We will solicit input from the membership for future symposia topics, workshops and most of all, volunteers to work with the Program Committee in planning and managing future meetings.

In addition to the focus on the annual meeting, each issue of the Newsletter will serve to keep membership abreast of happenings related to members of the HCS and issues that can have an impact on the HCS membership and HCS as an entity.

This inaugural issue is short and sweet, but we plan to expand on topics as this endeavor matures.

Joe Mazurkiewicz
Newsletter Editor
January 2008



Newsletter Contributions

HCS members who wish to contribute articles and announcements to upcoming newsletters should send the material to Joe Mazurkiewicz by email : mazurkj@mail.amc.edu

Articles should be of interest to HCS members to be considered for inclusion in the newsletter.



Message From The Executive Director



Dear Members,

I invite you to review the sessions that the Society will be sponsoring at the Experimental Biology meetings in San Diego that are presented in this newsletter. Please consider registering for the meeting as an HCS member (reduced rate) and attend our sessions and many others that are part of the EB2008 meeting.

At the meeting, plan to visit the HCS booth in the exhibit area to meet HCS staff and Council members. Also, The Journal of Histochemistry and Cytochemistry

Editorial Board Meeting on Monday afternoon is open to members and non-members and provides an opportunity for you to meet with the Editor-in-Chief, Kevin Roth; members of the Board; and staff members responsible for operation of the Journal. The HCS Business Meeting will be held on Monday evening and will provide an opportunity to meet with colleagues and provide input to Council about the operations and future activities of the Society. The Business Meeting is also open to both members and non-members.

On Saturday, April 5, 2008, HCS has organized a one-day, pre-meeting short course focused on the important aspects of Immunocytochemistry for Scientists working in research and clinical laboratories. The course will benefit a broad range of users of the technique. If you have a colleague, fellow, student or technician in your laboratory who is either using or planning to utilize immunocytochemistry in their work, this course will be of value to them. It is not too late to register for this course.

This course on Immunocytochemistry is the first of a planned series of short courses that HCS will organize at the Experimental Biology meetings and the HCS Program Committee would welcome your recommendations about future courses. Hinke Multhaupt is chair of the Program Committee.

The Society continues to recruit new members. You may know that the Council has recently authorized a new category of awards (Travel Awards for Research Scientists) to bring more established scientists into HCS. The new award category is listed on the HCS webpage (www.histochemicalsociety.org) and provides an award of \$1,000 for a successful candidate to attend and present at the next Experimental Biology in 2009 in New Orleans (joint meeting with the American Association of Anatomists).

I hope to see you in San Diego in April.

Bill Stahl
Executive Director



2009 HCS Annual Meeting

Joint Meeting with American Association of Anatomists
Ernest N. Morial Convention Center, New Orleans

Short Course: Saturday, April 18th, 2009

Joint meeting: Sunday April 19-Monday April 20th, 2009

Business Meeting & Editorial Board Meeting:

Monday, April 20th, 2009

Plan ahead to meet with HCS at EB2009 in New Orleans



HCS 2008 Short Course

HCS SESSIONS at SAN DIEGO, APRIL 5-7, 2008
Saturday, April 5, 2008, 8 AM-4:30 PM

A Technique Specific Short Course *Principles & Applications of Immunocytochemistry* (<http://immunocytochem.wordpress.com/>)

Separate registration fee required.
San Diego Marriott Hotel and Marina, San Diego, CA
Organizers: Denis G. Baskin and William L. Stahl

SYLLABUS

8:00 AM

Introduction

William Stahl, The Histochemical Society and University of Washington School of Medicine,
Seattle, WA

8:15 AM

Concepts Related to the Practice of Immunocytochemistry

Gwen V. Childs, University of Arkansas School of Medicine, Little Rock, AK

9:00 AM

Sample Preparation – Fixation

Richard Burry, Ohio State University, Columbus, OH

9:35 AM

Antibodies

Allen Gown, PhenoPath Laboratories, Seattle, WA

10:10 AM Coffee Break

10:25 AM

**Detection Methods: The Labels, Direct, Indirect, ABC; Label types - Fluorescence, HRP,
Amplification, Q-dots**

Richard Burry, Ohio State University, Columbus, OH

11:10 AM

**Detection Methods: The Procedures, Tissue prep, Reagents, Antibodies, Protocols,
Microscopy**



HCS 2008 Short Course

Richard Burry, Ohio State University, Columbus, OH

11:45 AM

Antigen Retrieval

Allen Gown, PhenoPath Laboratories, Seattle, WA

12:20 PM Lunch

1:00 PM

Amplification Methods

Kevin Roth, University of Alabama School of Medicine, Birmingham, AL and the *Journal of Histochemistry and Cytochemistry*

1:35 PM

Double-Labeling and Localization Strategies

Gloria Hoffman, University of Maryland at Baltimore, MA

2:25 PM

Controls

Richard Burry, Ohio State University, Columbus, OH

3:00 PM

Interpreting Microscopic Images

Alison J. North, Rockefeller University, New York, NY

3:45PM

Closing Remarks and Questions from the audience

Denis G. Baskin, University of Washington School of Medicine and VA Puget Sound Medical Center, Seattle, WA and *the Journal of Histochemistry and Cytochemistry*



Immunocytochemistry Short Course

This course will bring together an unusually gifted group of histochemists with extensive experience with immunocytochemistry. It is a great opportunity for everyone to get together and learn immunocytochemistry.

There is still space in the short course; send your colleagues, students, fellows and techs. The course includes lectures, lunch, and the printed manual of the course. It is a great opportunity to meet, learn and discuss immunocytochemistry.



**Annual Meeting of the Histochemical Society
Jointly Held with the
American Society for Biochemistry and Molecular Biology
at
Experimental Biology 2008
San Diego, California, April 5-7, 2008**

**Sunday, April 6, 2008
8:00-9:00 AM**

San Diego Convention Center, Room 6D Upper Level

***The Journal of Histochemistry and Cytochemistry*
Plenary Lecture**

**Genome-Wide Mapping of Gene Expression in the Adult Mouse Brain
Ralph B. Puchalski, Allen Institute of Brain Science,
Seattle, WA**

9:55 AM-12:15 PM

San Diego Convention Center, Room 1B Upper Level

***Joint Symposium of HCS and ASBMB*
Live Imaging of Developmental Processes**

Chairs

**Linda Sandell , Washington University, St. Louis, MO
and**

Robert Mecham, Washington University, St. Louis, MO

Time-Lapse Imaging of Extra-Cellular Matrix Assembly

Robert Mecham, Washington University School of Medicine, St. Louis, MO

Time-lapse Confocal Analysis of Cell Movement in the Embryo

Paul Kulesa, Stowers Institute For Medical Research, Kansas City, MO

**Computational Analysis of Local Motion versus Tissue Displacement in Early
Embryos: Which cells are really moving and where are they going?**

Charles Little, University of Kansas Medical Center, Kansas City, MO

High-Throughput, Whole-Embryo, Time-Lapse Imaging of Zebrafish Embryogenesis

Sean Megason, Harvard University, Boston, MA

Live-Cell Imaging of Endothelial Cell Tube Formation: Inhibition by Chondrostatin

Linda J. Sandell, Washington University, St. Louis, MO



3:00 PM-5:00 PM

San Diego Convention Center, Room 1B Upper Level

HCS and ASBMB Joint Symposium

Laser Capture Micro-Dissection for Molecular Analysis

Chairs

Thomas N. Wight, Hope Heart Program, Benaroya Research Institute, Seattle, WA
and

Denis G. Baskin, Seattle VA Puget Sound Health Care System, Seattle, WA

**Laser Capture Microscopy as a Tool for Deciphering the Clinical
Relevance of Molecular Signatures of Cancer Cells**

James L. Wittliff, University of Louisville, Louisville, KY

**Coupling LCM to Gene Expression and Microproteomics: Novel Approaches to
Molecularly Define Pediatric Coronary Artery Intimal Occlusive Lesions**

Amy L Juraszek, Children's Hospital Boston, Harvard Medical School, Boston, MA

The Use of LCM for Proteomic Analysis of Inclusions in Neurodegenerative Disease

Thomas Montine, University of Washington, Seattle, WA

**Tracing Studies in Rat provide Sensitive Gene Expression Data for Neurons Innervating
the Bladder and Urethra**

Hannah Brinkman, Pfizer, Drug Safety Research and Development, Sandwich Laboratories,
Ramsgate Road, Sandwich, UK

**Laser Capture Micro-Dissection: Combining LCM with Immunohistochemistry to
Investigate NMDA Receptor Subunit Composition**

John A. Curry, Pfizer, Biomarkers and Translational Biology, Ramsgate Road, Sandwich, UK

**Use of Laser Capture Micro-Dissection for the Study of Functional Differentiation of
Pituitary Adenoma Cells**

Robert Y. Osamura, Tokai University School of Medicine, Isehara-city,
Kanagawa, Japan

Program Continues on next page



HCS Thanks 2008 Meeting Sponsors

E-Y Laboratories

MDS Analytical Technologies

Vector Laboratories

The Journal of Histochemistry and Cytochemistry



Monday, April 7, 2008

9:55 AM-12:15 PM

San Diego Convention Center, Room 1B Upper Level

HCS Symposium

Phenoms in the Phenome: Experts in Cellular Imaging from Single Molecules to Mice

Chairs

Eduardo Rosa-Molinar, University of Puerto-Rico, San Juan, Puerto Rico
and

Richard Levenson, Cambridge Research and Instrumentation, Inc., Cambridge, MA

Visualization of Viruses and Embryos

Rusty Lansford, California Institute of Technology, Pasadena, CA

High-Speed and Long-Term Imaging of Cell Dynamics in the Developing Heart

Michael Liebling, University of California-Santa Barbara, Santa Barbara, CA

Fluorescent Biosensors for Cell Pathways

Alan S. Waggoner, Carnegie Mellon University, Pittsburgh, PA

Cellular Communication in Insulin Secretion Ex Vivo and in Vivo

David W. Piston, Vanderbilt University Medical Center, Nashville, TN

The Digital Fish Project- In Toto Imaging and Flip Traps for Digitizing Development

Sean Megason, Harvard University, Boston, MA

12:00-2:00PM

***Journal of Histochemistry and Cytochemistry* Editorial Board Meeting**

Editorial Board Meeting is open to all HCS members and interested persons.

(refreshments served)

San Diego Marriott Hotel and Marina

5:30-7:00PM

The Histochemical Society Business Meeting

HCS Business Meeting is open to all HCS members and interested persons.

(refreshments served)

San Diego Marriott Hotel and Marina

You are Invited to Attend

The JHC Editorial Board and the HCS Council invites you to attend the Journal of Histochemistry and Cytochemistry Editorial Meeting on Monday, April 7th from 12-2 PM in the Coronado Room of the Marriott Hotel. Open to all. Lunch. Learn more about your Society's Journal.

The HCS Council and staff encourages HCS members and friends to come to the HCS Business Meeting on Monday, April 7th, 5:30-8 PM in the Coronado Room of the Marriott Hotel. Light hors d'oeuvres. This an opportunity to meet colleagues, friends and new members and to discuss issues that are important for the future of HCS. Bring a colleague! This is an open meeting.



AWARDS AT EB2008

HCS congratulates the following recipients of awards which will be presented at the Business Meeting of the Society on Monday, April 7, 2008 at the Marriott San Diego Hotel and Marina.

HCS Outstanding Young Investigator Award

James Whiteford
University of Copenhagen

Ralph Lillie Award

Julia Schmitz
University of Alabama at Birmingham

Vector Laboratories Outstanding Young Investigator

Ernest Blevens
University of Washington

HCS Research Scientist Travel Award

Buffie Clodfelder-Miller
University of Alabama at Birmingham

Student Travel Awards

James Whiteford, University of Copenhagen

Ernest Blevens, University of Washington

Julia Schmitz, University of Alabama at Birmingham

K.C. Walls, University of Alabama at Birmingham

Carolyn Durham, University of Alabama at Birmingham

Nicole M. Brossier, University of Alabama at Birmingham



Results of the 2008 HCS Election



PRESIDENT-ELECT DESIGNATE
ANTONIO NANCI
(President 2011)

Professor, Cell Biology, Director, Department of Stomatology, and Director of the Laboratory for the Study of Calcified Tissues and Biomaterials at the Faculty of Dentistry at Université de Montréal, QC, Canada

Positions Held: Past-President of the Canadian Association of Dental Research; HCS Council, 2003-2006; Chair, HCS Publications Committee, 2005-present.

Editorial Board: Associate Editor for the Journal of Histochemistry and Cytochemistry.

Research Interests: the study of the cell and molecular events implicated in the formation of normal and pathological calcified tissues (tooth and bone), in their repair and in the osseointegration of biomaterials. Ultimately, he is interested in translating the knowledge acquired to the development of innovative therapeutic approaches and biomaterials based on biologics. More specifi-

cally, the laboratory is developing nanostructured surfaces that can intrinsically provide physicochemical cuing for cell differentiation and can selectively influence cell growth. The approaches used are histochemistry, electron microscopy, molecular analyses, and local gene transfer.



COUNCILOR
MARGARIDA BARROSO
(3-year Term)

Assistant Professor, Center for Cardiovascular Sciences, Albany Medical College, NY, 2003-present.

Education and positions held: BS/MS, Biology, Faculty of Science, University of Lisbon, Lisbon, Portugal, 1986; Ph.D., Genetics, Faculty of Science, University of Lisbon/ Gulbenkian Institute of Sciences, Oeiras, Portugal, 1986-91; Post Doctoral Research Associate, Cell Biology, Department of Molecular Biology, Princeton University, 1991-94; Research Staff Member, Cell Biology, Department of Molecular Biology, Princeton University, 1994-95; Assistant

Professor, Department of Biology, University of Virginia (UVA), 1995-2003.

Honors: NSF, Wellcome Trust and Cancer Society (UK) and ETH Zurich Research Commission, ad-hoc grant reviewer, 2000-present; NSF, Cellular Organization Review Panel, 2001; Keck Center for Cellular Imaging (KCCI), UVA, FRET Microscopy Workshop, Faculty, 2002-present; KCCI, FRET Microscopy Workshop, Scientific Advisory Panel, 2003; NIH, Director's Roadmap Initiatives for Biomedical Science "Technology Centers for Networks and Pathways" Study Section, 2004-05; NIH, Light Microscopy Shared Instrumentation Study Section, 2005; EMBO, Light Microscopy in Living Cells Course, Institute Gulbenkian of Science, Oeiras, Portugal, Faculty, 2005; NIH NIDDK, Special Emphasis Review Panel, 2006; NIH, Confocal Microscopy and High-end Instrumentation Study Section, 2006.

Scientific Societies: American Society of Cell Biology (ASCB), Biophysical Society, Histochemical Society, Sigma Xi.

Research Interests: Regulation of membrane trafficking in epithelial polarized cells, high-resolution analysis of membrane receptor organization, low-density lipoprotein (LDL) receptor trafficking, automated quantitative FRET/FLIM analysis, FRET biosensors, confocal and spectral imaging microscopy, quantum dots, quantitative immunohistochemistry of cancer markers.

Election News continues on next page





Election Results *cont.*



COUNCILOR
GLORIA E. HOFFMAN
(4-year Term)

Professor, Department Anatomy and Neurobiology and Psychiatry, University of Maryland, 1996-present.

Education and positions held:

BS, Biology and Chemistry University of Illinois, Chicago, 1968; MS/PhD Pharmacology, University of Illinois Medical School, Chicago, 1974; Postdoctoral fellowship, Anatomy, University of Rochester, 1974-1978.; Assistant Professor, Anatomy and Neurobiology, University of Rochester, 1978-1983; Associate Professor, Anatomy and Neurobiology, University of Rochester, 1983-1987; Adjunct Associate Professor, Anatomy and Neurobiology, University of Rochester, 1987-1990; Associate Professor, University of Pittsburgh, 1987-1994; Professor, University of Pittsburgh, 1995-1997.

Honors:

NIH Research Career Development Award, 1977-1982; Andrew Mellon Foundations Award for Teaching and Scholarship, 1985-1987

Scientific Societies:

Society for Neuroscience, The Histochemical Society (Council 1989-1993; Awards Committee, 1995-present); Editorial Board Experimental Neurology, Editorial board, J. Chemical Neuroanatomy; Editorial Board, Endocrinology.

Research Interests:

Dr. Hoffman's work has focused on the CNS control of endocrine and autonomic function. This research evolved to study of the processing of excitatory stimuli to the neurons that contain luteinizing hormone releasing hormone (LHRH or gonadotropin releasing hormone, GnRH) and trigger ovulation and their mediation by ovarian steroids. A separate, although related direction in her laboratory focuses on the consequences of ovarian steroids on the injured brain. These studies examine the role that ovarian hormones play in seizure-induced brain damage, secondary damage following head trauma, and neuronal damage induced by the CNS inflammatory disease experimental allergic encephalitis. Amalgamation of injury projects with studies of autonomic regulation addressing the question of how brain circuits controlling food intake and metabolism change under conditions of chronic REM sleep deprivation. In addition, recent projects focus on how neurons of the accessory motor systems are affected by the premutation of the Fragile X gene.



ICHC 2008

The ICHC 2008
13th International Congress
of
Histochemistry & Cytochemistry

*Imaging of
Cell Dynamics*

23 August - 27 August

Medical University of Gdansk
Gdansk, Poland



The International Federation of Societies for Histochemistry and Cytochemistry will hold its quadrennial meeting ICHC2008: "Imaging of Cell Dynamics" in Gdansk Poland, August 23 – 27, 2008. Visit the Congress web site <http://www.ichc2008.org> and take a look at the Program.

The Histochemical Society feature prominently in the program as several Symposia and workshops are chaired by HCS members.

The site for the meeting, Gdansk (www.gdansk.pl) is located on the Baltic Sea coast in the northern part of Poland. The city is renowned for its 1000 year-long history, picturesque Old Town and beautiful surroundings with many lakes and hills. A new era in Poland's history started in Gdansk in 1980 with the establishment of the "Solidarity" movement under the leadership of Lech Walesa. Early registration and abstract submission are still open.



Journal of Histochemistry and Cytochemistry

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