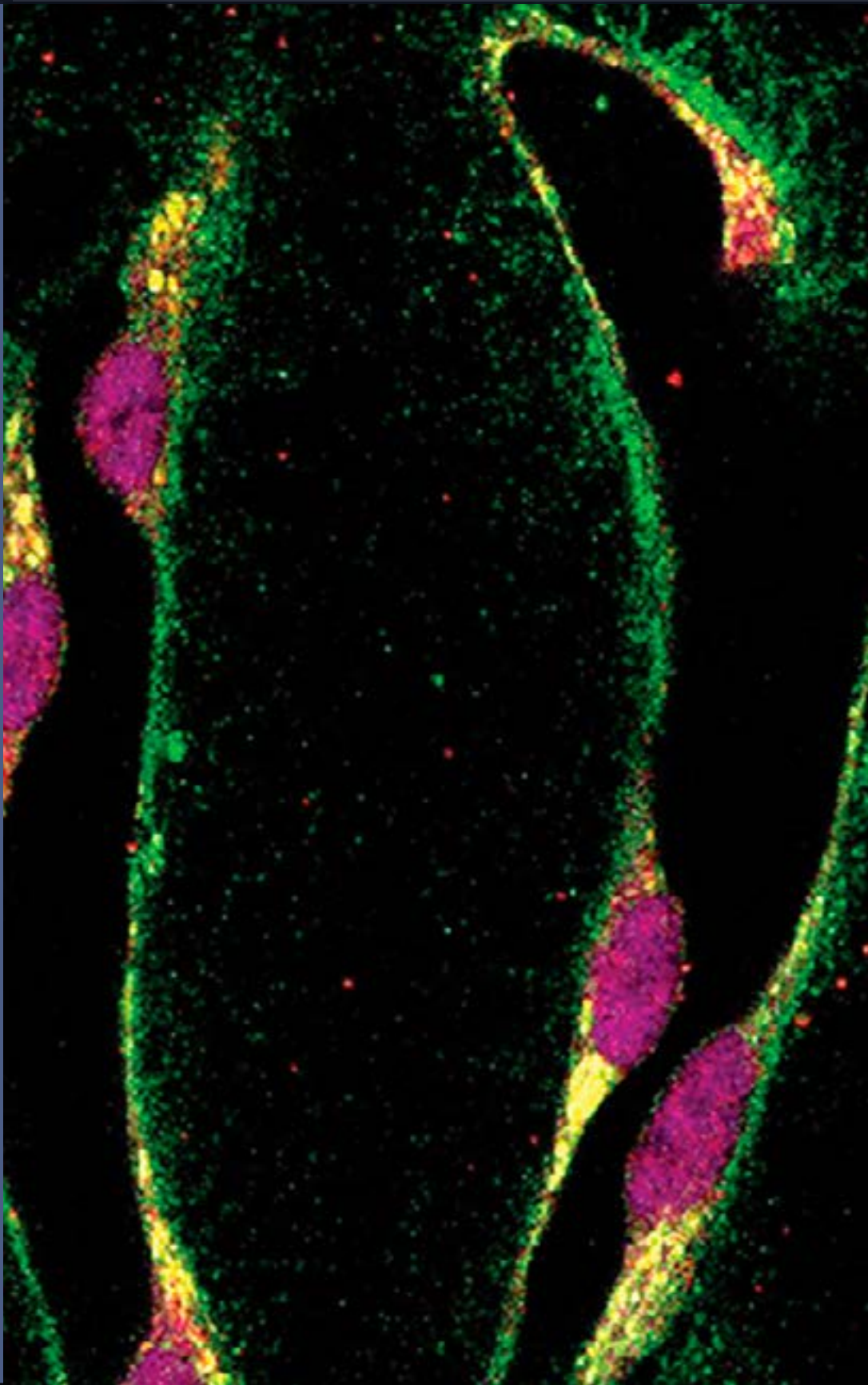




The Histochemical Society NEWSLETTER

March 2014

Vol. 27 No. 1



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**ADAMTS-4 Proteinase and Biglycan
in Endothelial Tubulogenesis**
M. Obika et al., JHC 62: 34-49, 2014.

A Letter to HCS Members....



Dear HCS Members,

I would like to take this opportunity to bring everyone up to date on the activities planned for The Histochemical Society's 65th annual meeting. HCS 2014 will be held in San Diego, California at the San Diego Convention Center in association with the Experimental Biology 2014 (EB2014) and the American Society for Investigative Pathology (ASIP) annual meeting, April 26-30, 2014. Information about EB2014 and details on registration and local hotels can be found at:

www.asip.org/meetings/2014/index.cfm

The HCS annual meeting will officially start on Sunday morning, April 27 with a symposium entitled, "**Advanced Imaging Techniques and Systems for Live Cell Microscopy.**" Following this symposium, **Dorit Hanein, Ph.D.**, of the Sanford-Burnham Medical Research Institute in La Jolla, California has been invited to give the JHC Lecture, which is entitled "Structural Basis of Force Transmission During Directed Cell Migration,

One Assembly at a Time." In the afternoon the HCS will host the symposium entitled "**Unlocking New Tools for Experimental Pathology: Advances in Immunohistochemistry and In Situ Hybridization.**" Further details about the HCS/ASIP symposia are found in this newsletter.

In addition to the symposia and plenary lecture, The Histochemical Society (HCS) would like to invite you to two other events that we have planned during EB2014. Please plan to attend our annual Business Meeting and Awards Ceremony on Sunday, April 27th from 6 – 8 pm in the Santa Rosa Room of the Marriott Marquis & Marina Hotel. The ten HCS travel awardees will be presenting at the business meeting. Please come and enjoy hors d'oeuvres and beverages. An important goal of this event is to give HCS members the opportunity to reconnect with old friends and meet new aspiring histochemists.

The second HCS event will highlight the **Immunohistochemistry & Microscopy Scientific Interest Group (IHCM SIG)**, which we have developed in collaboration with ASIP. The mission of the IHCM SIG is to promote high quality immunohistochemistry and the development of new assays that take advantage of new reagents and techniques, state-of-the-art imaging systems and image analysis. The IHCM SIG is a way for HCS to both provide a forum for our members and the broader scientific community and promote the advancement of immunohistochemistry and histochemical techniques in research. The objectives of the IHCM SIG are to:

1. Provide a forum for discussion concerning the application of immunohistochemistry in biomedical science.
2. Disseminate guidance to the community on development of specific and robust chromogen- and fluorescent-based immunohistochemical assays.
3. Promote new approaches and applications of immunohistochemistry.
4. Provide a venue of exchange to address challenges researchers encounter in immunohistochemistry.
5. Provide a forum for discussion on advances in microscopy, imaging, image analysis and quantitative microscopy.

The HCS is participating in the ASIP Scientific Interest Groups (SIGs) networking event on Tuesday, April 29th from 5:30 – 7:30 pm in Marina Ballroom E of the San Diego Marriott Marquis and Marina Hotel. We welcome your attendance at the SIG networking event to help support the HCS IHCM SIG. Additional information about the IHCM SIG can be found on ASIP's website (<http://www.asip.org/SIGs/IHM/index.cfm>).

While at EB2014 make sure you stop by the HCS and JHC booth, #1118 in the Exhibition Hall. This is a great place to check in and see what is new with the Journal and get questions answered about your membership

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A Letter to HCS Members *cont....*

and changes to HCS. Additionally, JHC will be hosting informational mini-workshops on publishing in conjunction with our publisher SAGE Publications. We will be sending out further information prior to the meeting. We look forward to seeing you in April of 2014.

Chuck Frevert

President, HCS



HCS Election of Officers

As an HCS member, you should have recently received an “Election of Officers” notice via email. Please take a moment to log in to your HCS account and vote. Officers of HCS give their time freely to improving the Society through developing our meeting program, our meritorious awards, our IHCM course and last but certainly not least the JHC. Your vote is important and is one crucial way for you to make your voice heard and also acknowledge the work HCS officers do for all of us.

A little help and hint for logging in to your HCS account, your “User name” is the initial of your first name and your last name spelled out, all one word, and all in lower case letters. If you do not know your “Password,” just click on Forgotten password and it will be sent to you. **Do it now, please VOTE.**



HCS Member Renewal

It's time to renew your membership in HCS. The longer you wait the more you miss in terms of your subscription to JHC, discounts on meeting registration, and keeping up with your friends and colleagues in the Society. So don't delay any longer. **Log in today to your HCS account and renew for 2014.** Your Society needs you!

IMPORTANT DATES

March 21, 2014:

EB2014 Housing Deadline

April 27, 2014:

HCS Scientific Sessions including HCS Plenary Lecture (Convention Center)

April 27, 2014 6-8 PM:

HCS Reception, student presentations and Business Meeting (Marriott Hotel)

April 29, 2014 5:30-7:30 PM:

Immunohistochemistry & Microscopy Special Interest Group (Marriott Hotel)

HISTOCHEMISTRY 2014

The Histochemical Society Annual Meeting

April 26 - 30, 2014

San Diego, California

Meeting as a guest society of the American Society for Investigative Pathology
at Experimental Biology 2014

The Histochemical Society Scientific Program

Sunday, April 27, 2014

San Diego Convention Center, 16A

8:30 -10:30 AM

ADVANCED IMAGING TECHNIQUES AND SYSTEMS FOR LIVE CELL MICROSCOPY SYMPOSIUM

Chaired by: **Eduardo Rosa-Molinar**, University of Puerto Rico and **Paul Goodwin**, Applied Precision, A GE Health Care Company

Sharper and Faster: New 4D Imaging Technologies for Use in Biology

Hari Shroff, National Institute of Biomedical Imaging, National Institute of Health

Developments in Zernike Phase Contrast Technologies When Applied to Cryo-Electron Tomography Studies of Bacteria

Elizabeth R. Wright, The Robert P. Apkarian Integrated EM Core and Department of Pediatrics, Emory University School of Medicine

Advances in High-Resolution Imaging of Complex Biological Systems

Scott Fraser, University of Southern California, Los Angeles, California

10:30 to 11:30 AM

JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY PLENARY LECTURE

Chaired by **John Couchman**, University of Copenhagen

Structural Basis of Force Transmission During Direct Cell Migration, One Assembly at a Time

Dorit Hanein, Sanford-Burnham Medical Research Institute, La Jolla, California

For more information about Dr. Hanein's research please view the Youtube video at:

<http://www.youtube.com/watch?v=ZBkaoE6CrpA>

2:00 to 5:00 PM

UNLOCKING NEW TOOLS FOR EXPERIMENTAL PATHOLOGY:

ADVANCES IN IMMUNOHISTOCHEMISTRY AND IN SITU HYBRIDIZATION

Chaired by: **Charles Frevert**, University of Washington and **Stephen Hewitt**, National Cancer Institute, National Institute of Health

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Exploration of the Human Proteome Using Antibody-Based Proteomics - Updates on the Human Protein Atlas

Fredrik Ponten, Uppsala University, Uppsala, Sweden

Unlocking the Relationships Between Genes, the Brain, Behavior and Disease: Updates from the Allen Institute for Brain Science

Amy Bernard, Allen Institute for Brain Science, Seattle, Washington

Synapse Discrimination and Classification by Array Tomography: The Synaptome meets the Connectome

Stephen J. Smith, Stanford University, Stanford, California

Highly Multiplexed Immunohistochemistry on Individual Cells in Tissues: The Example of Hodgkin Lymphoma

Lawrence M. Weiss, Clariant Diagnostic Services, Inc., Aliso Viejo, CA

The Histochemical Society Awards Presentation and Business Meeting

Sunday, April 27, 2014

Santa Rosa Room, The San Diego Marriott Marquis and Marina

6:00 - 8:00 PM

Chaired by: **Charles Frevert**, University of Washington and **William L. Stahl**, University of Washington

The Histochemical Society invites all members and their guests to join us at our annual social event. HCS officers will update us on the health of the Society and its ongoing initiatives. There will be an update on the JHC from Editor-in-Chief, John Couchman. We will hold our annual HCS student presentations and celebrate all HCS meritorious awardees. Refreshments will be served and there will be ample time to catch up with colleagues and friends. **Save the Date!**

American Society for Investigative Pathology Scientific Interest Groups

IMMUNOHISTOCHEMISTRY and MICROSCOPY

Tuesday, April 29, 2014

Marina Ballroom E, San Diego Marriott Marquis and Marina

5:30 - 7:30 PM

Chaired by: **Charles W. Frevert**, University of Washington and **Stephen M. Hewitt**, National Cancer Institute, National Institute of Health

ASIP Scientific Interest Group Poster Sessions will be held at the same time in the same location. Select posters from each Scientific Interest Group will be on display for informal discussions

Carmichael Receives Mayo Award



Dr. Stephen Carmichael and wife, Susan Stoddard at private award dinner at Mayo Foundation House.

He was awarded a National Institutes of Health Trainee Fellowship at Tulane University in New Orleans, where he earned a Ph.D. in Anatomy in 1971.

Dr. Carmichael retired from Mayo in 2007. He was a member of the Mayo Clinic Voting Staff for 25 years and recently completed a term as Chair of the Executive Committee of the Emeritus Staff. He was Chair of the Department of Anatomy from 1991 to 2005. Beginning in 1997, he had a joint appointment in the Department of Orthopedic Surgery. He joined the Mayo Clinic staff in 1982 after serving as an Associate Professor at West Virginia University.

Dr. Carmichael has been an enthusiastic supporter of young medical students and clinical anatomists. He taught Gross Anatomy for 25 classes of Mayo Medical students and developed de novo Microscopic Anatomy and Developmental Anatomy courses.

He also was involved in pioneering work transplanting the autologous adrenal medulla into the brain of patients with Parkinson's disease.

His research career includes investigating the basic mechanisms of catecholamine synthesis and secretion. He also was involved in pioneering work transplanting the autologous adrenal medulla into the brain of patients with Parkinson's disease. He has published more than 100 laboratory research papers in peer-reviewed journals, several reviews on the adrenal medulla, and authored or co-authored six books in English and one in the Thai language on the subject. Dr. Carmichael was Past President of The Histochemical Society, and the Association of Anatomy, Cell Biology and Neuroscience Chairpersons, and has been a member of the American Association of Anatomists since 1968.

Dr. Stephen Carmichael, member of the Board of Governors of St. Helen University School of Medicine and Health Sciences, St. Lucia, and visiting Professor of Anatomy receives prestigious award from Mayo Clinic.

Stephen Carmichael, Ph.D., D.Sc., was named the recipient of the 2013 Mayo Clinic Distinguished Alumnus Award. The award honors individuals who exemplify Mayo Clinic's ideals and mission. Dr. Carmichael was recognized at a private black-tie dinner at the Mayo Foundation House in Rochester on Oct. 21.

He is Professor Emeritus of Anatomy and Orthopedic Surgery at Mayo Clinic in Rochester, MN. He is a prominent leader in the field of having developed and taught innovative anatomy curriculum at Mayo Medical School, conducted research, published extensively and participated in developments in treating Parkinson's disease.

Dr. Carmichael was born in Detroit and graduated from Thomas Downey High School in Modesto, Calif., in 1963. He received a degree in biology (with honors) from Kenyon College in Gambier, Ohio, in 1967, and received a Doctor of Science honoris causa in 1989.

Coming Soon to Your Smart Phone - A New Way to Access JHC!



The Histochemical Society's flagship publication, the *Journal of Histochemistry & Cytochemistry*, will introduce a free mobile app in the second quarter of 2014. The app will work with iPhone and Android phones as well as iPads and Android tablets, and will be available on the iTunes App Store. It

will allow all readers free access to each month's table of contents and abstracts. All HCS members and JHC subscribers will also have complete access to full text articles in both full-text and PDF view.

The app will support existing institutional subscriptions through automatic IP authentication. Institutional subscribers will also have off-campus access via the mobile voucher service. Users can apply a voucher and, when off-campus, still have access to their institutional subscription. HCS members will be able to use their individual login from their online account and authenticate their subscription to have unlimited access to the app at any time. JHC individual subscribers will also be able to use their individual login and authenticate their subscription for unlimited access to the app at any time.

Users will be able to browse and access articles in both full-text and PDF view. It will allow quick access to abstracts and full-text articles, including publish ahead of print. You will be able to email article links, and flag or highlight your favorite articles for later reference. Previously accessed articles can be accessed for off-line viewing. And the app will include a table and figure viewer. Users will be able to move seamlessly from one article to another through internal navigation and hyperlinks. As development continues, we will update JHC subscribers with further information.

Visit the HCS Facebook Page

All HCS members may post to our Facebook page. So, please visit the page, like it and share with us what you are doing in your lab. Are you coming to the annual meeting? Do you have questions or issues regarding the Society or the *Journal of Histochemistry & Cytochemistry*? Feel free to post any interesting images (must be jpeg format) that you might want to share with colleagues.

The HCS Facebook is located at: <https://www.facebook.com/histochem>

Vincent H. Gattone II, Ph.D., 1951-2014

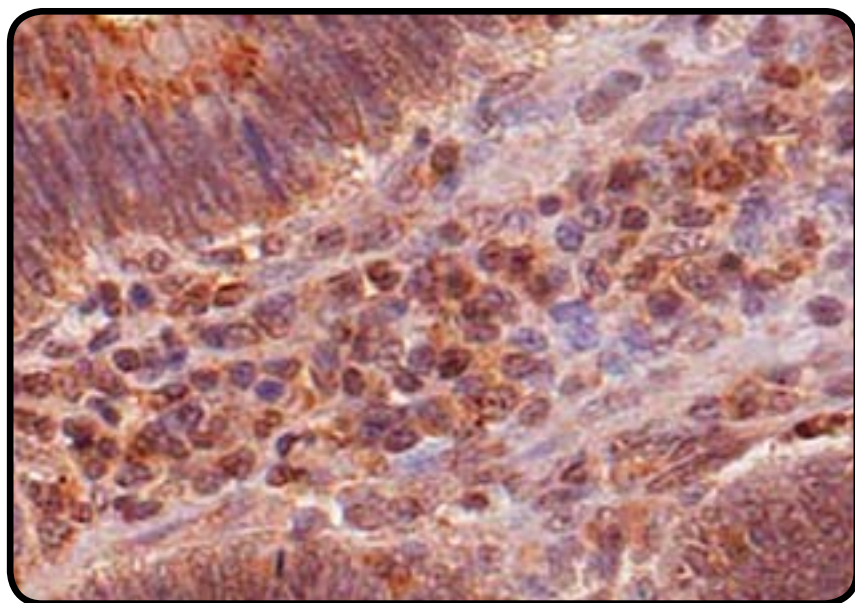


In discussing the award Vincent said, "I am deeply honored and humbled by receiving this award from the polycystic kidney disease research community in recognition of decades of work leading to treatments for this disease." His lab studied cellular and molecular pathogenesis of various renal diseases including polycystic kidney disease (PKD) and other chronic kidney diseases. In particular, he worked with the development of animal models of polycystic kidney disease and in pre-clinical research demonstrating the efficacy of tolvaptan to retard cyst progression.

Vincent Gattone earned a BS in Chemistry from Ursinus College, a MS in Anatomic Pathology from George Washington University, and a Ph.D. in Medical Sciences from the Medical College of Ohio. Gattone was an Assistant Professor at the Hershey Medical Center, Pennsylvania State University from 1983-1986 and Assistant through Full Professor at University of Kansas Medical Center from 1986-2000.

We regret to announce the death of Histochemical Society Councilor and past Publications Chair Vincent H. Gattone II on January 27, 2014. Vincent was a Professor of Anatomy and Cell Biology, and Adjunct Professor of Nephrology at Indiana University School of Medicine. He was also Director of the Electron Microscopy Center at Indiana University in Indianapolis. In 2013, he was a joint recipient of the Lillian Jean Kaplan Prize International Prize for the Advancement in the Understanding of Polycystic Kidney Disease by the International Society of Nephrology.

Dr. Gattone bravely shared his personal story of being given an incurable diagnosis and how he dealt with that process in an IU Medical Grand Rounds. An archived version of that memorable presentation "When a Poor Prognosis is Your Own: A Medical Professor's Journey," is available on the IUSM Mediasite.



S.V. Prabhu et al., JHC 59: 328-335, 2011
Extra-Lysosomal Localization of Arylsulfatase B...

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