

The*Bulletin***Highlights:**

- **2005 Meritorious Award Winners**
- **Annual Meeting Program highlights**
- **New Members**
- **Introducing ArticleWorks for AJP & JMD**

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President's Message*Nelson Fausto*

When asked to point out the main challenge facing ASIP, not only for the President and the Executive Officer but extending to all of the membership, I reply that our main task is to give ASIP a clear identity and a reason to exist at a time of sweeping changes in research, publishing and education. The term “investigative pathology” means many things to different people and with the tremendous growth of translational research in all areas of medicine, one does not need to be a pathologist to be involved in this type of research. Nevertheless, the main goal of investigative pathology is the study of the mechanisms of disease, and ASIP is the only society dedicated to this goal. Thus, our identity is defined by our involvement in activities that enhance the understanding of disease pathogenesis. These include, most importantly, the discussion and diffusion of the latest scientific knowledge through meetings and publications, and educational activities such as training seminars and courses.

In my opinion the annual meeting (including education and mentoring perspectives), the publication of *The American Journal of Pathology* and *The Journal of Molecular Diagnostics*, and the planned summer course on Mechanisms of Disease are all excellent programs sponsored by ASIP. Our task would be greatly simplified if it were enough to have a strong program at the annual meeting. By and large, we have already accomplished that, thanks to the dedication of Martha Furie, the current

Program Committee Chair, and her predecessors. The scheduled symposia and sessions cover exciting areas of research, and I for one, feel honored to Chair the President's Symposium. But we still have a long way to go to make the meeting become a well-attended forum for the exchange of ideas and lively debate. We need everybody's help to achieve this goal. This is not an activity that can be mandated from ASIP officers, but one that requires the involvement and enthusiasm of the great majority of members of ASIP. Through these efforts, the meeting can become a focal point for scientists, students and trainees interested in disease pathogenesis, and attract the attention of a broader segment of the scientific community. A very promising development in this direction has been the increasing number of guest societies sponsored by ASIP. We also look forward to having joint meetings with the American Association of Neuropathologists in the near future, and to share activities with the vascular biology group (NAVBO). The participation at the annual meeting of guest societies such as these greatly enriches our scientific offerings.

Regarding educational activities, we have completed the plans for the offering of a summer course in Mechanisms of Disease. I would like to thank Abul Abbas for conceiving of this course and also to Richard Mitchell, who together with Abul, put together the lecture schedule. Tara Snethen at the ASIP

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From the Executive Officer's Desk

Mark E. Sobel

ASIP Annual Meeting at Experimental Biology 2005 in San Diego April 1-6. As we go to press with this newsletter, we are only four weeks away from the Annual Meeting. See the meeting highlights on page 11. Although the ASIP scientific program officially starts on Saturday, April 2, the Directors of Pathology Graduate Programs will meet the day before, and the physiologists will have a full day of scientific sessions on Friday, April 1. The ASIP Office will be in the Marriott Waterfront Hotel next door to the Convention Center should you need assistance during the meeting.

There are some indications that representatives of animal rights groups may demonstrate in front of the San Diego Convention Center. As a precaution, the planners have added extra security. As an attendee, you are advised to remove your meeting badge when outside the Convention Center to avoid confrontations with any demonstrators.

In recent years, the ASIP Awards Ceremony on Monday following the President's Symposium has become the place to see friends and colleagues and to meet new people. This year we promise to continue the tradition of offering libations and delectable treats to enhance your enjoyment and participation in this fun

event. I hope to see you there.

Dr. Audra Cox joins the Journal Editorial Office.

I am pleased to announce the appointment of Dr. Audra Cox as Scientific Editor of *The American Journal of Pathology* (AJP) and *The Journal of Molecular Diagnostics* (JMD). After receiving her Ph.D. in molecular virology, Audra went on to become a science writer. Since November, she has been working with Jay McDonald and Gene Siegal (AJP Editor-in-Chief and Senior Associate Editor) as well as with Karen Kaul (JMD Editor-in-Chief) to enhance the writing of review articles and to improve informative content of abstracts of accepted manuscripts.



New Member-Only area of the ASIP Website. By the time you receive this *Bulletin*, ASIP will have launched its new password-protected member-only area of the website at www.asip.org. Soon, you will be receiving an email reminding you of your ASIP member ID number and your password which you may use to access this new protected area. In addition, members who have

(President's Message, continued from page 1)

office did a superb job in surveying potential sites for the course, finally selecting an attractive venue in San Diego. I have great expectations for this course, and hope that in a few years it will become one of ASIP's signature offerings. Other educational activities sponsored by ASIP continue to be developed and presented thanks to William Coleman's dedication to educational issues.

Looking at the research environment beyond ASIP, the tremendous enthusiasm and optimism about new discoveries and advancements is now coupled with great concern about NIH research funding for the coming years. This is the time at which research dollars are needed to support exciting scientific developments with potentially important clinical applications, and yet, the proposed 0.7% increase in the NIH budget not only is inadequate to support growth, but also is not even sufficient to maintain the present level of research activities. FASEB must have an active role in dealing with this issue. After all, public affairs, has become the

main business of FASEB during the last few years. At the annual meeting in San Diego, the ASIP Council will meet with FASEB's president. We plan to use this opportunity both to express our concerns about research funding, but also to learn about and evaluate FASEB's activities in this arena.

On another issue of importance, the NIH has just published its long-awaited guidelines regarding access to publications. This subject is of great interest to us as scientists and authors, and also as it relates to the stability of the society journals. The Council will also discuss this issue, and your ideas on this and other topics are highly appreciated.

Finally, I wish to extend a personal invitation to all of you to attend the business meeting and awards presentation at the annual meeting, which is followed by a nice buffet service. This is a great occasion to welcome new friends, and for old friends to enjoy some time together. I look forward to seeing you in San Diego.

renewed their 2005 annual membership dues will be receiving an ASIP member card in the mail in April with that information. The member-only area will contain a **hotlink to the online archive and most current issues of *AJP* and *JMD***. Once you get through the ASIP firewall to enter the member-only area, you will not need to enter another password to gain access to the online journals. This will be particularly useful to you when you are traveling and cannot access the journals through your institutional link. Another advantage of this link to the online journals is that the ASIP office will know your password and can assist you if you have misplaced your information so that you can gain entry to the journals without delay. In addition to the pass-through access to the journals, the member-only area will feature a **searchable ASIP member directory**. The member directory, which is nearing completion, will provide you with the ability to search for an ASIP member by institution, city, state, last name, scientific interest group or member type (regular, trainee, emeritus, associate, or affiliate member of the Association for Pathology Informatics). Of course, you may also access the FASEB member directory at www.faseb.org to find ASIP members as well as members of FASEB's other constituent societies.

New Pathology Informatics Fellowship. The Association for Pathology Informatics, a Division of ASIP, announces a new fellowship, funded by IMPAC, for residents in pathology to enhance their knowledge of pathology informatics, especially as it relates to oncology research. This new fellowship will be administered by the CAP Foundation and the ASIP office. The deadline for applications is **June 1, 2005**. For more information, see the API website at www.pathologyinformatics.org or contact CAPFdn@cap.org.

Job Opportunities on the ASIP website. ASIP has expanded its career opportunities and job listings on the website at www.asip.org. Please take a look at this free service. Job listings are organized by whether they are research-oriented or include clinical responsibilities, and are categorized by tenure status and academic rank. In addition, there are listings for jobs in industry, technologists, and specialty areas such as informatics, epidemiology, and molecular diagnostics.

Join the ASIP Pathology Leadership Fund. Last year, the ASIP Council established the Pathology Leadership Fund to promote educational and mentoring programs. Charter sponsors of the Fund are listed in the

box below. Please consider joining the Pathology Leadership Fund, which offers you the opportunity to fund specific programs or to even establish an endowed lectureship in your name or in the name of a respected colleague or loved one. As a 501(c)(3) nonprofit educational organization, contributions to ASIP and to the Pathology Leadership Fund are tax deductible on your United States Federal tax return.

Enhanced Public Access to Manuscripts based on NIH-funded Research. In February, the NIH announced a rule concerning the deposition of manuscripts based on NIH-funded research in Pub Med Central. The ASIP is developing a policy to assist authors of *AJP*- and *JMD*-accepted manuscripts to be in compliance with both our copyright obligations as publisher and the NIH recommendations. The policy will be posted on the ASIP and journal websites once it has been approved by the ASIP Council and authors will receive instructions with their letters of acceptance beginning in May.

ASIP Staff Celebrate Longevity Anniversaries. In February, I had the pleasure of hosting a ceremony to recognize *AJP* Assistant Editors Henry Carter and Michael Dustin for their five years of service to the ASIP Editorial Office. In addition, Ruth Sullivan, ASIP's administrative assistant, was recognized for more than five years of service. Maricel Herrera, who has primarily worked for ASIP's sister society the Association for Molecular Pathology, was recognized for her tenth year anniversary, and Bernadette Englert was honored for fifteen (fifteen !!!!) years of dedicated service. Along with the other members of the ASIP office, I deeply value these individuals' contributions.



A special thank you to the Charter Sponsors of the Pathology Leadership Fund for their contributions, dedication and commitment to the society.

Gold Sponsors:

Carl G. Becker Susan M. Koethe Mark E. Sobel

Silver Sponsors:

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2005 Gold-Headed Cane Recipient—Henry Pitot



Dr. Henry Pitot, Professor Emeritus of Oncology and of Pathology and Laboratory Medicine at the University of Wisconsin, has been named the recipient of ASIP's Gold-Headed Cane Award. Dr. Pitot's career has benefited society and has enriched pathology in many ways, including research, teaching, and administration.

The Gold-Headed Cane Award is the highest honor bestowed upon a member of ASIP. It is given in recognition of long-term contributions to pathology, including meritorious research, outstanding teaching, and general excellence in the field.

Dr. Pitot has been productive as an international figure in cancer research, especially in the field of liver carcinogenesis. His early pioneering research on the enzyme induction and protein synthesis in transplantable liver tumors laid the foundation for future studies on molecular differences and heterogeneity of neoplasms.

He demonstrated that not only tumor promotion but tumor progression is highly important in the evolution of cancer. His work prompted the Environmental Protection Agency to challenge cancer researchers to design assays for the detection of promoters and tumor progressors. In response to that challenge, he developed the liver cancer bioassay in which substances causing cancer could be examined. This assay is the foundation of many regulatory policy decisions affecting use of substances throughout the chemical industry and it has made a huge impact on our modern society in its efforts to protect our environment and minimize the exposure of toxic substances to human populations.

"Dr. Pitot also made fundamental contributions to our understanding of carbohydrate metabolism and perturbations in this metabolism in tumors," said Dr. Janardan Reddy, Magerstadt Professor and Chairman, Department of Pathology at Northwestern University Medical School.

His current work on liver cancer has focused on identifying the genetic changes associated with tumor progression and he has recently published several pioneering studies on chromosomal changes associated with liver cancer.

Dr. Pitot has been a major contributor in academic pathology being a faculty member at the University of Wisconsin for more than 40 years. He was chairman of the Department of Pathology at the University of Wisconsin from 1968-1971. He became Acting Dean of the University of Wisconsin School of Medicine in 1971 and held that position through 1973. In 1973, he became Director of the McArdle Laboratory for Cancer Research through 1991.

During his tenure at McArdle, the institution grew to a powerhouse of research in cell and molecular biology with an outstanding faculty. Also during this time, Dr. Pitot used this opportunity to convert the laboratory to a training ground for experimental pathologists. More than 20 pathologists were trained in experimental cancer biology under his tutelage.

Dr. Pitot has been a valued mentor to many scientists. More than 100 people holding faculty positions in research institutions and universities throughout the world have received training research in his laboratory. The Pitot alumni have a deep respect for him as a human being and that respect has continued to increase throughout the years.

For many years Dr. Pitot has been at the forefront of advisory committees of national importance. He was a member (1976-1979) and then chairman (1979-1982) of the President's National Cancer Advisory Board. He served as a member of numerous advisory boards with the EPA and NIEHS. He was also the co-President of the American Association of Pathologists (the forerunner of ASIP) from 1976-1977 and the President of the Society for Experimental Biology and Medicine (1992-1993).

His research and contributions to society were recognized with many honors, including the Distinguished Service Award from the Cancer Society, the Parke-Davis Award for Research in Experimental Pathology and the Nobel Foundation Research Recognition Award.

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Rous-Whipple Award Presented to John Q. Trojanowski

Dr. John Trojanowski, M.D., Ph.D., Professor, Department of Pathology and Laboratory Medicine at the University of Pennsylvania School of Medicine, is the recipient of the 2005 Rous-Whipple Award. The Rous-Whipple Award is given to a pathologist age 50 or older with a distinguished career in research and continued productivity.

Dr. Trojanowski has conducted research at the University of Pennsylvania School of Medicine for more than 15 years and made seminal contributions to the understanding of neurodegenerative diseases, such as Parkinson's disease and Alzheimer's disease, that have proven to be of fundamental importance. He has melded together neuropathology with biochemistry and molecular techniques to understand the basis of neurodegenerative diseases.

"Neurodegenerative diseases such as Parkinson's disease and Alzheimer's Disease are major public health problems and will increase in importance as the population ages," said Dr. Robert Doms, M.D., Ph.D., Chair, Department of Microbiology, University of Pennsylvania School of Medicine.

Dr. Trojanowski has published more than 450 papers and received numerous awards including the Potamkin Prize for Medical Research in Alzheimer's disease, the Pioneer Award from the Alzheimer's Association, and

membership in the Institute of Medicine of the National Academy of Science.

He has also participated on numerous scientific committees, including Killam Research Fellowship Program from The Canada Council; National Cancer Institute, CNS Oncology Working Group; The Institute for the Study on Aging, Scientific Advisory Board; and The Institute for the Study of Aging, Scientific Advisory Board.

Dr. Trojanowski received his B.A. from King's College, and M.D. and Ph.D. from Tuft's University.

Dr. Trojanowski will receive the Rous-Whipple Award at ASIP's Annual Meeting at Experimental Biology 2005 in San Diego and will present a lecture on April 4 entitled "The Alzheimer brain: finding out what's broken tells us how to fix it."



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"Since 1954, Dr. Pitot has published over 400 papers in peer-reviewed journals with the subject of most on oncogenesis and many on hepatic oncogenesis," said Dr. Michael Hart, Professor and Chair, Department of Pathology and Laboratory Medicine at the University of Wisconsin. "His research is always on the cutting edge, is acknowledged around the world as among the very best in hepatic oncogenesis, and [he] is universally identified as a pathologist par excellence."

In addition to his many accomplishments, Dr. Pitot authored "Fundamentals of Oncology," the definitive graduate school textbook for cancer biology. This book is used in most of the cancer biology classes throughout the world and has shaped the understanding of new re-

searchers for cancer behavior, biology, genetics, and treatment.

Dr. Pitot received his B.S. in Chemistry from the Virginia Military Institute, and M.D. and Ph.D. from Tulane University.

Dr. Pitot will receive the Gold-Headed Cane, a mahogany cane topped with a 14 karat gold head and engraved band, at ASIP's annual meeting at Experimental Biology 2005 in San Diego.

Chugai Award to be presented to Peter Ward



ASIP lauds Dr. Peter Ward, M.D., Professor and Chairman, Department of Pathology, University of Michigan, with the 2005 Chugai Award for Excellence in Mentoring and Scholarship. He is a distinguished scientist recognized internationally as one of the leaders in inflammation and immunopathology research and has

provided mentoring to numerous residents, post-doctoral fellows, graduate students, and junior faculty in his role of principal investigator of NIH training grants and chair of two departments of Pathology since 1973.

This award, generously funded by Chugai Pharmaceutical Co, Ltd., is presented to a member of ASIP with a distinguished career that especially links excellence in mentoring and education with outstanding research achievements in experimental and investigative pathology.

Dr. Ward was previously awarded the three most prestigious awards from ASIP. He received the Park-Davis (now the Amgen Award) in 1971, the Rous-Whipple Award in 1996, and the Gold-Headed Cane Award in 2001. He is the only individual in the history of the society to be honored with all four major ASIP awards.

Dr. Ward's earliest studies established motility responses of neutrophilic leukocytes were linked to activation products of the fifth component of the complement cascade. The initial studies have had a substantial impact in the scientific arena, resulting in many investigators applying similar scientific approaches to study leukocyte biology.

"He was one of the first scientists to describe a chemotactic defect in a human with recurrent bacterial infections, thus providing the precedent for the subsequent recognition of a large and diverse array of clinical disorders involving motility defects in leukocytes," said Dr. Steven Kunkel, Ph.D., Endowed Professor in Pathology Research, The University of Michigan.

Dr. Ward's mentoring activities have spanned 30 years at the University of Connecticut and the University of Michigan. At the University of Connecticut, he played an active role in launching the careers of academic scientists with a focus on pathology research; those scientists currently hold full professor status at leading academic institutions. During his tenure at Michigan, Dr. Ward has continued his mentoring by guiding more than 30 students. Many previous trainees are now faculty at institutions including, among others, University of Nebraska; Loyola School of Medicine; University of Hanover Medical Center, Hanover, Germany; and University of Zurich Hospital, Zurich, Switzerland.

In addition to his research contributions, Dr. Ward has been a national leader and champion for pathology education and advancing the specialty of pathology. He has served in a variety of roles in every major pathology organization including the Residency Review Committee for Pathology of the ACGME (1989-1995), American Board of Pathology (1996), President of ASIP (1979-1980) and President of the United States and Canadian Academy of Pathology (1992-1993).

"Many of his former trainees are currently appointed to the faculty of medical schools and research institutes both in the United States and internationally," said Dr. Joseph Fantone, M.D., Director, Anatomic Pathology at the University of Michigan. "He is a strong and collegial leader and a person of high integrity who serves as an outstanding role model for his trainees and junior faculty in academic pathology."

In addition to the recognition from ASIP, Dr. Ward has received numerous honors, including the Distinguished Service Award, Association of Pathology Chairs; Fellow, American Association for the Advancement of Science; and election to the United States Academy of Sciences Institute of Medicine.

Dr. Ward received his B.S. from University of Michigan, College of Literature, Science and the Arts and his M.D. from University of Michigan Medical School.

Dr. Ward will receive the Chugai award at ASIP's Annual Meeting in San Diego and on April 4th, he will present The Chugai Award Lecture and chair the Symposium for Young Investigators.

Amgen Outstanding Investigator Award—Arul Chinnaiyan

ASIP honors Dr. Arul Chinnaiyan, Assistant Professor of Pathology and Urology, University of Michigan, with the 2005 Amgen Outstanding Investigator Award. The award is presented to an ASIP member under the age of 43 for meritorious research in experimental pathology.

Dr. Chinnaiyan has had a spectacular career to date in his research pursuits, including while in the Medical Scientist Training Program (MSTP), as a house officer in Clinical Pathology, and during his academic career as an Assistant Professor. He has made seminal contributions to the understanding of apoptosis.

“Currently, Dr. Chinnaiyan is focused on using DNA, tissue, and microarrays to molecularly dissect prostate cancer,” said Dr. Peter Ward, Professor and Chairman, University of Michigan. “He is looking to define a molecular classification for this disease that will be of use in the clinical practice.”

After success as an MSTP student, Dr. Chinnaiyan was eager to develop an independent research program. Instead of building on his previous work investigating the molecular and cell biology of apoptosis, he decided to take a risk and delve into the functional genomics of human disease. After establishing a laboratory, he made a major impact on the characteristics of prostate cancer gene expression profiles and biomarkers.

His laboratory has been awarded support from a variety of agencies including NIH/NCI, American Cancer Society, and the Department of Defense. He is nationally recognized in the field of prostate cancer genomics/proteomics and has given more than 40

lectures. Dr. Chinnaiyan also directs the Tissue/Informatics Core for the Michigan Prostate Specialized Program of Research Excellence (S.P.O.R.E.) as well as the Pathology Microarray Lab.

With more than 50 published manuscripts in peer-reviewed journals, including *Nature*, *Cancer Research* and *The American Journal of Pathology*, Dr. Chinnaiyan has been designated as a Pew Biomedical Scholar.



“Arul is the best scientist I have had the pleasure of being closely associated with in my past 20 years in biomedical research,” said Vishva Dixit, M.D., Senior Director, Molecular Oncology Department, Genentech, Inc. “His high moral character combined with his outstanding academic achievement made working together a real pleasure.”

Dr. Chinnaiyan received his B.A. in Cellular and Molecular Biology, and his M.D. and Ph.D. through the MSTP program from the University of Michigan.

Dr. Chinnaiyan will receive this award at ASIP’s Annual Meeting at Experimental Biology 2005 in San Diego and present the paper, “The future of pathology: genomics, proteomics and bioinformatics” on April 3.

Award Lectures and Special Sessions at Experimental Biology 2005 – San Diego, CA

Sunday, April 3		Monday, April 4	
AM	PM	AM	PM
11:00 AM Amgen Award Lecture A. Chinnaiyan	2:00 PM Trends in Experimental Pathology: New Technologies in Investigative Pathology K.A. Gardner, D.L. Rimm	8:30 AM Chugai Award Lecture and Sym- posium for Young Investigators P.A. Ward	2:00 PM President’s Symposium: Stem Cells: Differentiation and Involvement in Remodeling and Cancer N. Fausto
	5:00 PM ASIP Keynote Lecture: Lentivectors for Gene Delivery I. Verma	11:30 AM Rous-Whipple Award Lecture J.Q. Trojanowski	5:00 PM ASIP Membership Business Meet- ing and Awards Presentation N. Fausto
All sessions in Room 16A of the San Diego Convention Center, unless otherwise noted			5:45 PM – Mezzanine Foyer ASIP Awards Reception

Report from the Education Committee

Linda McManus

As graduate school programs become more "interdisciplinary," pathology as a research discipline faces challenges. On one hand, investigations into the mechanisms of disease are highly attractive in trainee recruitment. On the other hand, the identity of pathology can be lost within an interdisciplinary approach. To what extent should pathology be included in the curriculum of interdisciplinary graduate students? The fifth annual meeting of **Graduate Program Directors in Pathology**, "Recruiting and Training the Experimental Pathologists of the Future" (11am-5pm, Friday, April 1 in the San Diego Marriott Hotel) will address contemporary issues in education in pathology. Organized by Robert Bowser (University of Pittsburgh); speakers include Angela Wandinger-Ness (University of New Mexico) and W. James Waldman (Ohio State University). Online registration is available (www.asip.org/mtgs/EB05/gpdmgtg.htm). While especially relevant for Directors of graduate programs in pathology, this session is open to anyone with an interest or involvement in graduate education.

Scheduled for a late spring release, the **web-based course** "Concepts in Pathobiology: Cellular and Molecular Mechanisms of Disease," directed by William Coleman (University of North Carolina) will

include four separate modules (Cell injury/cell death; Growth and development; Inflammation; and Neoplasia) with 5-6 hours of lecture in each. Course faculty include Dr. Coleman, Charleen Chu (University of Pittsburgh), William E. Highsmith, Jr (Mayo Clinic), and Nicholas Lukacs (University of Michigan). The fundamental aspects of the histopathology, natural history, and molecular basis of disease will be presented in each of these areas. CME credit will be available. Individuals may register for 2-4 modules; a special departmental rate for an unlimited number of users will also be available. Course details and registration information will be distributed to the ASIP membership soon. A streamlined, one-day version of this electronic course is scheduled for Saturday, April 2, at EB 2005, entitled "Essential Concepts in Pathobiology: Cellular and Molecular Mechanisms of Disease" (www.asip.org/mtgs/EB05/concepts.htm).

The new ASIP-sponsored **face-to-face course**, "Molecular Mechanisms of Human Disease," organized by Richard Mitchell (Brigham & Women's Hospital) and Abul Abbas (University of California, San Francisco) will take place June 21-25, 2006 in San Diego at UCSD. The 5 day, state-of-the-art program is

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Pathways to Leadership

Nancy Thompson

ASIP and the FASEB MARC Program are pleased to co-sponsor a unique national Career Development Workshop entitled "Pathways to Leadership" to be held during the Experimental Biology 2005 meeting in San Diego on Sunday, April 3 starting at 8:30 AM. This forum will feature five high profile panelist-speakers with backgrounds in disease-related and/or basic biology training who have subsequently attained significant national leadership posts in a range of settings including academic administration, pharmaceutical research industry, government agencies, and national scientific organizations. These leaders and role models will share their pathways, strategies, obstacles, insights, and perspectives regarding their leadership positions for the benefit of those who are at an early stage in their career or contemplating taking on the challenge of a major leadership role. Our diverse panel includes women and minorities, MDs and PhDs and features Barbara Atkinson, MD; Mark Sobel, MD, PhD; Valerie Petit Wilson,

Hinda Zlotnik, PhD and Cynthia Arbeeney, PhD. A moderated audience-panel discussion will follow individual presentations. We expect the universal appeal of this topic and its interdisciplinary nature will draw a wide audience. The session is co-chaired by Nancy Thompson, PhD and Vallie Holloway, PhD. Refreshments provided!

Join us to find out the answers to these questions:

- What exactly is a "day in the life" of a leader role model like and is it for me?
- How can I best position myself to achieve a major leadership position in my area?
- What unexpected responsibilities come with a leadership role?
- Are there differences in the way women and men approach leadership?
- How do biomedical leadership approaches differ from those in business?



Essential Concepts in Pathobiology

*Cellular and Molecular
Mechanisms of Disease*

Experimental Biology

April 2, 2005, 8:00-5:00

Chaired: William B. Coleman, PhD

Unit 1

Cell Injury and Cell Death

Charleen T. Chu, MD, PhD

Department of Pathology, Division of Neuropathology

Pittsburgh Institute for Neurodegenerative Diseases

University of Pittsburgh

Unit 2

Pathobiology of Inflammation

Nicholas W. Lukacs, PhD

Department of Pathology

University of Michigan

Unit 3

Cancer Pathobiology

William B. Coleman, PhD

Department of Pathology and Laboratory Medicine

Curriculum in Toxicology

UNC Lineberger Comprehensive Cancer Center

University of North Carolina School of Medicine

Unit 4

Pathobiology of Genetic Disease

W. Edward Highsmith, Jr., PhD

Co-Director, Molecular Genetics Laboratory

Department of Pathology and Laboratory Medicine

Mayo Clinic

REGISTRATION FORM

One-Day Course: Essential Concepts in Pathobiology, April 2, 2005

Mail or Fax
Registration Form to:

American Society for
Investigative Pathology
9650 Rockville Pike
Bethesda, MD 20814-3993

Phone: 301-634-7950
Fax: 301-634-7990
Email: meetings@asip.org
www.asip.org

Register Today!

Free to EB Registrants - Registration Required for Course Materials

Name _____

Department _____

Institution _____

Address _____

City _____ State _____ Zip/Postal Code _____

Country _____ Phone _____

Fax _____ Email (required) _____

Report from the Program Committee

Martha B. Furie

The next ASIP Annual Meeting will be held in conjunction with Experimental Biology 2005 from April 2-6 in San Diego's beautiful convention center, overlooking San Diego Bay. All details of programming have been finalized, and the complete schedule of symposia, workshops, award lectures, and other special events is available on our meeting website at www.asip.org/mtgs/EB05/welcome.htm. In addition, 513 abstracts that were submitted to ASIP topic categories were programmed in ten minisymposia and 23 poster sessions or as an integral part of two full-day Molecular and Cellular Basis of Disease Symposia, which focus on inflammation and neoplasia. On Sunday, April 3, Dr. Inder Verma of the Salk Institute will deliver the first of what we expect will become a long tradition of distinguished keynote lectures; his talk is entitled, "Lentivectors for Gene Delivery."

As you know, the deadline for early registration and housing requests have past. There will be onsite registration. Go to www.faseb.org/meetings/eb2005/call/default.htm for full details.

The Program Committee is also in the midst of planning for the 2006 Annual Meeting, which will be held from April 1-5 in another lovely venue, San Francisco's Moscone Convention Center. As usual, we will be joined by a number of guest societies, and the North American Vascular Biology Organization (NAVBO) will be integrating its annual meeting fully with ours in 2006. The American College of Veterinary Pathologists

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designed for scientists in academia and industry as well as graduate students in pathology or others interested in pathogenesis. Basic principles will be illustrated by one or more diseases and will include sessions on current technologies involved in investigative studies. Mark your calendars; further details will be forthcoming.

Also at **EB 2005**, ASIP, in co-sponsorship with the Intersociety Council for Pathology Information (ICPI), will again offer an outreach workshop for local high school science teachers (Tuesday, April 5). The half-day session, "*Scientific Sleuthing of Human Disease*" is designed to introduce teachers to the discipline of pathology for inclusion in high school curricula www.asip.org/mtgs/EB05/hsprog.htm. The program includes presentations by Peter Anderson (University of Alabama at Birmingham), Marion Cohen (University of

will be organizing a full-day symposium on animal models of disease, and ASIP and NAVBO will co-host a full-day Molecular and Cellular Basis of Disease Symposium centering on cutting-edge topics in vascular biology and pathology. A second such symposium will focus on redox-mediated diseases, which is a rapidly growing area of interest for our members.

Themes for other symposia in 2006 include epithelial to mesenchymal transition; hot topics in innate immunity; and topics in neurological oncology. The 2006 Trends in Experimental Pathology Symposium is tentatively entitled, "Pathologists' Insights for Systems Biology: from Mathematical Models to Morphology." Workshops will comprise our traditional Liver Workshop, Career Pathways in Pathology for Clinician Scientists, and a workshop on the basics of bioinformatics for experimental pathologists. Our 2006 program also will include the President's Symposium; award lectures; sessions organized by the ASIP Committee for Career Development, Women and Minorities; symposia hosted by guest societies; and a keynote lecture.

The Program Committee always values input from the membership. If you have suggestions for speakers for our 2006 Annual Meeting, please send them to the committee chair, Martha Furie, at Martha.Furie@stonybrook.edu. In the meantime, we look forward to seeing you in sunny San Diego in April.

Medicine and Dentistry at New Jersey), Linda McManus (University of Texas Health Science Center at San Antonio), and Elizabeth Unger (Center for Disease Control) with teaching materials provided for use in preparing classroom lessons. ASIP and ICPI are sponsoring another outreach program at EB05 on April 2. This informal session, "*Science Seekers Challenge*," targets undergraduate science students and their advisors largely from institutions in Southern California and will introduce potential graduate students to investigative pathology, the scientific meeting/exhibits, and pathology graduate programs. Representatives of pathology graduate programs are encouraged to attend or send details of their graduate training opportunities for distribution to these prospective students. The FASEB MARC office expects ~150 students at EB05; this is an outstanding opportunity for graduate programs to recruit from a pool of future trainees.

American Society for Investigative Pathology

Experimental Biology 2005
April 2-6, 2005 - San Diego, CA

KEYNOTE ADDRESS

- Dr. Inder Verma, Salk Institute, Lentivectors for gene delivery.

SYMPOSIA

- **ASIP President's Symposium - Stem Cells: Differentiation and Involvement in Regeneration and Cancer**, Chaired: *N. Fausto*
- **Environmental Toxicology**, Chaired: *P.T. Cagle & D.S. Zander*
Sponsored by the American Society for Investigative Pathology and the Pulmonary Pathology Society
- **Innate Immunity at the Epithelial Barrier**, Chaired: *A. Nusrat & S.P. Colgan*
- **Mechanisms of Neuronal Cell Death**, Chaired: *T. Montine & K.A. Roth*
- **Molecular and Cellular Basis of Disease: New Developments in Inflammation**, Chaired: *T.N. Mayadas & J. Jialal*
- **Molecular and Cellular Basis of Disease: Pathobiology of Neoplasia: Gateway to Improved Prognosis**, Chaired: *S.P. S. Monga & T.P. Pretlow*
- **Tissue Arrays: Molecular Morphology Tools for Discovery**, Chaired: *L. DeBault and R. Tubbs*, *Sponsored by ASIP and the International Society for Analytical and Molecular Morphology*
- **Trends in Experimental Pathology: New Technologies in Investigative Pathology**, Chaired: *K.A. Gardner & D.L. Rimm*, *Supported by an unrestricted grant from the Robert E. Stowell Endowment Fund, Celgene and Meso Scale Diagnostics, LLC.*

AWARD LECTURES

- **Amgen Outstanding Investigator Award Lecture: The Future of Pathology: Genomics, Proteomics and Bioinformatics**, *A. Chinnaiyan*
Supported by a unrestricted educational grant from Amgen
- **Chugal Award for Excellence in Mentoring and Scholarship Lecture & Symposium for Young Investigators**, *Supported by an unrestricted educational grant from Chugai Pharm. Co.*
- **Rous Whipple Award Lecture: The Alzheimer Brain: Finding Out What's Broken Tells us How to Fix it**, *J.Q. Trojanowski*

COURSE

- **Basic Concepts in Pathobiology: Cellular and Molecular Mechanisms of Disease**, *Course Director: W.B. Coleman*, *Sponsored by the ASIP Education Committee*

WORKSHOPS

- **Career Pathways in Pathology for Clinician Scientists**, Chaired: *D.J. Templeton*
- **Experimental and Therapeutic Control of Gene Expression**, Chaired: *A. Dutta*
- **Pathways to Leadership**, Chaired: *N.L. Thompson and V.M. Holloway*
Sponsored by the ASIP Committee for Career Development, Women & Minorities and the FASEB Minority Access to Research Careers Office
- **Liver Pathology - Signal Transduction in Liver: Usual Suspects and More**
Chaired: *S.P.S. Monga & R.A. Taub*

SPECIAL SESSIONS

- **5th Annual Mentoring Luncheon: Getting Your Dream Job: Preparing Your CV & Managing Your Interview**, Chaired: *T.S. Sander and S. Prattis*
Sponsored by the ASIP Committee for Career Development, Women & Minorities and the American Association of Anatomists
- **How to Prevent Institutional Shutdowns: Safeguarding Your Human Subjects Research Program**, Chaired: *M.E. Sobel*, *Sponsored by Experimental Biology 2005*
- **Graduate Program Directors Workshop**, Chaired: *R. Bowser*, *Sponsored by the ASIP Education Committee*
- **Highlights: Graduate Student Posters in Pathology**, Chaired: *G. Pasternack*
Sponsored by the ASIP Committee for Career Development, Women & Minorities
- **ASIP Membership Business Meeting**
- **ASIP Awards Reception & Presentation**

GUEST SOCIETY SYMPOSIA

- **American College of Veterinary Pathologists Symposium: Mutant Animal Models: Phenotyping and Comparative Medicine**, *D.G. Rudmann*
- **American Society for Matrix Biology Minisymposium, Extracellular Matrix Regulation of Angiogenesis**, Chaired: *R.V. Iozzo*, *Sponsored by ASIP and the American Society for Matrix Biology*, *Supported by an unrestricted educational grant from: Lifecell*
- **Association for Pathology Informatics (A Division of ASIP) Symposium: Databases: From Fundamentals to Multi-Institutional Resources**, *J. Sinard*
- **North American Vascular Biology Organization: Blood Vessel Club: Aging of Blood Vessels is Coming of Age**, Chaired: *Z.S. Galis*, *Supported by an unrestricted educational grant from: VEC Technologies and Eli Lilly and Company*
- **Society for Leukocyte Biology Symposium: Signaling in Innate Immunity**, Chaired: *G. Bokoch*

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Milestones . . . in Investigative Pathology

Richard G. Lynch

Warren JR, Marshall BJ

**Unidentified curved bacilli on gastric epithelium
in active gastritis**

Lancet i:1273-1275, 1983

Marshall B, Warren JR

**Unidentified curved bacilli in the stomach of
patients with gastric and peptic ulceration**

Lancet i:1311-1315, 1984

These two landmark publications appeared almost 100 years after the first report of spiral bacteria in the human stomach and the initial speculation by some researchers that gastric ulceration was an infectious disease. Although more than 100 experimental studies suggesting a microbial cause of gastritis and peptic ulcers had been published in the first half of the 20th century, and several bacterial and viral species had been implicated as etiologic agents, the concept of an infectious pathogenesis for these common ailments was repeatedly rejected by influential authorities in gastroenterology and pathology. The prevailing belief was that microbes could not survive in the acidic environment of the stomach and that bacteria present in resected stomachs and at autopsy were artifacts caused by contamination and post-mortem growth.

J. Robin Warren, a pathologist working at the Royal Perth Hospital in Western Australia, noticed curved rod-shaped bacilli in about half of the routine gastric biopsies he examined over a period of three years and found a direct correlation between the number of organisms in the tissue and the severity of gastritis. Convinced of the significance of his observations he enlisted the participation of Barry Marshall, a trainee in Internal Medicine, and a joint effort was launched to isolate the microorganism. Warren had noticed the resemblance of the curved bacilli to *Campylobacter*, a family of known intestinal pathogens. Using microaerophilic conditions that favor the laboratory growth of *Campylobacter*, they tried, unsuccessfully, to grow bacteria from stomach biopsies for more than a year. Serendipity delivered success when abundant bacterial growth was found in cultures that had been inadvertently left in the incubator over the Easter holidays, unintentionally extending the incubation period from two to six days.

While the isolation of *Helicobacter pylori* was a breakthrough achievement, it did not establish that the microbe caused gastritis. It was already known from autopsy studies that curved rod-shaped bacilli were present in the stomachs of many individuals who had neither gastritis nor a history of stomach disease. The successful isolation of bacteria from gastric biopsies by Marshall and Warren satisfied the first two of Koch's four postulates, but all four had to be met to indisputably prove that the organism that had been isolated was the cause of the gastritis. In an amazingly daring feat that ultimately fulfilled Koch's postulates, Marshall and another volunteer ingested cultures of the bacteria. Both of them developed acute gastritis proven by endoscopic biopsies from which the suspected pathogen was re-isolated. These results confirmed the link between *H. pylori* and gastritis, but since neither subject developed an ulcer, that link still remained unproven. Subsequent clinical trials showing that antimicrobial therapy could cure ulcers left no doubt that *H. pylori* caused gastric and duodenal ulcers. When Warren and Marshall used standard bacteriological tests and electron microscopy to characterize the isolated organism they found that it was not a *Campylobacter* species, but a newly discovered microbe that was subsequently designated *Helicobacter pylori*.

The findings of Warren and Marshall had enormous impacts. Peptic ulceration, a disease of world wide occurrence whose definitive treatment was surgical, became a disease that could be treated and cured with antibiotics. In the United States alone, approximately 4 million people have peptic ulcers. *H. pylori* infection is present in virtually all of them when the ulcer is located in the duodenum and in the vast majority of them when the ulcer is in the stomach. Once *H. pylori* could be cultured it became possible to determine the global prevalence and distribution of the infection. Immuno-epidemiologic tests to detect the presence of anti-*H. pylori* antibodies were performed on archived blood samples and quickly established that at least 30-50% of the world's population was colonized with *H. pylori*. Great variability was observed between different countries in the incidence of the infection and the age at

(Continued on page 17)

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Journal News

Maria Giorla Eisemann

There are a number of exciting new developments to announce for *The American Journal of Pathology* and *The Journal of Molecular Diagnostics*. We are proud to say that ASIP is the first of many prestigious society publishers to implement a new feature for the delivery of individual articles and article collections. The journals recently collaborated with Cadmus Communications to implement ArticleWorks[™], the next evolution of article distribution beyond traditional pay-per-view. Using this feature, readers will be able to order multiple secure electronic reprints for distribution to colleagues or linking from an independent website. Readers can also order print-on-demand hardcopy reprints of articles (single or multiple copies) with the high quality true to the standards of our print journals and delivered within 48 hours. Customization of ArticleWorks will allow us to offer topic-specific and author compendiums, article course pack bundles with personalized covers, and other customer-specified content. We are very excited about the potential for new content offerings and business opportunities that ArticleWorks brings to the journals and to ASIP.

Additionally, the journals are proud to announce their participation in HINARI (Health Internet Access to Research Initiative), a project run by the World Health Organization which provides broad access to biomedical research to developing nations. Through the HINARI program, libraries in countries that would otherwise not be able to afford regular institutional subscriptions will have free or minimum-charge electronic access to the full content of *AJP* and *JMD*. This continues the ASIP mission of advocating and actively contributing to the broadest possible dissemination of investigative pathology research.

The Journal office continues to grow. Audra Cox, Ph.D. has recently joined the office as our first-ever Scientific Editor. She will be expanding and enhancing our commitment of services to authors, by working with them to polish abstracts and articles, offering better coordination and focus for review articles and commentaries, and in coordination with the Editor-in-Chiefs' offices and the Journal Marketing Manager will be implementing an increased media exposure program for high impact articles. Additionally, the *AJP* will soon be announcing the addition of a Special Editor to further develop editorial features such as topic reviews and other special articles.

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(Continued on page 16)

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(Continued on page 16)

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which infection was acquired, and in the incidence of infection amongst different socioeconomic and ethnic groups. A surprising finding was that more than 80% of infected individuals were asymptomatic and only about one in six had an ulcer.

The milestone publications of Warren and Marshall triggered numerous basic and clinical investigations aimed at understanding the biology of *H. pylori*, the host response to encounter with the microbe, and the cellular and molecular mechanisms underlying the pathology of *H. pylori* infection. In a relatively short time these investigations proved to be extraordinarily productive and answered many of the questions that had previously fueled the skepticism surrounding the concept of an infectious etiology of ulcers. Numerous virulence factors encoded by the genes of *H. pylori* and passenger plasmids were identified and shown to influence colonization, persistence and pathogenicity of *H. pylori*. A high degree of genetic polymorphism in the expression of these virulence factors was observed in different isolates. This phenotypic heterogeneity provided insight into the highly variable host consequences of infection with *H. pylori*. The entrenched disbelief that microbes could survive in the strongly acidic environment of the gastric mucosa was annulled by the finding that *H. pylori* produced urease, an enzyme that made it exquisitely suited to survive in an acidic niche. Urea present in gastric secretions is cleaved by the microbial urease to yield ammonia and bicarbonate that create a moat of pH neutrality surrounding the bacterium. Urease activity became the basis of a clinical test that was developed to screen patients for the presence of gastric *H. pylori*. A major boost was given to the *H. pylori* field in 1997 when the entire DNA sequence of the bacterial genome was published in *Nature*.

Beyond its relevance to gastritis and ulcers, the discovery by Warren and Marshall ultimately led to the designation of *H. pylori* as a Class I carcinogen by the World Health Organization International Agency for Research in Cancer. Investigations that followed the landmark findings of Warren and Marshall established that the range of epithelial changes in chronic gastritis included hyperplasia, metaplasia, dysplasia and carcinoma. Decades before *H. pylori* had been isolated an association between cancer of the stomach and chronic gastritis had been recognized. The discovery that *H. pylori* was the major cause of chronic gastritis linked *H. pylori* and gastric cancer. In addition, pathologists had long observed a wide spectrum in the

intensity of lymphoid cell infiltration and follicular development in stomachs with chronic gastritis. At times distinguishing between chronic gastritis with intense lymphoid infiltration and gastric lymphoma could present a diagnostic challenge. In some *H. pylori*-infected patients the florid gastric lymphoid proliferation that was present met the diagnostic criteria of gastric lymphoma, but treatment of these patients with antimicrobial agents resulted in elimination of *H. pylori* and complete regression of the lymphoid proliferative process, an outcome that challenged the dogma that neoplasms are autonomous and neoplastic transformation is irreversible. Subsequent investigations showed that in some patients the neoplastic lymphoid cell proliferation was driven by host immune recognition of *H. pylori* antigens by lymphoid cells.

There are several principles contained in the *H. pylori* story. One of them, a recurrent element in the history of biomedical progress, is the vital role of the independent investigator. While important large projects such as determining the entire DNA sequence of a genome typically requires the collaborative efforts of several large groups of investigators, discoveries that change paradigms often come from young independent investigators working in situations that are permissive of the high risk research that challenges established dogma. Another recurrent principle illustrated in the cascade of research that followed the milestone publications of Warren and Marshall is that diseases are sophisticated experiments of nature whose elucidation yields extraordinary societal benefits.

Suggested Readings:

1. The Immunobiology of *H. pylori*: From Pathogenesis to Prevention
Ernst PB, Michetti P, Smith PD, eds.
Lippincott-Raven, Philadelphia 1997
2. Lynch NA
Helicobacter pylori and Ulcers: A Paradigm Revised
<http://www.faseb.org/opa/pylori/pylori.html>

News and Notes



Philip T. Cagle, the new Editor-in-Chief of Archives of Pathology and Laboratory Medicine.

Dr. Philip Cagle is the new Editor-in-Chief of *Archives of Pathology and Laboratory Medicine*. The *Archives* has the largest circulation of any general pathology journal in the world and is one of the oldest continuously published pathology journals in the United States. First published in 1926 as a specialty journal of the American Medical Association, *Archives* was the official journal of the American Society for Experimental Pathology (one of the precursor societies

to the current ASIP) from 1956 to 1970. The College of American Pathologists (CAP) became a joint sponsor of the *Archives* in 1984 and *Archives* became the official journal of the CAP in 1995. The *Archives* has been the publication home for several years for the Association for Pathology Informatics, which is now a Division of the ASIP. Dr. Cagle has developed a new editorial board (which includes many ASIP members) and is charged with enhancing the scientific merits of the journal and serving a broad and diverse constituency.

Dr. Alan S. Rabson, long-term member of ASIP, was honored by the NCI during the 2005 NCI winter intramural principal investigator retreat on the occasion of his 50th year of service and his extensive contributions to the institute. NCI Director Dr. Andrew von Eschenbach announced the inauguration of the Rabson Award, to be presented annually in recognition of outstanding NCI intramural cancer research.

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Calendar of Events

Oxidative Stress and Disease

March 13-18, 2005; Ventura, CA

www.grc.org

Experimental Biology 2005

April 2-6, 2005; San Diego, CA

www.asip.org

International Society for Biological and Environmental Repositories Annual Meeting

May 1-4, 2005; Seattle, WA

www.isber.org

28th Annual Conference on SHOCK

June 4-7, 2005; Marco Island, FL

www.shocksocieties.org/meetings/28th_us_shock/announcement.html

Vascular Biology and Medicine 2005: From Molecules to Man

June 16-19, 2005; Chicago, IL

www.navbo.org

Cancer Models and Mechanisms

July 24-29, 2005; Smithfield, RI

www.grc.org

Annual Meeting of the Association of Pathology Chairs

July 27-30, 2005; Mont Tremblant, PQ Canada

www.apcprods.org

Immunochemistry & Immunobiology

August 7-12, 2005; Oxford, UK

www.grc.org

Annual Meeting of the Association for Molecular Pathology

November 10-13, 2005; Scottsdale, AZ

www.amp.org

Developmental Vascular Biology Workshop II

February 1-5, 2006; Monterey, CA

www.navbo.org



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