President's Message

Celebrate One Hundred Years of Our Scientific Society!

By now everyone must be aware that the 2013 Annual Meeting includes a celebration of the Centennial of ASIP, which can trace its heritage through the 1913 establishment of the American Society for Experimental Pathology (ASEP). ASEP merged in the 1970s with the American Association of Pathologists and Bacteriologists to form our current Society. What was life like for our 1913 colleagues who had the wisdom to found a scientific society dedicated to experimental pathology?

1913 was before the theory of relativity (1915 - Einstein), before the first birth control clinic in the U.S. (1916 - Margaret Sanger), before the 19th Amendment giving women the right to vote (1920), before insulin (1922 - Banting and Best), and before DNA was recognized as the genetic material of chromosomes (1943 - Avery). It was a time before women “bobbed” their hair and when dress and methods of communication were formal. It was before the great devastation of World War 1. In 1913, brillo pads, crossword puzzles, bras, and zippers joined a number of other recent inventions that appeared between1900-12: tea bags, lie detectors, telegraph, teddy bears, aviation (Wright brothers), safety razors, Lifesaver candy, and instant coffee. Also in 1913 Niels Bohr proposed his model of the atom, Henry Ford established the assembly line to produce cars, and the National Women’s Party picketed the White House for women’s right to vote. The 1912 Summer Olympics (Games of the V Olympiad) had just been held in Stockholm, Sweden. This was the last time that solid gold medals were awarded. The games included tug-of-war as a contest and Jim Thorpe set records in the decathlon (competing in mis-matched shoes) that would stand for decades (the last in 1972).

Clearly a lot has changed in 100 years. I’m sure ASEP members from 1913 would be amazed at the pace of life and science. How fast we travel and how long we commute. How we stay connected through the internet and social media (at least some of us). How new technologies allow us to ask and answer questions that couldn’t have been imagined. But I also trust that they would find some essentials the same; the need for scientists to communicate their new findings, the excitement of discovery, and the joy and obligation of training the next generation of scientists. So after 100 years,
we remain a scientific society. The society part of us is as important as the science part. We, the members, form a Society of colleagues and friends that share a commitment to advancing experimental pathology. We are diverse, and that is part of our strength.

So I encourage you to celebrate your membership in ASIP by active participation in our Society. Share the good news about the value of ASIP membership and encourage others to join. [Note: you will receive a $25 discount in your 2014 dues for each new regular member that you recommend in 2013 until September 1, 2013 – see special membership application on page 11]. And if you don’t know what these membership benefits are, read the rest of the newsletter, visit the web site, and most importantly come to the Annual Meeting. The Annual Meeting provides outstanding opportunities for all, but particularly junior faculty and trainees, to form professional networks, and to grow professionally through leadership and service.

Get Ready for the 2013 Annual Meeting and Bring your Trainees
Our 2013 Annual Meeting will be held in Boston from April 20-24 in conjunction with the Experimental Biology conference. The Centennial celebration will make this meeting particularly memorable, and bringing your trainees to introduce them to “Society” will top it off. ASIP has a very active Trainee Award program that provides funds ($750 to $2,000) to support travel of Trainee members and to recognize scientific excellence of their abstracts (see http://www.asip.org/awards/) At the 2012 Annual Meeting 30 trainee awards were presented.

All this starts with the submission of your (and your trainees’) abstracts. The deadline for abstract submission is November 8th. Your abstracts form the basis for our meeting, and the members of the Program Committee, led by Bill Luscinskas, will incorporate these into thematic minisymposia and poster sessions.

The special events in celebration of our centennial have been organized by the Centennial Task Force, headed by Steve Galli. These include a not-to-be missed reception at the Institute of Contemporary Art in Boston. The Society history is being explored and Maria Giorla is preparing a compendium of the scientific impact of the Society to be published in time for the meeting. ASIP has established a special Centennial Fund, and I hope that you will consider making a (tax-deductible) contribution to help support these exciting Centennial activities.

I look forward to seeing you at the meeting. We are always anxious to hear from you about your ideas to improve the Society, the services that you are interested in and ways that you would like to be involved. Concerns or complaints are also welcomed. Please send these through ASIP staff at asip@asip.org.

Members in the News...
Maria J. Merino, MD, Chief of Translational Surgical Pathology at the National Cancer Institute, has been selected to receive the Joanne Vandenberg Hill Award from the M.D. Anderson Cancer Center. Dr Merino will present the 2013 William O. Russell lecture on Saturday morning January 19, 2013 at the 2013 MDACC Diagnostics Pathology Course.
Welcome New Members!

Regular Members
Tokiyoshi Ayabe, MD PhD, Hokkaido University
Pinar Bayrak-Toydemir, MD PhD, ARUP Laboratories
Hal Kenneth Berman, MD PhD, University of Toronto
Timothy Cooper, DVM PhD, Penn State Hershey Medical Center
Victor Darley-Usmar, PhD, Univ of Alabama Sch of Medicine
Andrew Wayne Duncan, PhD, University of Pittsburgh
Anna Gasperi-Campani, PhD, University of Bologna
Katherine Gibson-Corley, DVM PhD, University of Iowa
Laura Janke, DVM PhD, St Jude Children's Research Hospital
Kelly Jordan-Sciutto, PhD, University of Pennsylvania
Isabelle Caroline Le Poole, PhD, Loyola Univ Med Ctr
Amy S. Lee, PhD, USC/Norris Cancer Ctr
Amy MacNeill, DVM PhD, University of Illinois
Debabrata Mahapatra, DVM, Texas Veterinary Medical Diagnostic Laboratory (TVMDL)
Marcus Martin, PhD, Spinal Research Foundation
Milton McAllister, DVM PhD, University of Adelaide
Leticia Miravalle, PhD, Genetics Associates Inc.
Shunichiro Okazaki, MD PhD, Sapporo Medical University
Laura Pageon, DVM, UT MD Anderson Cancer Center
Jon Todd Painter, PhD DVM, Human Genome Sciences, Inc.
Dipak Panigraphy, MD, Harvard Medical School Vascular Biology Program
Michael Robek, PhD, Yale University
Surge Roussele, DVM, Alizee Pathology LLC
Alexey Petrovich Sarapul'tsev, MD PhD, Institution of Immunology and Physiology of the Ural Branch of the Russian Academy of Science
Volker Spindler, MD, Ludwig-Maximilians-Universitat (LMU) Munich
Rajanikanth Vadigepalli, PhD, Thomas Jefferson University
Jens Waschke, MD, Ludwig-Maximilians-University (LMU) Munich
Katherine Hope White, PhD, Ventana Medical Systems, Inc.
Joan Wicks, DVM PhD, Alizee Pathology, LLC
Qin Yan, PhD, Yale University School of Medicine

Trainee Members
Post-Doctoral Trainees
Madhurima Biswas, MBBS, University of California, Irvine
Daniel Chienyu Chen, MD PhD, UCI Medical Center
Partha Das, MD, Tulane University
Andrew Fesnak, MD, Hospital of the University of Pennsylvania
Alessio Giubellino, MD, NIH/NICHHD
Michelle Green, PhD, University of Illinois
Guowei Gu, PhD, Baylor College of Medicine
Nicolas E.R. Kozakowski, MD, Medical University of Vienna
Mary Beth Manjerovic, PhD, University of Illinois
Lucy Norling, PhD, Queen Mary University Barts & the London Sch of Med & Dentistry
Gopinath Palanisamy, PhD DVM, Memorial Sloan-Kettering Cancer Center
Andrei Turtoi, PhD, University of Liege

Pre-Doctoral Trainees
Oluwatobi Adelaja, University of Illinois College of Medicine
Eva Arnold, Ludwig-Maximilians Universitat
Deborah Brahee, St. George’s University (SGU)
Michael Durando, University of North Carolina at Chapel Hill
Taryn Lindsey Green, University of Mississippi Medical Center

Bronwyn Mei Gunn, University of North Carolina at Chapel Hill
Ekaterina Khramtsova, University of Chicago
Lifang Li, Stony Brook University
Kate Maureen O’Brien, Michigan State University
Matthew Odenwald, University of Chicago
Jeong Teag Oh, Carnegie Mellon University
Salvatore Michael Parrino, SUNY Stony Brook
Mahalakshmi Ramadass, Stony Brook University
Deeksha Vishwamitra, The University of Texas M.D. Anderson Cancer Center
Bryan Wilson, Wake Forest School of Medicine

Undergraduate Members
Krystal Ealy, Syracuse University
Martha Lewis, Long Island University - Brooklyn Campus
Katrina Lybeck, NDSU
Jennifer Watkins, UTHSCSA

Associate Members
Jerri Anne Cupero, Arlington Career Center
Steven Karsi, Alchemy Scientific, Inc.

Call for Nominations for the ASIP 2013 Election
In 2013, ASIP Regular members will be voting for the following open positions for terms to begin July 1, 2013:

• Vice-President. The VP will serve a one-year term and then will automatically proceed to one-year terms as President-elect, President, and Past President. Thus, this is a four-year commitment to service on the ASIP Council.
• Secretary-Treasurer. The Secretary-Treasurer serves a three-year term. In addition to fulfilling traditional functions, the Secretary-Treasurer is the Chair of the ASIP Finance Committee.
• Councilor-at-Large. The Councilor-at-Large serves a three-year term on the ASIP Council.
• Meritorious Awards Committee Member. Each year, two members are elected to join the Meritorious Awards Committee for a three-year term. The committee reviews candidates for the ASIP Meritorious Awards (Gold-Headed Cane, Roux-Whipple, Outstanding Investigator, Cotran Early Career Investigator Award, Robbins Distinguished Educator Award, and Young Scientist Leadership Award) and selects the awardees.
• Nominating Committee Member. Each year, two members are elected to join the Nominating Committee for a three-year term. The Nominating Committee develops the ballot for all positions on the ASIP Council, Meritorious Awards Committee, and Nominating Committee.

If you wish to nominate a candidate for any of these positions, please complete the online ASIP Nomination Form at www.asip.org/nominate. You will be requested to provide your reason for nominating the individual. The deadline to submit nominations is November 1, 2012. Self-nominations are encouraged!
Milestones...

in Investigative Pathology

by William K. Funkhouser, MD, PhD

Proving Virchow’s “Omnis cellula e cellula”
(“All cells derive from other cells”)


As you count mitotic figures per 10 high-power fields, your activity presumes knowledge that the gross tumor seen on PET/CT scan was due to the accumulation of neoplastic cells, and that the basis for this accumulation was a net difference in cell birth and cell death rates. You know that the cell birth rate is a function of the cell cycle time and the percentage of the population in the cell division cycle, and that cell birth is due to division of a parent cell into two similar daughter cells. You know that the daughter cells have features similar to the parent cell because of the similarities of their template DNA, and that the daughter cells are similar to each other in large part because of the semi-conservative replication of the parent cell’s template DNA. You bother to count mitoses to define grade because statisticians have correlated neoplastic cellular kinetic parameters in certain neoplasms with natural history (think untreated Burkitt’s lymphoma and follicular lymphoma) and response to chemotherapy.

It wasn’t always so. In the first half of the 19th century, one of the scholarly debates in microscopic anatomy and pathology was how cells in the various tissues came into existence. Schools of thought ranged from spontaneous generation (Aristotle on), to physicochemical crystallization within pre-existing cells (Schleiden, Schwann), to origin of new cells from pre-existing cells (Remak, Virchow). Pasteur’s goose-neck experiments of the 1850 served to disprove the 2,000-year-old concept of spontaneous generation.

It was left to Walther Flemming (English translation at J Cell Biol 25: 3–69, 1965) to use histochemical stains on acid-fixed fire salamander epithelia to observe and describe the phases of mitosis and cytokinesis. The studied cells were large and flat, allowing finely detailed observations with available optics. He noted that duplication of nuclei requires an intermediate step during which there is a “metamorphosis of the nuclear mass into threads” that align and separate, i.e. mitosis. He referred to this as “indirect nuclear division,” and commented that he never observed “direct” nuclear division (without mitotic progression) in the plants or animals that he studied. He coined the term “chromatin” for the stained nuclear material, and the term “mitosis,” combining the Greek term mit (thread) with -osis (accumulation) to describe the process of nuclear dissolution and duplication. Flemming described the phases of mitosis, drawing the compaction, alignment, and subsequent segregation of sister chromatids into daughter cells, with reversal of the compaction process in the newly formed daughter nuclei. He noted a standard progression in the mother cell nucleus from “skein” (early prophase) to “star” (metaphase) to “equatorial plate” (anaphase). He noted that this metamorphosis into threads (mitosis) is a standardized sequence of nuclear events across multiple tissue types and across multiple species, with the end result that a mononuclear cell divides into 2, and only 2, daughter cells. He concluded that mitosis is the usual process for nuclear (and cellular) division of a mother cell into two daughter cells, commenting: “The most significant result at this point to me, consists in having retained the possibility of reducing the division process everywhere to phenomena which are fundamentally and in principle alike, and are produced by the same forces.” His documentation of division of eukaryotic mother cells into two similar daughter cells supported Remak’s and Virchow’s theory that all cells are derived from other cells (“Omnis cellula e cellula”).

We now know that chromatid segregation is the last step in a cell division cycle that begins with fast, coordinated replication of the entire chromosome complement using multiple origins of replication, with centromeric cohesion of sister chromatids until microtubule tensions are balanced at metaphase (Blow, EMBO Rep 6:1028, 2005). Mother cell DNA replication leads to sister chromatid segregation into daughter cell neo-nuclei via the stepwise process of Flemming’s mitosis. Repeat as able, until your telomeres wear out. Distort the process by running through your cell division cycle checkpoints and ignoring the DNA damage, and you can end up with daughter cells showing non-diploid chromosomal numbers and translocations, all now detectable once Flemming’s stars and equatorial plates could be dissected and catalogued into unique numbers and types of chromosomes for each species. In this sense, Flemming was the father of modern Cytogenetics. Once you can put numbers on human chromosomes, you can recognize by G banding that some cases of chronic myelogenous leukemia (CML) and acute lymphocytic leukemia (ALL) show reciprocal translocations between chromosomes 9 and 22. Once you recognize this physical (9;22) translocation, you can figure out that the translocation juxtaposes portions of the BCR and ABL genes into a BCR-ABL fusion gene, and you can design drugs that normalize the excessive Abl tyrosine kinase activity of its fusion protein. No Flemming, no t(9;22), no BCR-ABL fusion gene, no hyperactive Abl, no Gleevec.

The challenge for us is to preserve and protect that evolutionarily conserved stepwise cell division cycle of DNA replication and chromatid segregation from cellular mutagens that can distort the delicate cellular equilibria of P53, RB, E2F, cyclins, CDKs, CDKIs, replication origin licenses, spindle microtubules, and cohesins. We should aim for the pristine anaphases of Flemming’s fire salamanders for our own cells, and we should aim for the scientific instinct to recognize “phenomena which are fundamentally and in principle alike.” Omnis cellula e cellula.
ASIP Accepting Nominations for 2013 Meritorious Awards

Nomination Deadline: December 15, 2012
Submit Nominations Online at www.asip.org/awards/

ASIP Gold-Headed Cane Award
The ASIP Gold-Headed Cane Award is presented in recognition of long-term contributions to pathology, including meritorious research, outstanding teaching, general excellence in the field and leadership in pathology. Nominations for the award require: 1) the candidate's curriculum vitae including bibliography; and 2) three letters of recommendation, including at least two from ASIP members. Awardees will receive a mahogany cane topped with a 14 karat gold head and engraved band at the ASIP Annual Meeting.

ASIP Rous-Whipple Award
The ASIP Rous-Whipple Award is presented to a senior scientist with a distinguished career in research who has advanced the understanding of disease and has continued productivity at the time of this award. The Meritorious Awards Committee will consider the published record of peer-reviewed research and overall impact of the science, mentorship, and participation of the candidate and protégés in ASIP scientific meetings. Awardees will receive an honorarium and a plaque and will present a lecture at the ASIP Annual Meeting that will form the basis of a publication in The American Journal of Pathology. There is no age eligibility requirement for this award; however, prior experience suggests that most successful awardees will be 50+ years old at the time of nomination. Nominations for the award require: 1) three letters of recommendation, including at least two from ASIP members; 2) the candidate's curriculum vitae including bibliography; and 3) ASIP membership in good standing for at least five years prior to nomination.

ASIP Outstanding Investigator Award
This prestigious award (formerly the ASIP Amgen Outstanding Investigator Award from 2004-2008) recognizes mid-career investigators with demonstrated excellence in research in experimental pathology. Awardees will receive an honorarium and a plaque at the ASIP Annual Meeting and will present a lecture at the ASIP Annual Meeting that will form the basis of a publication in The American Journal of Pathology, which will be peer reviewed. Please note that the lecture is part of the CME content of the annual meeting. The Meritorious Awards Committee will consider the published record of peer-reviewed research and overall impact of the science, mentorship, and participation of the candidate and protégés in ASIP scientific meetings. Awardees will receive an honorarium and a plaque and will present a lecture at the ASIP Annual Meeting that will form the basis of a publication in The American Journal of Pathology. Nominations for the award require: 1) three letters of recommendation, including at least two from ASIP members; 2) the candidate's curriculum vitae including bibliography; and 3) ASIP membership in good standing for at least five years prior to nomination.

ASIP Robbins Distinguished Educator Award
Provided through the generous support of Elsevier
The ASIP Robbins Distinguished Educator Award recognizes individuals whose contributions to education in pathology have had a manifest impact at a regional, national, or international level. Examples of meritorious contributions include, but are not limited to:

- Design of innovative or improved educational platforms, curricula, or training programs
- Leadership in strategic planning or administration of educational initiatives
- Development of widely disseminated educational materials, such as textbooks, laboratory manuals, and software
- Development of training/education in investigative pathology at the undergraduate, graduate and post-graduate levels
- Documented achievements in mentoring, e.g., junior faculty, students, or postdoctoral research or clinical fellows

Awardees will receive an honorarium and a plaque that will be presented at the ASIP Annual Business Meeting. Nominations for the award require: 1) three letters of recommendation, including at least two from members of the Society; 2) the candidate's curriculum vitae including bibliography, and 3) ASIP membership in good standing for at least five years. Evidence of exemplary contributions to education in pathology must be explicitly delineated in the nomination package.

ASIP Cotran Early Career Investigator Award
Provided through the generous support of Elsevier
The ASIP Cotran Early Career Investigator Award recognizes early career investigators with demonstrated excellence as an investigator who have recently established independence and a research focus leading to an improved understanding of the conceptual basis of disease. The award is named in honor of Dr. Ramzi Cotran. Awardees will receive an honorarium and a plaque at the ASIP Annual Business Meeting and will present a lecture at the ASIP Annual Meeting that will form the basis of a publication in The American Journal of Pathology. Please note that the lecture is part of the CME content of the annual meeting. IMPORTANT: There is no age eligibility requirement for this award; however, awardees will be several years beyond the initial faculty appointment and will have received extramural grant support as a principal investigator (or equivalent) beyond the level of a career development award and should have a non-tenured faculty appointment (or equivalent) at the time of nomination. Nominations for the 2013 award require: 1) letters from two members of the Society describing the basis for recommendation; 2) the candidate's curriculum vitae including bibliography; and 3) ASIP membership in good standing for at least twelve months.

Young Scientist Leadership Award
Provided through the generous support of the ASIP - A.D. Sobel Education Fund
The ASIP Young Scientist Leadership Award (formerly the ASIP Excellence in Science Award) recognizes outstanding and sustained achievements at the earliest stages of a career in biomedical research. Accomplishments should include volunteered service to the ASIP and scientific publications and presentations. At the time of nomination, awardees must have engaged in no more than 5 years of postgraduate research since receiving the PhD, MD, or equivalent degree and should not yet have a faculty appointment. Awardees will receive an honorarium and a plaque that will be presented at the ASIP Annual Business Meeting and will present a paper based on their award-winning work. Please note that the lecture is part of the CME content of the annual meeting. Nominations for the 2013 award require: 1) three letters of recommendation, including at least two from members of the Society; 2) the candidate's curriculum vitae including bibliography, and 3) ASIP membership in good standing for at least two years (as a trainee or regular member).
ASIP 2013 Annual Meeting & Centennial Celebration at Experimental Biology

SAVE THE DATE!
ASIP 2013 Annual Meeting & Centennial Celebration at Experimental Biology
April 20-24, 2013
Boston, MA (USA)

DEADLINES!
Abstract Submission: November 8, 2012
Trainee Award Applications: November 15, 2012
Early Registration: February 22, 2013

Don’t Forget to Register for These Special Sessions and Events! (Register for the following events when you register for the meeting!)
- Centennial Celebration Reception
- Career Development Workshop & Breakfast, Non-Traditional Career Opportunities in Pathology
- 13th Annual Career Development Program and Lunch, Dancing with Journals: A Guide to Submission and Review
- 13th Annual Workshop on Graduate Education in Pathology: Careers in Biotechnology
- Lunch & Learn: Collaborating with Industry: An Academic Faustian Bargain?

GUEST SOCIETIES
- American College of Veterinary Pathologists (ACVP)
- American Society for Matrix Biology (ASMB)
- The Histochemical Society (HCS)
- International Society for Analytical & The Histochemical Society (HCS)
- American Society for Matrix Biology (ASMB)
- Società Italiana di Patologia e Medicina Traslazionale/Italian Society of Pathology & Translational Medicine (SIPMetaT)
- Society for Cardiovascular Pathology (SCVP)

www.asip.org/2013

Preliminary Program
- Course: Pathobiology for Basic Scientists: Neoplasia - When Good Cells Go Bad
  Chairs: William B. Coleman & Gregory J. Tsoungalis
  Sponsored by the ASIP Education Committee
- Molecular & Cellular Basis of Disease: Biology of Inflammation & Non TLR Pattern Recognition Receptors
  Chairs: Andrew Neish, Aasma Nusrat & Themis Kyriakides
- 13th Annual Workshop on Graduation Education in Pathology - Careers in Biotechnology
  Chairs: Daniel Remick & Jonathan Reitnauer
  Sponsored by the ASIP Education Committee
- Highlights: Graduate Student Research in Pathology
  Chair: Titus A. Reeves
  Sponsored by the ASIP Committee for Career Development, Women & Minorities
- Histological Image Analysis
  Chairs: John Tomaszewski & Richard Levenson
- Career Development Workshop & Breakfast: Non-Traditional Career Opportunities in Pathology
  Chairs: Christ Kolarcik & Gary Pasternack
  Sponsored by the ASIP Committee for Career Development, Women & Minorities
- ASIP COTRAN EARLY CAREER INVESTIGATOR AWARD LECTURE: Endoplasmic Reticulum Stress in Disease Pathogenesis
  Award Recipient: JONATHAN H. LIN
- Molecular & Cellular Basis of Disease: Stem Cells, Neoplasia, Development, Wound Healing (Part 1)
  Chairs: Peter Shepherd & Clayton Wiley
- Extracellular Vesicles, miRNA & Vascular Cell Communication
  Chairs: Xandra Breakefield & Bill Lusinskas
  Chairs: Diane Bielemann & George Perry
  Sponsored by the ASIP Committee for Career Development, Women & Minorities & the American Association of Anatomists
- Molecular & Cellular Basis of Disease: Stem Cells, Wound Healing, Regeneration & Cancer (Part 2)
  Chairs: Alberto Guino & S. Paul Monga
- Blood Vessel Club™: microRNAs in the Regulation of Blood Vessel Function
  Chairs: William Sessa & Themis Kyriakides
- Cell Injury Workshop: Cell Death & Survival
  Chairs: Cecelia Yates-Binder & C. Sheikzad Ghandi
  Sponsored by the ASIP Cell Injury Scientific Interest Group
  Chairs: Michael Oglesbee & Tim LaBranche
  Sponsored by ASIP & the American College of Veterinary Pathologists
- ASIP OUTSTANDING INVESTIGATOR AWARD LECTURE: Targeting the Epigenome for Improved Treatment of Triple-Negative Breast Cancer
  Award Recipient: WILLIAM B. COLEMAN
- Liver Pathobiology Symposium: Flirtin’ with Disaster: Liver Injury, Inflammation & the Fast Lane to HCC
  Chairs: Arlin Rogers & S. Paul Monga
  Sponsored by the ASIP Liver Pathobiology Scientific Interest Group
- Emerging Infections
  Chairs: Shenz Zaki & Dan Milner
- Scientific Sleuthing of Human Disease for High School Teachers
  Chair: Kari Rejkal-Bowen
  Sponsored by the ASIP Education Committee
- Presidential Symposium: HPV: Remaining Challenges in Translational Success Story
  Chair: Elizabeth Unger
- Angiogenesis in Physiology & Pathology
  Chairs: Diane Bielemann & Patricio A. Damore
- ASIP EXCELLENCE IN SCIENCE AWARD LECTURE: Dynamic Properties of Tight Junction Structure & Function
  Award Recipient: CHRISTOPHER R. WEBER
- JHC Plenary Lecture
  Chair: John R. Couchman
  Sponsored by The Histochemical Society
- Molecular & Cellular Basis of Disease: Stem Cells, Wound Healing, Regeneration & Cancer (Part 2)
  Chairs: Albert Guino & S. Paul Monga
- SCVP Symposium: Inflammatory Myocardial Disease/Mycarditis
  Chair: Andrew H. Lichtman & L. Maximilian Buja
  Sponsored by ASIP & the Society for Cardiovascular Pathology
- HCS Symposium: Proteoglycans - Key Regulators of the Immune Response to Cancer & Infectious Agents
  Chairs: Charles W. Frevert & Nancy Sawtell
  Sponsored by The Histochemical Society
- ASIP ROUS-WHIPPLE AWARD LECTURE: How Endothelial Cells Regulate Transmigration of Leukocytes in the Inflammatory Response
  Award Recipient: WILLIAM A. MULLER
- A Thousand Ways to Die: Cell Death Stories
  Chairs: Andrea I. Ivanov & Kim McCull
- Breast Cancer Workshop: HER2+ Breast Cancer: Biology, Diagnostics & Therapeutics
  Chairs: Ashley G. Rivenbark & William B. Coleman
  Sponsored by the ASIP Breast Cancer Scientific Interest Group
- Biomechanical Forces & the Pathobiology of the Vascular Wall
  Chairs: Guillermo Garcia-Cardenas & Bill Lusinskas
- Innate Immunity in Lung Pathology
  Chairs: Hongwei Gao & Nick Lukacs
- Lunch & Learn: Collaborating with Industry: An Academic Faustian Bargain?
  Sponsored by the ASIP Education Committee
- Scientific Interest Group Special Sessions & Networking Events
  Visit www.asip.org/2013 for details!

ASIP will host its Centennial Celebration at the ASIP 2013 Annual Meeting at Experimental Biology. Keep an eye out for your invitation to attend special Centennial events!
In 2013, the American Society for Investigative Pathology (ASIP) will celebrate the centennial of the formation of one of its two predecessor societies, the American Society for Experimental Pathology (ASEP).

ASIP traces its earliest beginnings to the Boston Society of Medical Sciences, established in 1896 by a group of faculty from Harvard Medical School. In 1901 the American Association of Pathologists and Bacteriologists (AAPB) was established.

ASEP was formed in 1913 to provide a pathology arm to the newly established Federation of American Societies for Experimental Biology (FASEB). In 1976, the ASEP merged with the AAPB to become the American Association of Pathologists, which in 1992 was re-incorporated as the American Society for Investigative Pathology.

Centennial observances will include:
- ASIP Centennial Celebration Reception and Dinner, Monday, April 22, 2013 during the ASIP 2013 Annual Meeting (Tickets are required. The deadline to purchase tickets is March 1, 2013);
- Publication of a historical archive of major scientific accomplishments of the membership;
- Special print compilation of select articles published in *The American Journal of Pathology*, to be available at the ASIP 2013 Annual Meeting.

The Centennial Fund has been established to support these programs. ASIP is a non-profit educational 501(c)(3) organization. Your contribution to the Centennial Fund is tax-deductible under current IRS regulations. Please consult your tax accountant for deductibility.

All donors will be recognized in signage and promotion of the Centennial Celebration. Individuals who provide $500 in support will receive one (1) complimentary ticket to the ASIP Centennial Celebration Reception and Dinner to be held at the ASIP 2013 Annual Meeting at Experimental Biology. Individuals who provide $1,000 will receive two (2) complimentary tickets; Individuals contributing $2,500 will receive six (6) complimentary tickets; and individuals contributing $5,000 will receive twelve (12) tickets.

Corporations and academic departments interested in supporting the ASIP Centennial Fund should contact Laurie Menser, Director of Marketing and Development, lmenser@asip.org or Tel: 301-634-7908.
Scientific Interest Group (SIG) News

Vascular Pathobiology and Mucosal Pathobiology SIGs to Merge

We are pleased to announce the formation of a new ASIP Special Interest Group (SIG) called VAMP, which translates to "Vascular And Mucosal Pathobiology" by the merging of the existing SIGs, Mucosal Pathobiology and Vascular Pathobiology. Our mission is to promote the advancement and dissemination of basic and translational knowledge in the field of epithelial and endothelial cell biology, mucosal inflammation, and leukocyte biology. Tissue injury in response to environmental and exogenous challenges is associated with an inflammatory response that often occurs at biological interfaces, such as epithelial mucosa in the intestinal, respiratory, and urogenital tract, or endothelia in organs and the peripheral vasculature. Leukocyte trafficking during the inflammatory response at the interface presents a special problem because these tissues must maintain, or restore, vital physiological functions inherent to the cell types that line biologic surfaces.

The goal of the VAMP Special Interest Group is to bring together principal investigators, fellows, and students who share a passion for this topic. It will be a great opportunity to promote among our members a web location for common, in depth scientific discussions of ongoing work and published work or chit-chat, share protocols and methods, and as an incentive for new collaborations. At the 2013 meeting in Boston’s Convention Center, there will be several Symposia related to endothelial and epithelial cell biology and inflammation (Please view complete information at www.asip.org/meetings/2013/). The social networking session will be hosted on Tuesday, April 23, 2013, at 5:30 – 7:30pm.

All current members of the Vascular Pathobiology SIG and the Mucosal Pathobiology SIG will automatically be members of VAMP. If you are interested in becoming an active participant of VAMP, please email Constanza Gonzalez, ASIP’s new dedicated Project Coordinator for SIGs, at cgonzalez@asip.org.

Cell Injury SIG (Die Schaden Klub)

We are pleased to announce that we have begun to plan our 2nd annual program events for the ASIP 2013 Annual Meeting at Experimental Biology 2013. Our sponsored minisymposium during the meeting is Cell Injury: Cell Death and Survival on Sunday April 21, (2-5pm). The featured speakers are:

Debra Laskin, Rutgers University - Macrophages and Tissue Injury: Agents of Defense or Destruction
Charleen Chu, University of Pittsburgh - Mitophagy in Neurodegeneration: Loading the Banquet Table
Zhen Yan, University of Virginia - Impact of Exercise Training in Ameliorating Lipid Overload-Induced Mitochondrial Damage
Shekhar Ghandi, University of Pittsburgh - Two Faces of Nonparenchymal Cells in Regulation of Hepatocyte Survival

On the evening of Tuesday April 23, 2013, there will be a sponsored social event (Die Schaden Klub) that will include a poster session.

If you are interested in having your work considered for presentation for the poster session on Tuesday evening, please submit an abstract to EB 2013 under the ASIP topic categories for cell death and injury. Please contact Cecelia C. Yates-Binder (cey4@pitt.edu) if you are interested in participating in this group and/or have any questions regarding the program.

Cecelia C. Yates-Binder, PhD and Monte S. Willis, MD, PhD Chair and Co-Chair, Cell Injury Special Interest group

Liver Pathobiology SIG

Judging from the many positive comments and compliments we received since the ASIP 2012 Annual Meeting at EB, it seems that the ASIP liver sessions at EB2012 were a huge success!

One of the highlights of the meeting was the full-day session devoted entirely to hepatic research entitled "Molecular and Cellular Basis of Disease: Liver Pathology." There were lively discussions on the topics of hepatic stem cells and signaling pathways responsible for their activation, activation of myofibroblasts in liver fibrosis, and the relative pleiotropism of oncogenes and tumor suppressors in mouse hepatocarcinogenesis. Of course many canonical topics, including liver regeneration and development, were also covered during this session.

Club Hepatomania™, our annual social and educational networking session, met on Sunday evening where all liver posters were presented. It was a popular event, attracting members of ASIP as well as other societies, and liver scientists were seen engaged in enthusiastic and enlightening scientific discussions. Please note: In 2013, Club Hepatomania™ will meet on Tuesday evening, April 23.

Many additional sessions relevant to liver biology were also well attended and included symposia on IPS cells and the role of myofibroblasts in health and disease.

We are already planning another excellent liver program for EB2013 in Boston, which is the centennial year for ASIP. Seminars will include topics such as liver injury, regeneration and cancer and stem cell biology, and we hope to see you all there. Please feel free to suggest additional topics for upcoming meetings.

Thank you all for your participation, and for making this year’s liver program at ASIP a success. Your continued support will ensure that liver research will remain a prominent feature of future annual ASIP meetings.

ASIP Trainee Award Application Information & Deadlines

The following awards require submission of an abstract to the 2013 Experimental Biology Meeting. For details on abstract submission, visit: www.asip.org/meetings/2013/

Abstract Submission Deadline: November 8, 2012
Award Application Deadline: November 15, 2012 - To apply, go to: www.asip.org/awards

- ASIP Experimental Pathologist-in-Training (EPIT) Award
- ASIP Experimental Pathologist-in-Graduate Training Award (EPIGT)

The EPIT is a prestigious award presented to an ASIP trainee member who is a postdoctoral fellow (including research and clinical fellows).

The EPIGT is a prestigious award presented to an ASIP trainee member who is a graduate student in a PhD training program, MD/PhD training program or MD training program or equivalent.

These awards are presented to trainees who have excelled in investigative efforts in studying mechanisms of disease, as evidenced by an abstract submission to the ASIP annual meeting, an extended research report, and a letter of recommendation.

Continued on page 9 - Trainee Awards
Trainee Awards
(Continued from page 8)

attesting to the candidate’s role in the work and potential as a biomedical research investigator. The awards each include: a certificate of achievement for the winning abstract presented at the ASIP Annual Meeting Awards Presentation at the Experimental Biology Meeting, a $1,500 honorarium, and complimentary meeting registration.

Candidates for the EPIT and EPIGT Awards are also considered for ASIP Merit Awards ($1,250 plus complimentary registration). Each applicant must be a trainee member of ASIP. Prior recipients of the EPIT, EPIGT, and Merit Awards may reapply if the work submitted is clearly distinct from the work previously submitted for their winning application (not just a continuation of the same project). In such cases, the applicants should submit a copy of the previous winning application along with the new application.

ASIP Trainee Travel Awards
To promote the entry of young scientists into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in the Annual Meeting, the American Society for Investigative Pathology is offering a limited number of Trainee Travel Awards of $750 each to offset travel expenses to the Experimental Biology Meeting. Some of these awards are funded by the A.D. Sobel-ASIP Education Fund. The ASIP Program Committee will select the recipients based on the scientific abstracts. Abstracts will be selected for presentation in either poster sessions or in minisymposia. These abstracts need not be submitted strictly to ASIP categories.

Minority Trainee Travel Awards
The FASEB Maximizing Access to Research Careers (MARC) Program has awarded ASIP funding to promote the entry of under-represented minority scientists and minority-serving institutions into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in the Annual Meeting. Successful applicants will be reimbursed up to $1,650 in travel costs associated with conference attendance and participation. These funds are meant to defray expenses for lodging, air, ground transportation, and meeting registration.

The ASIP Program Committee will select the recipients based on the scientific abstracts. Abstracts will be selected for presentation in either poster sessions or in minisymposia (oral sessions). These abstracts must contain data based on the use of histochemical techniques.

The ASIP Minority Trainee Travel Awards are funded by a grant from the National Institute of General Medical Sciences, National Institutes of Health [FASEB MARC Program: T36-GM08059-30].

HCS Trainee Travel Award
The Histochemical Society is sponsoring a NEW trainee travel award for ASIP and/or Histochemical Society trainee members. The abstracts must contain data based on the use of histochemical techniques.

ICPI Trainee Travel Awards
ASIP Trainees who submit an abstract are eligible to apply to the Intersociety Council for Pathology Information (ICPI) for $750 travel awards to attend the ASIP Annual Meeting at EB 2013. Applications are available online at www.pathologytraining.org
ISBER is pleased to announce the launch of the second round of the ISBER Biorepository Proficiency Testing (PT) Program. Proficiency testing is the best means of evaluating and maintaining the accuracy of your laboratory's results!

ISBER’s Biorepository Proficiency Testing Program was developed in collaboration with the Integrated Biobank of Luxembourg (IBBL). The PT program is designed to:

- allow biorepositories to assess the accuracy of their quality control assays and their characterization of biospecimens
- compare results with those obtained in other laboratories around the world
- allow biorepositories to identify testing problems that may be related to individual staff performance or calibration of instrumentation used in biospecimen quality control
- provide an External Quality Assessment (EQA) tool and guidance to biorepositories and laboratories testing biospecimens with the ultimate goal to support their quality control activities and to offer organisations who are seeking compliance with ISO 17025, CLIA, or equivalent the possibility to fulfil the respective normative requirements.

More Information:  
www.isber.org/proficiency_testing/index.cfm

The International Society for Biological and Environmental Repositories (ISBER) is a Division of ASIP
American Society for Investigative Pathology
Investigating the Pathogenesis of Disease

MEMBERSHIP APPLICATION

MEMBER BENEFITS

- Scientific Meetings & Courses with reduced registration fees.
- The American Journal of Pathology (AJP) Published monthly in print and online. Members receive online access with an option to add a print subscription at a substantially reduced rate. ASIP Regular member corresponding authors at the time of manuscript submission receive a FREE COLOR FIGURE when publishing in AJP; a $550 value!
- The Journal of Molecular Diagnostics (JMD) Published six times/year in print and online. Members receive online access with an option to add a print subscription at a substantially reduced rate. ASIP Regular member corresponding authors at the time of manuscript submission receive a FREE COLOR FIGURE when publishing in JMD, a $550 value!
- Peer Network
- Awards and Honors
- ASIP Journal CME Programs with reduced registration fees
- ASIP Website: www.asip.org PathologyJobsToday.org, career opportunities & job listings
- ASIP Pathways, the Society newsletter, features government affairs reports on current issues effecting biomedical researchers, as well as news from Committees, ASIP’s Division and members, and other articles of interest
- FASEB Directory of Members ASIP Member names and contact information included in the online FASEB Directory of Members, including over 100,000 members of the 26 FASEB member-societies (www.faseb.org)
- Reduced subscription rates and prices for The FASEB Journal, Annual Reviews, and select Elsevier publications

PERSONAL PROFILE

Please print or type:

Candidate Name ________________________
Position ________________________________
Institution ______________________________
Department _____________________________
Address ______________________________________
City, State, Zip or Postal Code _______________
Country ________________________________
Telephone _______________________________
Fax _______________________________________
Email ____________________________________
Birthdate ________________________________
Degrees:
□ MD □ PhD □ DVM □ Other
Gender (Optional Information):
□ Male □ Female

Scientific Interest Groups
Please check all that apply.
□ Analytical and Molecular Morphology
□ Biophysical Pathology
□ Breast Cancer
□ Cell Injury
□ Gene Expression
□ Inflammation/Immunopathology
□ Informatics
□ Liver Pathobiology
□ Molecular Markers of Disease
□ Neoplasia/Growth Regulation
□ Neuropathology
□ Pulmonary Pathobiology
□ Tissue Banking
□ Vascular and Mucosal Pathobiology
□ Veterinary Pathology

2013 ANNUAL DUES

Regular Membership
□ $195 (Includes Online AJP & JMD)
Associate Membership
□ $85 (Includes Online AJP & JMD)
Emeritus Membership
□ $25 (Includes Online AJP & JMD)
Post-doctoral Trainee Membership
□ $50 (Includes Online AJP & JMD)
Pre-doctoral Trainee Membership
□ $50 (Includes Online AJP & JMD)
Undergraduate Trainee Membership
□ $25 (Includes Online AJP & JMD)

Trainee Applicants: Please have your supervisor or head of educational unit complete the following:
I verify that this applicant is a student, fellow, or resident in my training program.
________________________
Name (Please print)
________________________
Email (Please print)

Signature

Upgrade Journal Subscriptions to Include Print
American Journal of Pathology (AJP)
□ $50 - Print Upgrade (USA)
□ $125 - Print Upgrade (Intl)
Journal for Molecular Diagnostics (JMD)
□ $40 - Print Upgrade (USA & Intl)

Curriculum Vitae (CV)
□ I will mail, fax, or email my CV to the ASIP Office at the address below. I understand that my application for membership will NOT be processed without my CV.

Payment
□ Check - Make payable to ASIP
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Referral
The following ASIP Member referred me for membership in ASIP

________________________
Name (please print)

*Referral is optional and is not required for application processing.

For each NEW Regular Member recruited by an ASIP member before September 1, 2013, the current member will receive a $25 reduction in their 2014 dues up to the total amount of the annual membership fee.

To participate, download the special application at www.asip.org/refer and type YOUR name in the yellow box. Print as many copies as you need to pass out to your colleagues...

OR...

Detach this application along the dotted line, write YOUR name in the yellow box in the right column, and pass this application to a colleague!

IMPORTANT!
Your name must be entered in the yellow referral box for you to receive credit for the application.

American Society for Investigative Pathology
9850 Rockville Pike, Bethesda, MD 20814-3993 (USA)
Phone: (301) 634-7130, Fax: (301)-634-7990, Email: asip@asip.org
Your membership benefits will commence upon approval of your application.
Important Deadlines!

**ASIP Call for Nominations for 2013 Election - November 1, 2012**
**ASIP 2013 Annual Meeting**
**Abstract Submission Deadline - November 8, 2012**
**Trainee Award Applications Deadline - November 15, 2012**
**Early (Reduced) Registration Deadline - February 22, 2013**
**Hotel Reservations Deadline - March 22, 2013**

Don’t Forget to Register for These Special Sessions!
(Register for these events when you register for the meeting!)
- Career Development Workshop and Breakfast - Non-Traditional Career Opportunities in Pathology
- 13th Annual Career Development Program and Lunch - Dancing with Journals: A Guide to Submission and Review
- 13th Annual Workshop on Graduate Education in Pathology: Careers in Biotechnology
- Lunch & Learn: Collaborating with Industry: An Academic Faustian Bargain?

**ASIP Centennial Celebration Dinner**
(Registration form on Page 9 - Deadline: March 1, 2013)

**Registration Open for ASIP 2012 Journal CME Programs:**
- ASIP Semiannual 2012/2 AJP CME Program in Pathogenesis
- ASIP Semiannual 2012/2 JMD CME Program in Molecular Diagnostics

American Society for Investigative Pathology

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**ASIP Division**
International Society for Biological and Environmental Repositories (ISBER)
www.isber.org

ASIP Mourns the Loss of Former Members:

**Nelson Fausto, MD (1937 - 2012)**
Dr. Fausto graduated from medical school in Sao Paulo, Brazil in the 1960s. After serving as the founding chair of the Pathology Department at Brown University, he moved to Seattle and served as the chair of the University of Washington Pathology Department for 18 years. He was best known for his seminal research on the regenerative power of the liver. Dr. Fausto served as the Editor-in-Chief of *The American Journal of Pathology* from 1992-2000, and as president of ASIP in 2004. He was awarded the ASIP Gold-Headed Cane Award in 2010 and the APC Distinguished Service Award in 2012.

**Daniel S. Friend, MD (1933 - 2012)**
Dr. Friend served as chair of the UCSF Medical Center Department of Pathology until 1993. He moved to the Department of Pathology and Immunology at Brigham and Women’s Hospital, where he conducted research until his retirement in 2006. Dr. Friend is best recognized for his work in developing standards in the field of electron microscopy.

**Jeffrey A. Kant, MD, PhD (1946 - 2012)**
Dr. Kant was the Director of the Division of Molecular Diagnostics at the Department of Pathology at the University of Pittsburgh Medical Center. Although known primarily for his leadership roles in the Association for Molecular Pathology and the College of American Pathologists, he was also an active member of ASIP since 1996. Since 1998, Dr. Kant and Dr. Linda McManus were alternating Chairs of the ASIP-AMP Joint Journal (of Molecular Diagnostics) Oversight Committee and he was completing his third term as Chair this year.

**Leopold G. Koss, MD, FIAC(hon) (1920 - 2012)**
From 1973 until his retirement in the 1990s, Dr. Koss was Professor and Chairman in the Department of Pathology, Montefiore Campus of Albert Einstein College of Medicine in Bronx, New York. His text book, *Diagnostic Cytology and Its Histopathologic Bases* is recognized as the standard reference on cytopathology around the world. Dr. Koss received the prestigious ASIP Gold-Headed Cane Award in 1993 and the APC Distinguished Service Award in 2002.