This is an interesting, important and challenging time in the history of the ASIP. All voluntary organizations, to continue to thrive, must be responsive to the interests and needs of their members, while also being aware of, and engaged in, the greater context in which such organizations and their members exist.

In his message in the ASIP Bulletin of February, 2005, Nelson Fausto defined the main challenge facing the ASIP as: “……to give ASIP a clear identity and reason to exist at a time of sweeping changes in research, publishing and education.”

Implicitly, Nelson’s comment acknowledged the important relationship between the ASIP as an organization founded to serve its members and the larger external environment within which our organization, and its members, pursue their interests. The success of the ASIP, then, must reflect both its ability to work internally (e.g., to identify and respond to the interests and needs of its members) and to work externally (e.g., to help to make that environment more favorable to the success of the society and its members).

Looking “internally,” ASIP is having an exceptionally good year. This in large measure reflects the effective investment of thought, time and devoted effort by the many individuals who support and sustain the work of our society. For example, the ASIP Council recently received the news, from Executive Officer, Mark Sobel, that the society not only ended last year in the black for the second year in a row (despite having conservatively projected a small deficit) but is projecting a small budget surplus for this year. The ASIP thus has achieved one goal defined by its long-term planning committee (i.e., moving to a budget that shows revenues exceeding expenses), two years ahead of schedule. This welcome result reflects a number of factors, all of which in turn reflect the hard and effective work of our staff, the ASIP leadership, and those who contributed to the relevant ASIP committees.

Notably, The American Journal of Pathology, under the editorial leadership of Jay McDonald, and with the help of the Publications Committee (chaired by Steven Kunkel), the AJP team of Associate Editors and the journal’s staff, had a very good year, whether judged by publishing or financial metrics. So did our other journal, The Journal of Molecular Diagnostics, edited by Karen Kaul and published in cooperation with the Association for Molecular Pathology. The 2005 Annual Meeting, through the efforts of the Program Committee (chaired by Martha Furie), was also a programmatic and financial success, continuing a recent trend of
increasing both attendance by ASIP members and abstract submissions, as well as revenues. And, under the leadership of our Executive Officer, Mark Sobel, and with the help of the Finance Committee (chaired by Stan Cohen), the ASIP continued in its tradition of prudent and conservative fiscal management. The society’s investments also had a good year.

In light of the very favorable financial position of the society, and in accord with the ASIP’s plans to partner with organizations with complementary interests and values by inviting such organizations to join the ASIP as Divisions, the Finance Committee recently recommended to Council that the ASIP make significant investments in the growth and development of our two Divisions: API (Association for Pathology Informatics, which became a Division in 2004) and ISBER (International Society for Biological and Environmental Repositories, which joined as a Division in May, 2005). An opportunity to join ASIP as a Division also has been extended to one of our managed societies, NAVBO (North American Vascular Biology Organization, which will be meeting with ASIP at the 2006 Experimental Biology meeting) and ASIP is in communication with other groups with an interest in closer collaboration.

In terms of the future of ASIP and its efforts to partner with other organizations to work for common goals, I am very pleased about the decisions of API and ISBER to join ASIP as Divisions and look forward to welcoming additional organizations into divisional status within ASIP. It is also very gratifying to note the increasing interest among our colleagues outside of the United States and Canada in becoming members of ASIP. I certainly hope that this trend continues and that it will continue to be encouraged by our society.

In the realm of education, under the leadership and direction of Abul Abbas and Rick Mitchell, and with the support of the Education Committee (chaired by Linda McManus), the ASIP is launching this year a new summer course: “Molecular Mechanisms of Human Disease”, which will be offered July 12-16 in San Diego. This course already has generated considerable interest and the sponsorship of biotech and biopharma corporations, which increasingly recognize a need for such training among their scientists. (Please see the ad on page 12 and take advantage of the early registration discount by signing up by April 10).

In addition to supporting ASIP’s Divisions, the Council has allocated increased resources for career development and to support trainees in their research careers. This year, in collaboration with the FASEB Minority Access to Research Careers (MARC) program, ASIP awarded four minority trainee travel awards for participation in our annual meeting at EB2006. Minority trainee travel awards will also be available for the summer course in San Diego. In addition, ASIP doubled the number of trainee travel awards to EB2006, and tripled the number of trainee Merit Awards. Our Executive Officer, Mark Sobel, recently became a member of the FASEB MARC Advisory Board, joining fellow ASIP member Nancy Thompson, and is working with that group to enhance programs for minority access to research careers. The Committee for Career Development, Women and Minorities, under the new leadership of Dani Zander and Tara Sander, will present a workshop on grant funding, as well as a mentoring program and luncheon on networking and professional visibility (featuring former ASIP president and Gold-Headed Cane awardee Dorothy (Dee) Bainton), at the EB2006 meeting in San Francisco.

Finally, in addition to the events mentioned above, the prospects for a scientifically and socially successful annual meeting appear to be extremely favorable. As already noted, NAVBO and ASIP are presenting a joint annual meeting at EB2006. In addition, ASIP will be hosting guest societies at EB2006, including the American College of Veterinary Pathologists, the American Society for Matrix Biology, the International Society for Analytical and Molecular Morphology, and the Pulmonary Pathology Society, as well as our Divisions: API and ISBER. And in 2007, the American Association of Neuropathologists and the Histochemical Society will present a joint annual meeting with ASIP.

So, from an “internal” perspective, the ASIP seems to be doing very well. That is the good news. However, the constellation of “external” factors that can have significant impact on our society and its missions in the longer term have moved well beyond what can be considered simply “challenging.”

ASIP and other scientific organizations now are faced with a real paradox: while the promise for rapid and significant advances in basic, translational and clinical research has never been greater, the material support that represents a key requirement for realizing such progress has never (in recent memory, at least) been more threatened. Not only are funding levels (as reflected in “paylines”) for NIH proposals already extremely tight, but they are getting worse. And there is no obvious light at the end of this tunnel.

(Continued on page 3)
Indeed, those following the discussions (and votes) in Washington surely have noticed that the NIH budget has actually declined and that further reductions are being openly discussed (as well as the usual talk about possible increases). In parallel, more and more of the NIH budget for extramural research is now “targeted” in some way. While there is no doubt that compelling arguments can be made in favor of many of the targets of such funding, in a time of shrinking total support for NIH, such “directed funding” will necessarily diminish funds available for RO1-type investigator-initiated proposals.

In addition, a number of forces (including possible significant reductions in the level of Medicare reimbursement for the work of surgical pathologists) are putting significant pressures on sources of revenue that traditionally have been used by academic departments of pathology to supplement extramural grant support in sustaining the research programs of their faculty.

Therefore, while ASIP must continue to look internally, in order to better understand and serve the needs of its members, the ASIP and its members individually must increasingly add their voices to those of others who wish to see funding for biomedical research and education not only continue but substantially increase. Without such efforts, we may well not be able to realize the promise of the new information, understanding and technical approaches that have been developed over the many years of growing NIH budgets.

Leo Furcht, President-elect of FASEB, along with Avrum Gotlieb and Peter Ward, who represent ASIP on the FASEB Board, add the voice of our society to those of our sister organizations in FASEB in support of responsible levels of funding for biomedical research and education. Let’s hope that such “organized” efforts will help. But this is a time when the funding of good science, and of the training of biomedical investigators, cannot have too many advocates. Please consider getting involved in this effort personally.

In closing, let me extend a cordial invitation to the 2006 ASIP Annual Meeting in San Francisco, the Presidential Symposium (Monday, April 3), and, especially, the Business Meeting and Awards Reception. In addition to good fellowship and refreshments, the Business Meeting and Reception will provide members who may not yet have expressed an interest in becoming more involved in the life of the ASIP to do so. While the ASIP may indeed be “more than the sum of its parts”, and currently is thriving, it will only be as vibrant and relevant as its members wish it to be and make it—by offering their participation, ideas, effort, and support.

I hope to see you in San Francisco at the Annual Meeting.

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### 2006 ASIP ELECTION RESULTS

**Congratulations to the following, who will take office July 1, 2006**

Linda M. McManus  Vice President
Kathleen R. Cho  Councilor
Martha B. Furie  Councilor
Michelle Bendeck  Meritorious Awards Committee
Gary R. Pasternack  Meritorious Awards Committee
Leo T. Furcht  Nominating Committee
Steven L. Kunkel  Nominating Committee

**Current Council (2005-2006)**

**Officers:**
Stephen J. Galli, M.D.,  President
Peter M. Howley, M.D.,  President-elect
Mark L. Tykocinski, M.D.,  Vice President
Nelson Fausto, M.D.,  Past President
Stanley Cohen, M.D.,  Secretary-Treasurer and Finance Committee Chair
Martha B. Furie, Ph.D.,  Program Committee Chair
Charles A. Parkos, MD, Ph.D.,  Program Committee Chair-elect

**Councilors:**
William B. Coleman, Ph.D.  Leo T. Furcht, M.D.
Mary J. C. Hendrix, Ph.D.  Steven L. Kunkel, Ph.D.
Jon S. Morrow, M.D., Ph.D.  Dani S. Zander, M.D.

**Division Representatives**
API:  Mark Tuthill, M.D.
ISBER:  William E. Grizzle, M.D., Ph.D.

**Committee Chairs:**
Career Development, Women and Minorities:  Dani S. Zander, M.D.
Tara L. Sander, Ph.D.
Education:  Linda M. McManus, Ph.D.
Meritorious Awards:  Peter M. Howley, M.D.
Nominating:  Nelson Fausto, M.D.
Publications:  Steven L. Kunkel, Ph.D.
ASIP Annual Meeting at Experimental Biology 2006 in San Francisco April 1-5. As you receive this newsletter, we are around four weeks away from the Annual Meeting. See the meeting highlights on page 14. Most of the ASIP scientific program and events will take place in the new Moscone West Convention Center, including the ASIP Business Meeting and Awards Presentation on Monday evening. See pages 6-10 for biographical information about Drs. Michael Lieberman (Gold-Headed Cane Award), Steven Teitelbaum (Rous-Whipple Award), James Anderson (Chugai Mentoring Award), and the two Amgen Outstanding Investigator Awardees, Jonathan Pollack and Jerrold Turner. The Awards Reception will immediately follow the ceremony, where you can chat with the other attendees, quench your thirst, and sample tasty treats.

The ASIP Office will be in the nearby Marriott Hotel (in Sierra I), along with a few special events such as the Mentoring Program and Luncheon on Sunday, the AJP Editorial Board meeting (Sunday evening), and Education Committee-sponsored programs (“Scientific Sleuthing of Human Disease for High School Teachers” on Tuesday and “Science Seekers Challenge” on Saturday that will provide a forum for prospective graduate students in pathology).

ASIP Summer Course on Molecular Mechanisms of Human Disease July 12-16. We are proud to announce a new educational offering, a 5-day summer course on Molecular Mechanisms of Human Disease, directed by Abul Abbas and Rick Mitchell, ACCME-accredited for up to 30 Category I CME credits, to take place in San Diego. Please see the announcement on page 12 for more information. The early registration deadline is April 10. A limited number of Minority Trainee Travel Awards, funded by the FASEB MARC Program, are available (see http://www.asip.org/SC06/mtta.htm).

ASIP Journal CME Programs. This January, ASIP launched two other CME programs, based on reading articles in our two journals. The ASIP Journal CME Program in Pathogenesis is based on reading articles in The American Journal of Pathology and answering sample questions in each issue. The JMD CME Program in Molecular Diagnostics is based on The Journal of Molecular Diagnostics. Each program is ACCME-accredited for 50 Category I credits. See the full announcement on page 15. Each issue of AJP and JMD includes registration information. ASIP members can register for the journal CME programs at a discount.

See Journal Managing Editor Maria Giorla Eisemann’s report on page 17 for more information about other programs that enhance our journals. In particular, I want to mention that in addition to HighWire, ASIP has now affiliated with PubMed Central to provide online journal content. A major advantage of this affiliation is that ASIP will be able to deposit accepted articles based on NIH-funded research on behalf of the authors of AJP and JMD, sparing our authors the time and inconvenience to be in compliance with the enhanced public access rule that went into effect in May of 2005. In addition, PubMed Central is in the process of scanning archived print issues of AJP so that we can provide online access to issues of the journal that were published prior to July 1998, eventually going all the way back to the first issue in 1925. I am very grateful to Gene Siegal, who provided us with thirty years’ worth of AJP, going back to 1968, to launch the archiving project.

Election Fever. ASIP regular members and Association for Pathology Informatics (API) Division members just completed their elections in February. See the boxes on page 3 (ASIP) and 7 (API) for the election results. ISBER Division elections will take place in March.

Upcoming Meetings from our Divisions. The ISBER Annual Meeting will take place in Bethesda April 30-May 3. The early registration deadline is April 1. For more information, see the announcement on page 23. API is co-sponsoring several educational sessions at various upcoming meetings, including Lab InfoTech Summit (March 1-3 in Las Vegas), Experimental Biology 2006 (Bioinformatics 101 on April 2, Sunday afternoon), and APIII (August 16-18, Vancouver).
Join the Pathology Leadership Fund. In 2004, the ASIP Council established the Pathology Leadership Fund (PLF) to promote educational and mentoring programs. Now in its third year, the PLF has supported a doubling of trainee travel awards and an expansion of Merit Awards presented to outstanding trainees based on their submitted abstracts to the annual meeting. See the box on page 9 that recognizes the contributions, dedication, and commitment of the sponsors of the PLF since its inception. If you are interested in joining the PLF, please see the information on our web site.

Public Affairs. In the past few months, ASIP has joined other societies of FASEB in a variety of public affairs initiatives that are fully explained on the FASEB website at http://opa.faseb.org/pages/PolicyIssues/. In particular, I want to follow up on ASIP’s participation, along with 55 other organizations, as an amicus of the court case to support the teaching of evolution in public schools in Dover, Pennsylvania, that I mentioned in the July 2005 *ASIP Bulletin*. In December, the United States District Court in Harrisburg, ruled in favor of the plaintiffs (that means us) and barred teaching of intelligent design in science classes of the Dover public schools. As a follow-up, ASIP is joining many other organizations in a polling project to better understand the American public’s comprehension and understanding of the scientific principles of evolution theory.

News about our members and staff. I am thrilled to announce that ASIP members Richard Lynch and Emanuel Rubin will be honored this year with Association of Pathology Chairs (APC) Distinguished Service Awards at the APC Summer Meeting. Over the past ten years, other ASIP members who have received the APC Distinguished Service Award include Fred Gorstein (2001), William Hartmann (1997), Leonard Jarett (1998), Donald King (2000), David Korn (1999), Leopold Koss (2002), Henry Pitot (2005), Jack Strong (2005), and Peter Ward (2004). Also see the special Highlight on Nancy Thompson on page 22. Nancy, who chaired the Committee for Career Development, Women and Minorities from 2000 to 2003 and is currently ASIP’s representative to the FASEB Excellence in Science Committee, has now joined the ranks of deans. Leo Furcht, current ASIP Councilor whose term ends this year, will become President of FASEB on July 1, 2006.

ASIP welcomes Stacey Taylor to the staff of the journal editorial office as Production Assistant. Stacey comes to us from the *Journal of the National Cancer Institute*. And finally, I am eagerly awaiting the return (on March 6) to the ASIP Office of Tara Snethen, who has been on maternity leave since the birth of her darling daughter Nikki on December 13.

Welcome to Our New Members! In 2005, 88 regular, 4 associate, and 53 new trainee members joined our ranks. Their names are listed on pages 18-20. We look forward to working with you in the coming years to support your scientific endeavors.
Dr. Michael Lieberman, first Chair of the Department of Pathology of The Methodist Hospital Physician’s Organization and the first Director of The Methodist Hospital Research Institute, has been named this year’s recipient of ASIP’s Gold-Headed Cane Award. Dr. Lieberman has established a distinguished reputation as a basic researcher, teacher, academic leader and administrator.

The Gold-Headed Cane Award is the highest honor given to 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. Lieberman’s main research accomplishments in the area of carcinogenesis and UV-induced repair synthesis were recognized by the ASIP in 1981 when he was awarded the Warner-Lambert/Parke-Davis Award. He was a pioneer in applying molecular techniques in research and clinical arenas. Most recently, his work on the gamma-glutamyl cycle, utilizing biochemistry, cloning and knockout mice, has demonstrated the key role of glutathione metabolism in major cellular processes.

In addition to his years as an outstanding investigator, Dr. Lieberman has excelled as an administrator and leader including playing a vital role in the foundation of the Department of Pathology at Baylor College of Medicine. Harold L. Moses, M.D. explains, “He changed what had been a small diagnostic and service-oriented department into a large research-intensive department with a huge service component involving a medical school, four teaching hospitals and multiple community hospitals. During his latter years at Baylor, Dr. Lieberman brought together investigators from Baylor and the four teaching hospitals to form the Baylor Cancer Center.”

Dr. Lieberman has served as a member, officer, chair and president of innumerable local, state, national and international organizations and committees devoted to pathology and basic research. In particular, he has been a key participant in the American Society for Investigative Pathology, serving as Member (1981-1988) and Chair (1986-1988) of the Program Committee, Member of the Meritorious Award Committee (1982-1984; 1989-1991), Secretary/Treasurer (1990-1992), Vice-President (1992-1993) and President (1993-1994).

Dr. Lieberman received his B.A. from Yale University, and M.D./Ph.D. from the University of Pittsburgh. Even before moving to Houston in 1988, he had a distinguished academic career on the faculty at several institutions, including the National Institutes of Health, University of North Carolina, and the Barnes Hospital and Washington University in St. Louis, and was chair of the Department of Pathology at Fox Chase Cancer Center.

Dr. Lieberman 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 2006 in San Francisco on April 3.
Rous-Whipple Award Presented to Steven L. Teitelbaum

Dr. Steven L. Teitelbaum, M.D., Ph.D., Professor, Department of Pathology and Immunology at the Washington University School of Medicine, is the recipient of the 2006 Rous-Whipple Award. This award is given to a pathologist age 50 years or older with a distinguished career in research and continued productivity. (Please note: the age eligibility for this award was recently changed. Future candidates for the Rous-Whipple Award must be at least 50 years old in the year of application.)

For nearly three decades, Dr. Teitelbaum has distinguished himself as a practicing anatomic pathologist with world-class expertise in bone pathology and as a basic scientist whose discoveries have literally defined the field of osteoclast biology.

Dr. Teitelbaum’s research career can be divided into three phrases. During the 1980’s, he performed groundbreaking studies defining the developmental line and cellular physiology of the osteoclast. During the 1990s, he made extraordinary discoveries concerning osteoclast–matrix interactions that significantly advanced bone biology, led to new insights into mechanisms of tumor metastasis to bone, and have spun-off novel, promising therapies for osteoporosis. More recently, Dr. Teitelbaum has used contemporary tools of molecular and genetic engineering and structural biology to gain fundamental insights into signaling pathways and protein networks that regulate normal osteoclast function and that underlie metabolic bone disease.

Dr. Teitelbaum’s scientific accomplishments have resulted in more than 250 peer-reviewed manuscripts. He served as chairman of Jewish Hospital’s Institutional Review Board from 1977 to 1997 and was also pathologist-in-chief at Jewish Hospital from 1987 to 1996. The medical school named a scholarship to honor him as a distinguished alumnus in 1997. Dr. Teitelbaum also served as president of the Federation of American Societies for Experimental Biology from 2002 to 2003.

“It is no exaggeration to say that Steve Teitelbaum is the world’s premiere physician-scientist in pathology working in the field of bone disease,” says Jeffrey E. Saffitz, M.D., Ph.D., Professor of Pathology and Immunology, Washington University School of Medicine.

Dr. Teitelbaum received a medical degree from the Washington University School of Medicine in 1964. He completed an internship and residency at New York University. He returned to Washington University in 1968 as a clinical fellow in pathology and continued his academic career there.

Dr. Teitelbaum will receive the Rous-Whipple Award at ASIP’s Annual Meeting at Experimental Biology 2006 in San Francisco on April 3, and will present the paper “Osteoclasts, Integrins and Osteoporosis” On April 3 at 11:30 a.m.

2006 API Council

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Amgen Outstanding Investigator Award—Jonathan Pollack

Dr. Jonathan Pollack, Assistant Professor of Pathology at Stanford University, is one of this year’s two recipients of the Amgen Outstanding Investigator Award. This award is presented to an ASIP member under the age of 43 for meritorious research in experimental pathology. (Please note: the age eligibility for this Award was recently changed. Future candidates must be no older than 45 in the year of application, effectively increasing the age of eligibility by three to four years.)

Dr. Pollack’s research focuses on using genomics technologies to explore patterns of gene expression and gene copy number alteration in human cancer cell line model systems and, most importantly, in spontaneous tumors, with the goals of better understanding cancer and developing novel diagnostic and, ultimately, therapeutic strategies.

Dr. Pollack is applying an array-based comparative genomic hybridization (“array CGH”) technique to identify novel oncogenes and tumor suppressor genes in breast cancer, prostate cancer, acute myeloid leukemia (AML), and other tumor types. Dr. Stephen J. Galli, M.D., Professor of Pathology and Microbiology and Immunology at Stanford University School of Medicine emphasizes, “His work in AML has the most immediate potential to impact patient care. [Dr. Pollack] is now in the process of validating his gene-expression-based outcome predictor for patients with AML, and to develop practical RT-PCR and immunophenotyping assays to apply this predictor to assign more appropriate risk adapted therapies. He is in an ideal position to translate his findings toward improved care for patients with AML.”

Michael Cleary, M.D., Associate Chair for Experimental Pathology at Stanford University School of Medicine further illustrates Dr. Pollack’s impact in this area of study: “His pioneering insight that microarrays could be used to map regions of genomic gain and loss in human tumors has single-handedly revolutionized the field of molecular cytogenetics, opening up a new era of precision for genomic analysis with important implications for cancer pathogenesis and diagnosis.”

In addition to conducting an independent research program in cancer genomics, Dr. Pollack serves as Director of the Stanford Tissue Bank and as Associate Director of the Molecular Pathology Laboratory.

Dr. Pollack received his B.A. from Harvard University and his M.D. and Ph.D. in the MSTP program at UCSF and completed pathology residency training at UCSF. He received postdoctoral training at Stanford University under the direction of Dr. Pat Brown.

Dr. Pollack will receive the Amgen Outstanding Investigator Award at ASIP’s Annual Meeting at Experimental Biology 2006 in San Francisco on April 3 and will present the paper, “Genomic Views of Human Cancer” on April 2 at 11 a.m.

Award Lectures and Special Sessions at Experimental Biology 2006 – San Francisco, CA

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<th>Saturday, April 1</th>
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<td>AM</td>
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<tr>
<td>9:00 AM</td>
<td>Course: Essential Concepts in Pathobiology: Cellular &amp; Molecular Mechanisms of Disease</td>
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<td>W. B. Coleman</td>
<td>D. J. Templeton, M. G. Scott (Room 2005)</td>
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<td>10:30 AM</td>
<td>Science Seekers Challenge</td>
<td>12:15 PM</td>
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<td>M. Cohen (Marriott, Club Room)</td>
<td>J. Brugge</td>
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All sessions in Room 2001 of the Moscone (West) Convention Center, unless otherwise noted.
Amgen Outstanding Investigator Award—Jerrold Turner

Dr. Jerrold Turner, Associate Professor in the Department of Pathology at The University of Chicago, is one of two recipients of the Amgen Outstanding Investigator Award for 2006.

Dr. Turner is an epithelial biologist who has chosen the gastrointestinal epithelium as a model system to investigate how the transit of fluids, ions and nutrients are regulated. Understanding the pathways that exert such regulation is of fundamental significance in epithelial biology.

Dr. Turner has received national recognition for his experimental and surgical pathology endeavors, is an outstanding teacher who helped organize and run a new course of the Committee on Molecular Medicine, and also serves as the Associate Director of the Pathology Residency Program at the University of Chicago. With this in mind, Dr. James L. Madara, M.D. of The University of Chicago describes him as the, “rare triple threat.”

“[The] definition of both physiological and pathophysiological regulation of paracellular permeability is fundamental to understanding of epithelial cell biology in health and disease,” Dr. Vinay Kumar, M.D., Professor and Chairman, Department of Pathology, The University of Chicago, goes on to explain. “Dr. Turner’s work has elucidated several major mechanisms of this regulation. This has both enhanced our understanding of disease pathogenesis and identified targets for novel therapeutic strategies.”

Dr. Turner obtained both his A.B. and A.M. from Washington University and earned his M.D./Ph.D. at Case Western Reserve University. He completed his pathology residency at Brigham & Women’s Hospital and pursued postdoctoral training under Dr. James Madara in the same institution.

Dr. Turner will receive the Amgen Outstanding Investigator Award at ASIP’s Annual Meeting at Experimental Biology 2006 in San Francisco on April 3 and will present the paper, “Molecular Basis of Epithelial Barrier Regulation: From Basic Science to Clinical Application” on April 2 at 5:00 p.m.
Chugai Award to be presented to James M Anderson

James M. Anderson, M.D., Ph.D., Professor of Pathology, Macromolecular Science and Biomedical Engineering at Case Western Reserve University, with the 2006 Chugai Mentoring Award. This award, funded by Chugai Pharma USA, LLC, is presented to a member of ASIP with a distinguished career dedicated to mentoring and education and who is still productive at the time of the award.

Dr. Anderson is best known nationally and internationally for his contributions to the basic and applied science of biodegradable polymers and the interaction of polymeric and other biomaterial in medical devices and implants with blood and other tissues. Dr. Anderson has offered an unusually interdisciplinary environment in which he has fostered the development of his medical students and served as a research advisor and mentor.

The impact and significance of Dr. Anderson’s scholarly activities have been widely recognized. Funding for his research includes an NIH MERIT Award (1993-2003) that focused on developing a better mechanistic understanding of the cell and molecular biology of inflammatory cells, including macrophages and foreign body giant cells, adherent to biomaterials. He has been recognized nationally and internationally for his contributions to the understanding of tissue/materials and blood/materials interactions. His numerous awards include the Excellence in Surface Science Award, Surfaces in Biomaterial Foundation; Founders Awards from both the Society of Biomaterials and the Controlled Release Society; and the Japanese Society for Biomaterials Award for Distinguished Service in Advancement of Biomaterial Science. Since 1988, he has served as Editor-in-Chief of the Journal of Biomedical Materials Research, the leading journal in its field.

Dr. Anderson is also a much sought-after consultant by medical device companies in the private sector. He has served in the regulatory aspects of product development that has aided these companies in their interactions with the Food and Drug Administration in an effort to make worthwhile products available to the public more quickly.

Dr. Frederick J. Schoen, Ph.D., Professor of Pathology at Harvard Medical School says, “Dr. Anderson serves as an extraordinary physician scientist role model. He is able to incorporate sound engineering and physical sciences principles with his knowledge of medicine and pathology that provide a unique context for students. His students and fellows present their work frequently at scientific meetings in pathology [and] biomaterials in controlled drug release.” He goes on to explain, “The projects of his mentees have served as a paradigm for research that takes real clinical problems, reduces them to hypotheses that can be studied in the laboratory, establishes mechanisms and develops approaches to reverse the deleterious effect.”

“Dr. Anderson has served as research advisor and mentor for over 12 M.S. degree students, 15 Ph.D. degree students, 4 M.D./Ph.D. students, 12 postdoctoral fellows, and 8 undergraduate students who later continued on to medical school. Indeed, the great majority of Dr. Anderson’s [over 200] publications in peer-reviewed journals have been first-authored by students who performed the experimental work,” says Dr. Michael Lamm. “A particularly significant contribution lies in his bridging the fields of experimental pathology and biomedical engineering and thus extending an awareness and appreciation of the discipline of pathology to a whole new audience in both its academic and industrial spheres.”

Dr. Anderson received his B.S. from Wisconsin State University and his Ph.D. from Oregon State University. After receiving his M.D. from Case Western Reserve University in 1976, he pursued clinical training at the University Hospitals and became a member of the faculty at Case Western Reserve, attaining the rank of Professor in 1984.

Dr. Anderson will receive the Chugai Mentoring Award at ASIP’s Annual Meeting in San Francisco on April 3.
Report from the Committee for Career Development, Women and Minorities

Tara Sander

Representatives from the major biomedical professional societies, including ASIP, met last November in Atlanta, GA, for the annual Minorities Action Committee (SuperMAC). The SuperMAC is a coalition of leaders among the underrepresented minority scientist community whose aim is to address collectively the common concerns of different Minorities Affairs Committees (such as the ASIP Committee for Career Development, Women and Minorities) and to present a unified public policy to the councils of professional scientific societies and to the nation. The SuperMAC is committed to the fulfillment of four primary goals: (1) learning of the programs, policies, and agendas of each society, (2) identifying common factors that impair career progress and restrict the numbers of underrepresented groups in the sciences, (3) assisting in the elimination of health disparities, and (4) implementing bold new initiatives requiring the collective effort of the Minority Affairs Committees of various societies. To date, the SuperMAC has been instrumental in the development of the web-based minority scientists’ database, called JustGarciaHill (JGH), which can be found at www.justgarciahill.org. JGH is an interactive website, providing a place for minority scientists to network, identify mentors/mentees, track students, and obtain career information. As a society committed to the advancement of underrepresented minority scientist, members of ASIP are highly encouraged to inform minority scientists at their institution to register and utilize the JGH database. Donella Wilson, representative of the American Cancer Society, is the current Chair of the SuperMAC, with Thomas Landfield serving as Vice-Chair. Please address all questions regarding the SuperMAC to Tara Sander, current co-chair and SuperMAC representative for the ASIP Committee for Career Development, Women and Minorities.

6th Annual Meeting of Graduate Program Directors in Pathology

ASIP Annual Meeting at Experimental Biology 2006
Saturday, April 1, 2006 - 2:30PM - 4:30PM, Marriott, Yerba Buena Salons 10/11
http://www.asip.org/mtgs/EB06/gradprogdirmtg.htm
Organizer: Robert Bowser, Ph.D. - University of Pittsburgh School of Medicine

Conference Goals
- To develop a better understanding of the processes of education about disease and to further develop the image of the ASIP as a national educational resource.
- To form and foster a communication network of Pathology mentors/trainers.
- To help attract graduate students to careers in Pathology teaching and research.

Conference Structure
Targeted presentations, focused questions and open discussion will be used to generate and share ideas about topics of immediate interest in the education of graduate students about disease. The topics are:
- Update on Pathology Trainee Surveys
  a) Distribution of the survey forms via our Program Director Listserv.
  b) Preliminary data from the surveys.
- HHMI grants: The latest novel ideas about interdisciplinary graduate education in disease
  a) Discussion of at least four HHMI "Med into Grad" grant applications.
  b) Open discussion of other educational initiatives for teaching graduate students about disease.
- Funding opportunities for Pathology graduate students and programs
  a) How and where to obtain funding for graduate training programs in Pathology?
  b) Pathobiology training grant applications and the NIH.
  c) The best sources of funding for individual graduate students.

Who Should Attend?
All directors of Pathology Graduate Training programs, Program Directors of interdisciplinary training programs that incorporate disease-associated or disease-based research, and others interested in graduate education.

Participate in the Survey! Deadline: March 20, 2006
http://www.asip.org/mtgs/EB06/gradprogdirmtg.htm
ASIP 2006 Summer Course
Molecular Mechanisms of Human Disease
July 12-16, 2006
To be held at the University of California, San Diego (UCSD)* San Diego, CA

Organizers:
Abul K. Abbas, MBBS - University of California, San Francisco
Richard N. Mitchell, MD, PhD - Harvard Medical School/Brigham & Women’s Hospital

Molecular Mechanisms of Human Disease will be a five-day in-depth overview of current and cutting edge cell and molecular biology of human diseases. This course is designed for students, technologists, fellows, faculty, and scientists from academia and industry desiring a better understanding of the mechanisms underlying basic physiologic processes and how those pathways contribute to pathology and disease. This course will introduce researchers and educators to a broad sampling of new and exciting areas of biomedical research. Each day of the course will be capped off by a discussion of current developments and revolutions in technologies, including flow cytometry, tissue engineering, cancer genomics, and proteomics. CME Accredited

- LEUKOCYTE ACTIVATION AND INFLAMMATION, MECHANISMS OF LEUKOCYTE-MEDIATED TISSUE INJURY
  Disease Application: Septic Shock, Immune-Mediated Inflammatory Diseases
  Abul K. Abbas, MBBS, University of CA, San Francisco

- CANCER GENES
  Disease Application: Colon Cancer, Breast Cancer, and Lung Cancer
  Nelson Fausto, MD, University of Washington

- PARVAL ONCOGENESIS
  Disease Application: Cervical Cancer and HPV
  Peter M. Howley, MD, Harvard Medical School

- LEUKOCYTE RECRUTIMENT
  Disease Application: Atherosclerosis, Graft Rejection
  Richard N. Mitchell, MD, PhD, Harvard Medical School / Brigham & Women’s Hospital

- TISSUE STEM CELLS
  Disease Application: Myocardial Infarction
  Charles E. Murry, MD, PhD, University of Washington

- SELECTED TECHNOLOGIES: FLOW CYTOMETRY
  Disease Application: AIDS
  Louis J. Picker, MD, Oregon Health & Science University

- FRONTIERS IN AGING RESEARCH
  Disease Application: Diabetes, Neurodegeneration, Cancer, Cardiovascular
  David A. Sinclair, PhD, Harvard Medical School

- HEMATOPOIETIC STEM CELLS
  Disease Application: Leukemia, Diseases of Ablerrant Vasculogenesis/Neovascularization
  Heidi Stuhlmann, PhD, The Scripps Research Institute

- ANGIOGENESIS, TUMOR-STROMAL INTERACTIONS
  Disease Application: Breast Cancer, Prostate Cancer
  Valerie M. Weaver, PhD, University of Pennsylvania, Institute for Medicine and Engineering

- PATHWAYS OF CELLULAR INJURY (ISCHEMIA, CALCIUM, REACTIVE OXYGEN SPECIES)
  Disease Application: Reperfusion Injury
  Manjeri A. Venkatachalam, MD, University of Texas Health Science Center, San Antonio

- SELECTED TECHNOLOGIES: TISSUE ENGINEERING
  Jennifer L. West, PhD, Department of Bioengineering, Rice University

- SELECTED TECHNOLOGIES: MOLECULAR DIAGNOSIS OF CANCER: GENOMICS AND PROTEOMICS
  Matt van de Rijn, MD, PhD
  Stanford University Medical Center

American Society for Investigative Pathology
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Bethesda, MD 20814 (USA)
Tel: 301-534-7130
Fax: 301-534-7990
Email: meetings@asip.org
www.asip.org

Early (Reduced) Registration Deadline: April 10, 2006
Final Registration Deadline: June 15, 2006

ASIP Minority Trainee Travel Awards Available!
More information at www.asip.org/sc06/mtta.htm

Register online at www.asip.org/sc06

*The ASIP 2006 Summer Course is not sponsored by the University of California.
REGISTRATION FORM
Molecular Mechanisms of Human Disease
July 12-16, 2006, To be held at the University of California San Diego (UCSD)*

On-Campus Housing Option
Attendees may choose to live in campus apartment-style housing where they will share an apartment with two additional attendees. The Campus Housing/Meals/Parking Permit, Recreation Card Plan ($695.95/person) includes room, linens and towels, meals, campus recreation card, & campus parking permit. Each apartment includes a living room, dining area, kitchen (microwave and hotplate), three separate bedrooms and one shared bathroom. All bedrooms are internet ready, with WiFi and Cable connections.
First meal: Dinner, July 12
Last meal: Breakfast, July 16

Off-Campus Housing Option
Attendees may also choose to live off-campus in nearby hotels. Attendees that plan to bring guests or family members, might prefer to select off-campus housing in a nearby hotel. Visit the ASIP website at: www.asip.org/sc06 for hotel information. Participants selecting off-campus housing are strongly urged to register for the Meals and Parking Permit Plan Only Plan ($316.00/person) to enable them to dine with their colleagues throughout the week. The Campus Meals and Parking Plan includes meals and parking permit only. Optional campus recreation card may be purchased from UCSD upon arrival.
First meal: Dinner, July 12
Last meal: Breakfast, July 16

*Attendees that need housing prior to or just after the course, may visit www.asip.org/sc06/ for hotel options.

ASIP Minority Trainee Travel Awards Available! Complete information at www.asip.org/sc06/mtta.htm

Name
Position
Department
Institution
Address
City State Zip
Country
Tel
Fax
Email

Graduate Stdtnt  Medical Stdtnt  Post Doc  Technologist  Resident
ASIP Member  API Member  ISBER Member  Non Member
I am applying for ASIP Membership. Please accept my course registration at the ASIP-member rate. (Apply for ASIP membership online at www.asip.org or include ASIP membership application - download at www.asip.org - with this registration form.)

Registration/Housing/Meals (Includes FREE CME Credit**) - Rates:

Early Registration - Deadline April 10

- Student/Trainee $350 $450
- Academia/Non-profit/Government $700 $900
- Corporate For Profit $1,100 $1,300

Late Registration - Deadline June 15

- Trainee $450 $550
- Academia/Non-profit/Government $600 $1,000
- Corporate For-Profit $1,200 $1,400

On-Campus Housing/Meals/Parking Permit/Recreation Card

- Campus Housing/Meals/Parking Permit/Recreation Card $695.95
- Male  Female (For use in assigning apartment housing)

Optional: I would like to share my apartment with:
Name:
Name:

Off-Campus Housing (Meals/Parking Permit Only)

- Meals/Parking Permit only $316.00

Note: Recreation Cards are optional and can be purchased from UCSD upon arrival.

Special Needs?

Payment:
Total Payment: $

- Check - Make payable to ASIP
- Credit Card  VISA  MasterCard  American Express

Card # Exp Date
Name on Card (Please Print)

Signature

Cancellation Policy: Cancellations on or before June 15, $100 cancellation fee. No refunds available after June 15.
*The ASIP Summer Course is not sponsored by the University of California
**This course is approved for 30 CME credits - see CME details at www.asip.org/sc06/CME.htm
Report from the Program Committee

Martha B. Furie and Charles Parkos

The next ASIP Annual Meeting will be held in conjunction with Experimental Biology 2006 from April 1-5 in the Moscone Convention Center, located in downtown San Francisco in a vibrant neighborhood of restaurants, theaters, parks, museums, and galleries. We are pleased that our 2006 meeting will be a joint one with the North American Vascular Biology Organization (NAVBO). 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 http://www.asip.org/mtgs/EB06/welcome.htm. In addition, 510 abstracts that were submitted to ASIP and NAVBO topic categories have been programmed in 11 minisymposia and 19 poster sessions or as an integral part of two full-day Molecular and Cellular Basis of Disease Symposia, which focus on atherosclerosis and redox-mediated disorders.

To mark the opening day of the meeting, Dr. Joan S. Brugge of Harvard Medical School will present a keynote address entitled, “Modeling Cancer in Three Dimensions In Vitro.” Topics for symposia and award lectures include epithelial to mesenchymal transition and oncogenesis, stem cells and neuro-oncology, regulation of innate immunity, development and function of mast cells, and pathologists’ insights for systems biology. Workshops will provide an introduction to bioinformatics for experimental biologists and insights into liver growth and regeneration. Additional symposia and lectures have been developed in cooperation with our guest societies, which include the American College of Veterinary Pathologists, the American Society for Matrix Biology, the Association for Pathology Informatics, the International Society for Analytical and Molecular Morphology, the International Society for Biological and Environmental Repositories, and the Pulmonary Pathology Society. We also will continue our tradition of hosting sessions that highlight the accomplishments of our trainee members and offer advice on career development.

Links for registration and other information are available at the ASIP meeting web site. You may still register online or onsite. Full details are available at http://www.faseb.org/meetings/eb2006/call/registration_info.htm.
New in 2006 for AJP & JMD Readers!

ASIP Journal CME Program In Pathogenesis and JMD CME Program in Molecular Diagnostics

The ASIP Journal CME Program in Pathogenesis provides The American Journal of Pathology (AJP) readership with a unique opportunity to earn CME credit while renewing and updating their knowledge in the mechanisms of disease. This program consists of a series of questions based on selected articles in the 2006 issues of AJP.

Historical Image: ASIP Journal CME Program in Pathogenesis

- **Objectives** - Participants of the ASIP Journal CME Program in Pathogenesis should be able to demonstrate an increase in, or confirmation of, their knowledge of, the pathogenesis of disease after reviewing specific articles in The American Journal of Pathology (AJP).

- **Participants** - This program is specifically developed for trainees, clinicians and researchers investigating the mechanisms of disease who wish to advance their current knowledge of the cellular and molecular biology of disease.

- **CME Credit**
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Federation of American Societies for Experimental Biology (FASEB) and the American Society for Investigative Pathology (ASIP). FASEB is accredited by the ACCME to provide continuing medical education for physicians. FASEB designates this educational activity for 50 credit hours in category 1 credit towards the AMA Physician’s Recognition Award.

- **Registration Rates**:
  - ASIP, API, ISBER Member Rates - $95/year
  - Non-Members - $125/year

- **Examinations**
Each monthly issue of AJP will include an Examination comprised of 3-6 questions based on articles appearing in that particular issue.

The JMD CME Program in Molecular Diagnostics provides The Journal of Molecular Diagnostics (JMD) readership with an opportunity to earn CME credit while renewing and updating their knowledge in the latest advances in molecular diagnostics. This program consists of a series of questions based on selected articles in the 2006 issues of JMD.

Historical Image: Journal of Molecular Diagnostics

- **Objectives** - Participants of the JMD CME Program in Molecular Diagnostics should be able to demonstrate an increase in, or confirmation of, their knowledge of the latest advances in molecular diagnosis and prognosis and understanding of molecular pathogenesis of disease after reviewing specific articles in The Journal of Molecular Diagnostics (JMD).

- **Participants** - This program is specifically developed for trainees, clinicians and researchers interested in the molecular basis of disease and the application of nucleic acid and protein assays for diagnostic and prognostic analysis of disease.

- **CME Credit**
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Federation of American Societies for Experimental Biology (FASEB) and the American Society for Investigative Pathology (ASIP). FASEB is accredited by the ACCME to provide continuing medical education for physicians. FASEB designates this educational activity for 50 credit hours in category 1 credit towards the AMA Physician’s Recognition Award.

- **Registration Rates**:
  - AMP, ASIP, API, ISBER Member Rates - $95/year
  - Non-Members - $125/year

- **Examinations** - Each issue of JMD will include an Examination comprised of 10 questions based on articles appearing in that particular issue.

Registration information online at: www.asip.org/CME/journalCME.htm

*Note: The ASIP Journal CME Program in Pathogenesis and the JMD CME Program in Molecular Diagnostics are separate programs, and must be registered for individually.*
Until these meticulous studies by Paris Constantinides were published, the pathogenesis of arterial thrombosis was a subject of considerable controversy and speculation. It had long been known that thrombotic occlusion of a coronary artery was a common autopsy finding in patients dying from myocardial infarction (heart attack), and that cerebral artery blockage by a recently formed clot was a typical finding in patients with a cerebral infarction (stroke). While there was strong consensus that advanced atherosclerosis predisposed coronary and cerebral arteries to thrombosis, the mechanisms underlying these events had remained obscure.

The hallmark lesion of atherosclerosis is the atheromatous plaque, or atheroma, a term derived from the Greek word for gruel. An atheroma is a raised focal plaque within the arterial intima that is composed of a pasty, cholesterol-rich core covered by a fibrous cap. With time, atheromas become calcified and acquire the brittleness of an egg shell.

In a minority of patients with coronary or cerebral thrombosis, the clot forms over an ulcerated atherosclerotic plaque. This was readily explained because the collagen, calcium and phospholipoproteins exposed in a denuded plaque were well known aggregators of platelets and activators of thromboplastin. However, in the majority of patients with coronary or cerebral thrombosis, the clot formed over seemingly intact, hemorrhagic plaques. The pathogenesis of these clots remained unexplained until the milestone investigations of Constantinides.

Several mechanisms had been proposed to account for coronary and cerebral thrombosis, but each was conceptual, speculative and unproven. The consistency of finding hemorrhage within seemingly intact plaques at the site of thrombosis spawned a novel concept - the capillary hemorrhage theory. This proposed that capillaries from the arterial lumen invaded the plaque and then ruptured, triggering a retrograde thrombosis that expanded to occlude the artery. This theory ignored that capillary invasion of plaques usually occurs from the adventitia –the outside of the artery– not from the lumen.

The stasis theory proposed that diminished blood flow caused by atherosclerotic narrowing of the vessel resulted in thrombus formation, while the turbulence theory envisioned thrombosis as the result of eddying-induced platelet aggregation at sites of atherosclerotic narrowing. The enormous morbidities and mortalities associated with coronary and cerebral thrombosis, disorders highly prevalent in developed nations, fostered major research efforts in North America and Europe. However, progress was stymied by the lack of a relevant experimental model and by a reductionist research approach to the overwhelmingly complex process of atherogenesis. Although the list of predisposing conditions, such as hypertension, hyperlipidemia, diabetes, obesity and cigarette smoking, continued to grow, real progress towards identifying pathogenic mechanisms proved elusive.

A popular concept held that thrombus formation in an atherosclerotic coronary or cerebral artery was a result of systemic hypercoagulability. Support for this idea came from clinical trials in which anticoagulants appeared to improve survival in selected patients. A major criticism of the hypercoagulability theory was its failure to account for the exclusive formation of only a single clot, at a single site, in a single artery, in spite of numerous atherosclerotic lesions present in the same and other arteries of the patient.

The tiny fissure hypothesis of Constantinides proposed that the thrombi that form over seemingly intact hemorrhagic plaques are caused by microscopic cracks in the collagenous caps of the plaques- cracks so small that they are rarely detected by routine histological examination. To test his idea, he conducted a monumental examination of serial seven-micron-thick paraffin sections cut through the entire length of occluded coronary arteries. This meticulous study of (Continued on page 21)
Journal News

2006 looks to be another year of continued evolution for both The American Journal of Pathology and The Journal of Molecular Diagnostics. As reported in the last ASIP Bulletin, we are proceeding with plans to implement online pre-prints of articles before print publication. Dubbed fastPATH for AJP and JMDxpress for JMD, these features should soon be available on the Journal website (http://www.amjpathol.org).

We are pleased to announce the Journal’s new affiliation with PubMed Central (PMC). Through this affiliation, once content has been made publicly available on the Journal website, articles will also be accessible through the PMC repository. Not only will this allow the Journals to reach a greater audience of readers, but article deposits in PMC will help us fulfill the important need for a redundant archive of Journal material. Our affiliation with PMC should also enable us to better assist our authors in complying with the National Institutes of Health’s Public Access to Research Initiative, as these automated deposits from the Journals will eliminate the author’s need to individually submit these articles themselves.

The life blood of our Journals is of course our author-ship and readership. To that end, we are implementing a number of new initiatives to better serve both constituencies. Upon publication, authors will now be provided with a number of free electronic (secure PDF) reprints of their articles for personal distribution. Additionally, in an effort to promote research coming from developing nations, the AJP has adopted a policy of waiving submission and publication charges for affected authors. This is a continuation of our commitment to providing free Journal access to developing nations through our participation in the World Health Organization’s Health Internetwork Access to Research Initiative (HINARI).

Our other major focus is the readership. We hope you have been enjoying the periodic emails coming to you through the ASIP listserv, updating you on Journal happenings and providing you with Tables of Contents for new issues. We are contemplating a number of other new features for the Journals, to better improve the reader experience. One such feature is the development of ASIP’s Journal CME Program (launched earlier this year and detailed in the Executive Officer’s report). We will soon be initiating a reader survey to better assess the specific needs and interests of our readers. We hope you will take a few minutes to respond to this survey, as your much-appreciated input will contribute greatly to the future direction of the Journals.
Welcome New Regular Members —Joined in 2005

Arthur Aufderheide  
Univ of Minnesota Sch of Med  

Rebecca Betensky, PhD  
Harvard School of Public Health  

Xiaoning Bi, PhD  
UCI  

Shantala Bindu, MD  
Quest  

Demetrios Braddock, MD, PhD  
Yale University  

Andrew Brooks, DVM, PhD, DACVP  
University of Guelph  

Lilian Calderon-Garciduenas, MD PhD  
Univ of Montana  

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Sean P. Colgan, PhD  
Brigham & Women's Hosp  

Bruce Cronstein, MD  
NYU School of Medicine  

Ralf-Peter Czekay, PhD  
Albany Medical Center, CCBCR-165  

Monique De Paepe, MD  
Women & Infants Hospital  

Ruba Deeb, Ph.D.  
Weill Med Col of Cornell Univ  

Richard W Doughty, MSc, BVSc  
GE Healthcare Biosciences  

Ronny Drapkin, MD, PhD  
Dana-Farber Cancer Institute  

Azza B El-Remessy, PhD, RPh  
Medical College of Georgia  

Xing Fan, MD, PhD  
Johns Hopkins University  

Armando E. Fraire, MD  
Univ of Mass Med Ctr  

Matthew Frosch, M.D., Ph.D.  
Brigham & Women's Hospital  

Gavin J. Gordon  
Brigham & Women's Hosp.  

Eric Hanson, MD, MPH  
Las Vegas, NV  

Sarah E Herrick, PhD  
University of Manchester  

Jan D. Huizinga, PhD  
McMaster University  

Dontscho Kerjaschki, DM  
Medical University Vienna  

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Cancer Research UK Clinical Centre  

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Toxicologic Pathology Assoc.  

Andrew Leask, PhD  
University of Western Ontario  

Helen Liapis  
Washington University in St. Louis  

Gregory I Liou, PhD  
Medical College of Georgia  

Jingsong Liu, MD PhD  
UT MD Anderson Cancer Center  

Mahesh Mankani, MD  
UCSF  

Thomas P. Mawhinney, PhD  
University of Missouri - Columbia  

Derek M McKay, PhD  
McMaster University  

Angela McKenzie  
GlaxoSmithKline  

David Meyerholz, DVM MS PhD  
Iowa State Univ  

Kouros Motamed, Ph.D.  
Medical College of Georgia  

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Kocaeli University Medical School  

Yasuni Nakamura, PhD  
Kanazawa University  

Michael Naski, MD, PhD  
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Ribeirão Preto Medical School - USP  

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Weill Med Col of Cornell Univ  

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Univ of California San Francisco  

Leslie A Obert, DVM, PhD  
Pfizer Global Research & Development  

Masahiko Ohswa, MD, PhD  
Osaka City University  

Kenneth Olden  
NIEHS  

Andre Oliveira, MD  
Mayo Clinic and Mayo Foundation  

Shawn P. O'Neil, DVM, PhD  
Harvard Medical School  

Akhilesh Pandey, M.D., Ph.D.  
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Archibald Perkins, MD, PhD  
Yale University School of Medicine  

Pravin Potdar, Ph.D.  
The Scripps Research Institute  

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BIOPAT. Biopathologia Molecular  

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Gerald S. Shadel, Ph.D.  
Yale University School of Medicine  

Zonggao Shi, PhD  
Children's Hospital of Philadelphia  

Paula K. Shireman, MD  
University of Texas HSC  

Kelly D. Smith, MD, PhD  
University of Washington  

(Continued on page 20)
Welcome New Trainee Members — Joined in 2005

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University of Virginia

Philip Alex, MD
Oklahoma Medical Research Fndn

Udayan M. Apte
Univ of Pittsburgh, SOM

Shahin Assefnia, DVM
Georgetown University

Mihaela Avramut, M.D.
Univ. of Pittsburgh Sch. of Med.

Ashish Bhattacharjee, PhD
Cleveland Clinic Foundation, LRI

Angelina Bilate
University of Sao Paulo

Louis B. Brill, II, MD, PhD
University of Virginia

Alvin Cheung
The University of Hong Kong

Michael Cruise
University of Virginia

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Lingsheng Dong
Brigham and Women's Hospital

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Univ. of Alabama at Birmingham

Yohannes T. Ghebremariam, PhD
University of Cape Town

Madeline D. Gregortis
University of Delaware

Ian Hines, PhD
University of North Carolina

Laszlo M Hoesel, MD
University of Michigan

Nancy Jewell, PhD
Columbus Children's Research Inst.

Pal Kaposi-Novak, MD
National Cancer Institute

Anoop Kavirayani, BVSc
Tufts University Sch of Vet Med

Roger D. Klein, MD JD
Mayo Clinic

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Matam Kumar, V, Ph.D
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Meredith Lann, MD
University of Colorado HSC

Lin Li, MD
University of Virginia

Amanda K. Mareth, B.S.
Texas A&M University

Matthew Medlin
Univ. of North Carolina Chapel Hill

Jeffrey S. Mueller, D.O.
Vanderbilt University Medical Center

Sanchita Mukherjee, PhD
University of New Mexico HSC

Fnu Nagajyothi, PhD
Albert Einstein College of Medicine

Anjali Nath
Yale University

Elena Nedelcu, MD
D. Geffen Sch of Medisince at UCLA

Xian O'Brien
Rhode Island Hosp/Brown Univ

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Marcela Riveros Angel, MD
Beth Israel Deaconess Medical Center

Jacob Rullo, BHSc
McMaster University

Anguraj Sadanandam, MSc
Univ of Nebraska Medical Center

Neveen Said, MD,PhD
Medical College of Georgia

Eric Severson
Emory University

Chris Sjostrom, BS
University of Utah

Erick Tatro, BS
University of Pittsburgh

Priscila Teixeira
University of Sao Paulo

Scott A Tomlins, BA
University of Michigan-An Arbor

Cyruss Tsurgeon
Meharry Medical College

Margaret Walkup, MD
Univ. of North Carolina, Chapel Hill

Lai Wei, MD
University of Tennessee

Abigail Woodfin, PhD, BSc
Imperial College London

Yue Wu, MD, PhD
Yale University School of Medicine

Jie Xu, MD
Univ of Alabama at Birmingham

Xiaohui Zhang, M.Phil.
Harvard Med Sch

Welcome New Associate Members — Joined in 2005

Chengcheng Shen
University of Texas Southwestern Medical Center

Sandra Newman
Duquesne University

Mutaz Mohamed Ibrahi Ali, M. Sc
Omdurman Ahlia University

Kavita Krishnan, MD
UEIMS, Venezuela
Members who Contributed to the Educational Fund in 2005

Thank you!

James M. Anderson
Gary A. Boorman
Nancy L. R. Bucher
Byung Ho Choi
Kuan-Chih Chow
Arthur I. Cohen
Stanley Cohen
Marila Cordeiro-Stone
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Alta Wallington, Director of Marketing ..(301) 634-7948
thromosed segments from 20 consecutive autopsy cases of coronary thrombosis (1) involved more than 40,000 microscopic sections!

He observed that in every case the thrombi were anchored in fissures of the caps of atherosclerotic plaques. The fissures were about 300 to 400 microns in length, a size where fissures would likely be missed if one or only a few random histological sections of the thrombus were examined. The fissures tended to occur at the margins of plaques, where the edge of the cap attached to the uninvolved arterial wall. The adherence of the thrombus to the fissure occurred in the platelet-rich zone of the thrombus, the region where clotting is initiated. He concluded that almost all plaque hemorrhages were caused by tiny cracks in the cap that triggered thrombus formation when blood came in contact with the thrombogenic material contained inside of plaques.

In another massive undertaking, Constantinides employed the same approach to examine 10 consecutive autopsy cases of cerebral artery thrombosis (2). He observed that all thrombi were attached by their platelet-rich zones to tiny cracks in the caps of atherosclerotic plaques.

Subsequent studies by other investigators confirmed the observations of Constantinides, and it became accepted that thrombosis in atherosclerotic coronary and cerebral arteries is practically always initiated by local breaks in the surface of atherosclerotic plaques.

By the early 1960's a rabbit model of human atherosclerosis had been developed. Using this model Constantinides showed that the induction of breaks in the experimentally induced atherosclerotic plaques resulted in the formation of overlying thrombi. In rabbits with experimental atherosclerosis, but not in control rabbits, an induced burst of hypertension caused plaque fissures and overlying thrombosis.

An interesting characteristic of scientific progress is the frequency with which competing hypotheses are eventually found to contain valid elements. In the instance of arterial thrombosis research, there are elements of truth in most of the hypotheses that had been put forward. This likely reflects both the complexity of atherogenesis and the multiplicity of its complications.

Hypercoagulability remains an important detail of coronary and cerebral thrombosis and underlies the recommendation of daily intake of small doses of aspirin for individuals at risk for myocardial infarction or strokes. Where the hypercoagulability theory envisioned a systemic clotting disorder, Constantinide's findings pointed to localized clotting that occurred when a fissure allowed blood to come in contact with thrombogenic materials contained within a plaque.

Constantinides later suggested (3) that plaque fissures might occur all the time, but the rate at which thrombi grow, the size they attain, and their clinical consequences might depend on systemic factors, such as hypercoagulability and fibrinolysis, and local factors, such as stasis and turbulence. He further proposed that mechanical factors, such as bursts of hypertension, or the constant bending and torsion of coronary arteries with each ventricular contraction, could result in the formation of cracks in brittle atherosclerotic plaques.

The milestone research of Constantinides is a sterling example of the vital role of the individual investigator in advancing biomedical knowledge. The research enterprise of Paris Constantinides consisted of himself, who conducted some of the autopsies, a histology technician, the secretary who typed the manuscripts, and colleagues who provided some of the specimens. The research was supported by a small NIH grant.

Reference:
1. P. Constantinides
   Plaque Fissures in Human Coronary Thrombosis
   Journal of Atherosclerosis Research 6:1-17, 1966
2. P. Constantinides
   Pathogenesis of Cerebral Artery Thrombosis in Man
   Archives of Pathology 83:422-428, 1967
3. P. Constantinides, Ultrastructural Pathobiology,
   Elsevier Science Publishers, Amsterdam, 1984, p.115
Profiles in Pathology

It gives me great pleasure to announce the appointment of Professor Nancy L. Thompson, Ph.D., as Associate Dean for Graduate and Postdoctoral Studies, Brown University, effective January 30. Reporting directly to this office, Nancy will also maintain a dotted reporting line to Professor Sheila Bonde, Dean of Brown University's Graduate School.

After earning her B.S. degree from Cornell University and her M.S. degree from Rutgers University, Nancy came to Brown as a staff research assistant working with then-Vice President of Biology and Medicine Professor Pierre Galletti. Having earned a Ph.D. with Brown's Graduate Program in Molecular Biology, Cell Biology and Biochemistry and having served a postdoctoral traineeship at the National Institutes of Health, Nancy joined Brown's faculty as an assistant professor (research) of medicine (1989) and of pathology and laboratory medicine (1990). At present, Nancy serves as a professor (research) of medicine and of pathology and laboratory medicine at Brown University. In addition, Nancy serves as a research oncologist with the Division of Medical Oncology at Rhode Island Hospital and as deputy director of the Center for Cancer Research Development (CCRD) within Rhode Island Hospital's Center of Biomedical Research Excellence (COBRE).

Nancy's research focus is hepatocarcinogenesis with special emphasis on the gene expression, regulation and role of heterodimeric glycoprotein transporters. This work has been funded by research grants from the American Cancer Society, the National Institutes of Health, and the American Institute for Cancer Research. The author of more than 50 research articles and book chapters, Nancy has served as a reviewer on NIH and other public review panels and as a reviewer for multiple professional journals.

Nancy brings to her new position a wealth of professional experience in the career development of pre- and post-doctoral trainees, women, and minority scientists. In this context, Nancy has held many leadership roles in the service of professional societies and with the Federation of American Societies for Experimental Biology. Nancy also serves as co-principal investigator of a U.S. Department of Education GAANN training grant in pathobiology which aims to foster the creation of a pipeline for the recruitment, training, and mentoring of minority Ph.D. students entering careers in disease research. Moreover, Nancy is the past director of Brown's multi-departmental Graduate Program in Pathobiology, which focuses on pre-doctoral training in cancer biology, environmental pathology, immunology, and infectious diseases.

In her new role as associate dean for graduate and postdoctoral studies, Nancy will be responsible for overseeing the recruitment, integration, education, funding, career enhancement, and tracking of all graduate students and postdoctoral trainees of the Division of Biology and Medicine on College Hill, at Brown's seven teaching hospital partners, and at the Marine Biological Laboratory at Woods Hole. In this regard, Nancy will work closely with all members of our scientific community to promote an interdisciplinary educational journey that recognizes the applied and translational needs of today's society; increase the number of training slots; provide important professional development tools; and, in the process, strengthen Brown's standing as an innovative training environment.

Nancy brings energy, vision, and dedication to this newly created position. I am confident that her leadership will have a positive and eminently tangible impact on pre- and post-doctoral biomedical training at Brown. Please join me in congratulating Nancy on her new position, and on wishing her every success.

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Advancing Practice, Instruction and Innovation through Informatics

Frontiers in Oncology and Pathology Informatics

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Anyone interested in learning how informatics is impacting and transforming pathology and oncology is encouraged to attend. APIII is designed for academic and practicing pathologists and oncologists, researchers in biomedical informatics, residents, fellows, graduate students, computer support personnel and lab/practice managers. Industry-related developers, engineers, and marketing representatives also comprise a significant portion of the attendees.

Association for Pathology Informatics (API) Membership Meeting
Friday, August 18, 2006,
12:00 PM - 1:00 PM

The Association for Pathology Informatics (API), a joint-sponsor of APIII, will hold an annual business meeting at APIII 2006. This meeting is open to members as well as non-members who may be interested in joining API. The purpose of the API is to advance pathology informatics as an academic discipline and a clinical subspecialty of pathology. The main goal of the business meeting will be to update members on API organizational activities and progress. The meeting also provides an opportunity for potential new members to meet the API leadership and learn about our member services.

Registration information online at:
http://apiii.upmc.edu/

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http://apiii.upmc.edu/

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Calendar of Events

ASIP Annual Meeting at Experimental Biology 2006
April 1-5, 2006; San Francisco, CA
www.asip.org

International Society for Biological and Environmental Repositories 2006 Annual Meeting & Exhibits: The Repository of the Future
April 30 - May 3, 2006; Bethesda, MD
www.isber.org

APC/PRODS/PDAS 2006 Annual Meeting
July 12-15, 2006; Colorado Springs, CO
www.apcprods.org

Molecular Mechanisms of Human Disease
July 12-16, 2006; San Diego, CA
www.asip.org

Association for Molecular Pathology 2006 Annual Meeting & Exhibits
November 16-19, 2006; Orlando, FL
www.amp.org

Workshop on Vascular Matrix Biology and Bioengineering
March 15-18, 2007; Whistler Village, BC, Canada
www.navbo.org

ASIP Annual Meeting at Experimental Biology 2007
April 28-May 2, 2007; Washington, DC
www.asip.org

Association for Molecular Pathology 2007 Annual Meeting & Exhibits
November 7-10, 2007; Los Angeles, CA
www.amp.org

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