Welcome from the President
Daniel G. Remick, ASIP President

"The times they are a changin’.

As a native of Duluth Minnesota, it seems appropriate to start the President’s welcome message with a quote from Bob Dylan. At least two significant changes will occur during my presidency of ASIP. The first, already in progress, is the selection of a new Editor-In-Chief for The American Journal of Pathology (AJP). Kevin Roth, MD, PhD, our current Editor-In-Chief, elected to not renew his five-year contract in order to focus his considerable energies and talents on his new position as the Chair of Pathology and Cell Biology at Columbia University. A search committee was formed and I am pleased to announce that the ASIP Council has approved the appointment of Dr. Martha Furie as the next Editor-in-Chief effective January 1, 2018 (see page 19). ASIP wishes to thank Dr. Roth for his years of dedicated service and tireless efforts to improve AJP.

The second significant change that will occur is the replacement of our Executive Officer. Mark Sobel, MD, PhD, has served as our dynamic and effective Executive Officer for over 16 years. Dr. Sobel has elected to step down at this time due to health concerns. Because of the importance of the Executive Officer to our Society, a search committee has been formed and is working with an executive search firm to identify Dr. Sobel’s successor. Please see page 3 for more information. To help frame our discussion of the important attributes for the new Executive Officer, a survey was sent to the ASIP membership. The highest ranked attributes were experience with: running a scientific organization, representing the society in discussions with regulatory agencies, and budgets and human resources. Please join me in thanking Dr. Sobel for all he has done all these years for all of us within Pathology.

In addition to the changes we know will occur, other potential disruptions loom on the horizon. Currently there is intense interest in the physician-scientist workforce by the National Institutes of Health and other organizations. The concerns include the dwindling physician-scientist workforce and the length of time required to become an NIH-funded investigator. There is particular interest in the new American Board of Pathology physician-scientist pathway since we are the most recent discipline to formally approve such a pathway for board certification. ASIP will be working closely with the Association of Pathology Chairs on the issue of physician scientists within Pathology.

The NIH budget continues to be under assault despite strong bipartisan support for the enormous benefit provided by NIH funded investigators. ASIP will continue to monitor this issue and will work with FASEB and other pathology organizations as well as provide mechanisms for volunteers to advocate for a robust, sustainable, and increased NIH budget. While there are many challenges in the current political environment, our Society will keep a focus on ensuring that NIH funding is not diminished.

ASIP moved its offices in March to 1801 Rockville Pike, Rockville, MD, 20852, just 4 miles “up the Pike” from the FASEB campus in Bethesda. Since most communication with ASIP occurs electronically, the physical relocation should have had minimal impact on the membership. Members should be aware however, that there was a careful financial analysis of the benefits of moving to help ensure the long-term health of our organization. This is just one of the many examples of the value that was provided by having Dr. Sobel as our Executive Officer.

Finally, I would be remiss if I did not thank Dr. George Michalopoulos for his tenure as President last year. Planning for the two major changes, selection of the new Editor-in-Chief and Executive Officer, began with Dr. Michalopoulos, who laid a strong foundation to create stability within our Society.
2018 Annual Meeting
Vancouver, BC, Canada

“Misfolded Proteins, Association with Disease, and Diagnostic Implications”

Sunday, March 18, 2018
1:30 PM – 4:30 PM

Moderators:
Monte S. Willis, MD, PhD
University of North Carolina at Chapel Hill
Chapel Hill, NC

Mark E. Sobel, MD, PhD
American Society for Investigative Pathology
Rockville, MD

1:30 PM – 1:35 PM
Misfolded Proteins: Introduction and Overview
Mark E. Sobel, MD, PhD
American Society for Investigative Pathology
Rockville, MD

1:35 PM – 2:15 PM
β-Amyloid Oligomers in Aging and Alzheimer’s Disease
Karen Hsiao Ashe, MD, PhD
University of Minnesota
Minneapolis, MN

2:15 PM – 3:00 PM
Misfolded Proteins in Type 2 Diabetes: A New Therapeutic Target for Intervention in Associated Heart Failure and Neurologic Deficits
Monte S. Willis, MD, PhD
University of North Carolina at Chapel Hill
Chapel Hill, NC

3:00 PM – 3:40 PM
Misfolded Proteins in Heart Failure
Federica del Monte, MD, PhD
Medical University of South Carolina
Charleston, SC

3:40 PM – 4:20 PM
Misfolded Proteins in Heart Disease: Perspectives of a Practicing Cardiac Pathologist
James Stone, MD, PhD
Massachusetts General Hospital and Harvard Medical School
Boston, MA

4:20 PM – 4:30 PM
Final Thoughts on Misfolded Proteins: Panel Discussion
Mark E. Sobel, MD, PhD
American Society for Investigative Pathology
Rockville, MD
Call for Nominations for the ASIP 2018 Election

In 2018, ASIP Regular and Next-Generation Scientist members will be voting for the following open positions for terms to begin July 1, 2018:

**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.

**Publications Committee Chair-Elect**
The Chair-Elect serves for one year and then proceeds to a three-year term as Chair. The Publications Committee is responsible for overseeing journal operations for The American Journal of Pathology and The Journal of Molecular Diagnostics. The Chair is a voting member of the ASIP Council.

**Research and Science Policy Committee Chair-Elect**
The Chair-Elect serves for one year and then proceeds to a three-year term as Chair. The RSPC is responsible for overseeing science policy advocacy. The Chair is a voting member of the ASIP Council.

**Two Meritorious Awards Committee Members**
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, Robbins Distinguished Educator, Rous-Whipple, Outstanding Investigator, Cotran Early Career Investigator, and Young Scientist Leadership).

**Two Nominating Committee Members**
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.

Submit Your Nominations to dpellerin@asip.org for candidates for any of the above positions and attach a brief explanation of why you think they should be considered. You may attach candidates’ CVs if you wish. Self-nominations are encouraged!

Executive Officer Search
The American Society for Investigative Pathology (ASIP) has retained Sterling Martin Associates to search for its next Executive Officer. The position is located in Rockville, MD outside of Washington, DC.

**Executive Officer**
ASIP is seeking an Executive Officer who will report to and work with the Council and its Executive Committee to develop and implement the Society’s strategic initiatives. S/he will be expected to have the energy and vision to achieve the Society’s goals. In addition to overseeing the day-by-day management of the Society, the Executive Officer will oversee continuing medical education programs and provide support for planning ASIP’s annual meetings and conferences. S/he will manage the Journal staff and will be responsible for overseeing the publication of ASIP’s journals as well as the Association’s newsletters and other print publications. In addition, s/he will manage ICPI operations and publication of its Directory of Pathology Training Programs.

The Executive Officer will serve as the face of ASIP, both internally and externally. S/he will be an excellent communicator and relationship-builder, with strong leadership skills. Finally, the Executive Officer will be responsible for promoting a dynamic, efficient organizational culture that embraces growth, ensures accountability, and maintains ASIP’s long tradition of transparency and integrity.

**Ideal Background & Experience Qualities & Characteristics**
Qualified candidates for the position of Executive Officer will be visionary leaders and inspirational spokespeople with a successful record of accomplishment in executive management. Candidates will be expected to understand, embrace, and advance ASIP’s mission as the “premier research society for pathology” and to appreciate and support the role that its members play.

To apply, please send a cover letter and current résumé or curriculum vitae (Microsoft Word® format preferred) to asip@smartinsearch.com. A well-crafted cover letter outlining how your background and experience relate to the position is considered an important part of the candidate review process.

All applications will be acknowledged. ASIP is an equal opportunity employer.

For more information, please contact:
Sterling Martin Associates
1025 Connecticut Avenue, NW | Suite 1000
Washington, DC 20036
www.smartinsearch.com
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<th>Saturday, April 21</th>
<th>Sunday, April 22</th>
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<td><strong>AM</strong></td>
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| Meet the Mentor Breakfast  
T. Parry 7:30 AM | Molecular and Cellular Basis of Cancer: Pathobiology Course for Research Scientists: Infectious Pathogens and Cancer  
W.B. Coleman  
D. Bielenberg 8:30 AM | Molecular and Cellular Basis of Cancer Symposium: Cellular Adaptive Response in Tissue Injury, Tumorigenesis and Cancer Progression  
W-X. Ding  
L. Wang 2:00 PM | **PM** | **PM** | **AM** |
| **PM** | **PM** | **PM** |
| Symposium: Blood Vessel Club™: Inflammation, Survival, and Death in Atherosclerosis  
J. Homeister  
D. Karunakaran 2:00 PM | Molecular and Cellular Basis of Cancer Symposium: Cellular Adaptive Response in Tissue Injury, Tumorigenesis and Cancer Progression  
W-X. Ding  
L. Wang 2:00 PM | Molecular and Cellular Basis of Cancer Symposium: Cellular Adaptive Response in Tissue Injury, Tumorigenesis and Cancer Progression  
W-X. Ding  
L. Wang 2:00 PM | **AM** | **PM** | **PM** |
| **AM** | **PM** | **AM** |
| NextGen Science: New Discoveries of Graduate Students and Post-doctoral Fellow Rising Stars  
T.A. Reaves  
E. Medina 8:30 AM | Molecular and Cellular Basis of Cancer: Breast Cancer and Gene Regulation Workshop  
Ductal Carcinoma In Situ - Discerning Aggressive Versus Benign Disease Using Molecular Features  
P. Iannaccone  
D. Williams  
Q. Yan 2:00 PM | Committee for Career Development & Diversity Workshop and Breakfast: Mentor/MENTEE Relationships: a Two-Way Street  
M. Preziosi  
V. Centres-Shannon 7:00 AM | **PM** | **PM** | **PM** |
| **PM** | **PM** | **PM** |
| Molecular and Cellular Basis of Cancer Symposium: EMT, An Ever-Changing Process of Cancer Progression  
D. Stairs 8:30 AM | Liver Pathobiology Workshop: Hepatobiliary Disease  
K. Nejak-Bowen 8:30 AM | ASIP ROUS-WHIPPLE AWARD LECTURE: Decoding Novel Resolution Mediators & Mechanisms in Infectious Inflammation and Tissue Regeneration  
C.N. Serhan 4:00 PM (Presented during the Presidential Symposium) | **AM** | **PM** | **AM** |
| **PM** | **PM** | **PM** |
| EB-Wide Tang Lecture 6:00 PM | VAMP Symposium: Inflammation, Immunopathology, and Mucosal Disease Mechanisms  
A. Nusrat  
F.W. Luscinkas 8:30 AM | The Histochemical Society (HCS) Member Awards Presentation, Business Meeting and Reception 6:00 PM | **PM** | **PM** | **PM** |
| **AM** | **PM** | **PM** |
| XVIIIth Annual Workshop on Graduate Education in Pathology: Wellness for Students and Faculty  
W. Mars  
B. Ducatman 11:45 AM | EB-Wide Reception 7:00 PM | Molecular and Cellular Basis of Cancer: Cell Injury Workshop: Tumor-Associated Parallels with Fibrosis  
A. Wells 8:30 AM | **PM** | **PM** | **AM** |
| **PM** | **PM** | **PM** |
| XVIIIth Annual ASIP/AAA Career Development and Mentoring Program and Lunch: The IDP: Highway to Success  
A. Duncan  
H. Rutledge 11:45 AM | XXIth Annual ASIP/AAA Career Development and Mentoring Program and Lunch: The IDP: Highway to Success  
A. Duncan  
H. Rutledge 11:45 AM | | **AM** | **PM** | **AM** |
**ASIP Annual Meeting**

**Tuesday, April 24**

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<tr>
<td><strong>COTRAN EARLY CAREER INVESTIGATOR AWARD LECTURE:</strong> Cardiotropism in Heart Failure P. Alcaide 8:30 AM</td>
<td><strong>SIPMeT Symposium:</strong> Immunopathogenesis of Cancer: From Basic Knowledge to Markers for Cancer Diagnosis and Therapeutics M. Locati 2:00 PM</td>
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<tr>
<td><strong>Society of Cardiovascular Pathology Symposium:</strong> Nonconventional Players in Heart Disease S.J. Stone T. Parry 9:30 AM</td>
<td><strong>Symposium:</strong> What’s the Big Deal about Big Data: Mining Molecular Epidemiology for Insights into Pathogenesis R.N. Mitchell M.E. Sobel 2:00 PM</td>
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<td><strong>ACVP Symposium:</strong> Vector-Borne Diseases: Bridging Scale A.S. Davis N. Gottdenker 8:30 AM</td>
<td><strong>ASIP OUTSTANDING INVESTIGATOR AWARD LECTURE:</strong> Integrative Molecular Pathological Epidemiology: Creating Scientific Frontiers for Discovery from Large-Scale Pathobiological Studies S. Ogino 2:00 PM (Presented during the What’s the Big Deal about Big Data Symposium)</td>
</tr>
<tr>
<td><strong>ASIP Scientific Sleuthing of Human Disease for Undergraduate Students and High School Teachers and Students</strong> K. Nejak-Bowen M.B. Furie 9:30 AM</td>
<td><strong>SIG Night</strong> 5:30 PM</td>
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<td><strong>Lunch and Learn:</strong> Science, Statistics and Getting it Right D. Milner 11:45 AM</td>
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**Visit the ASIP Office / Member Networking Lounge**

San Diego Convention Center

Saturday – Tuesday 8:00am – 5:00pm

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**SIG Night**

**Tuesday, April 24, 2018**

5:30 PM

**ASIP Scientific Interest Group Networking**

**Poster Discussions:**
- Breast Cancer
- Club Hepatomania™
- Der Schadenklub (Cell Injury & Repair)
- Digital and Computational Pathology
- Gene Expression
- Immunohistochemistry & Microscopy
- Inflammation/Immunopathology
- Molecular Diagnostic Pathology
- Neuropathology
- Regenerative Medicine and Stem Cells
- Vascular & Mucosal Pathobiology
- Veterinary and Comparative Pathobiology

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**To promote the participation of early career investigators in scientific meetings and conferences, we are pleased to announce the ASIP George K. Michalopoulos Junior Faculty Travel Awards**

The Award recognizes the outstanding research being conducted by Regular and NextGen members who are employed as Junior Faculty (or equivalent) at institutions around the world.

**Candidates must:**
- Be an ASIP Member (Regular or NextGen) in good standing.
- Have achieved a professional degree (DVM, MD, PhD or equivalent) at least two years and no more than seven years prior to submitting application. Exception: if you were enrolled in clinical training you may request an extension for up to two additional years.
- Hold the position of Instructor, Assistant Professor, or equivalent.
- Submit a CV (Brief NIH curriculum vitae, maximum 5 pages).
- Submit a brief (maximum one page) description of your research project goals and aims and how attendance at the scientific meeting will enhance your research program.
- Submit abstract number and title of an abstract. You do not need to be first author of the abstract if one of your trainees is the first author.
- Register for the conference (attendance at the meeting is required or the Travel Award will be withdrawn).
- Attend the ASIP Business Meeting and Awards Presentation (attendance at the Business Meeting and Awards Presentation is required or the stipend will be rescinded).

**asip.org/awards**
Applications Now Open!

Trainee Travel Awards
2018 Annual Meeting at EB
April 21 - 25, 2018 • San Diego, California

ASIP Trainee Travel Awards

Gotlieb Undergraduate Student in Pathobiology Travel Award
In 2013, Dr. Avrum I. Gotlieb, ASIP member and past President, established the Gotlieb Family Fund for Undergraduate Education in Pathobiology to support an undergraduate student with a $750 travel award to attend an ASIP scientific meeting. Like the other ASIP Trainee Travel Awards, an abstract must be submitted to ASIP topic categories at the annual meeting. Applicants must be undergraduate student members of ASIP. Undergraduate students are also eligible for other ASIP Trainee travel awards.

ASIP Promoting Diversity in Science Trainee Travel Award
To promote the entry of under-represented scientists into the basic / translational/clinical science community, the American Society for Investigative Pathology (ASIP) has developed Promoting Diversity in Science Trainee Travel Awards. These awards honor excellence in biomedical research focused on understanding mechanisms and classification of disease and provide travel awards to ASIP Trainee members (undergraduate students, pre-doctoral candidates, post-doctoral trainees) who identify with a restricted list of under-represented-in-science ethnic groups (see asip.org/awards/diversity.cfm) to encourage participation in ASIP scientific meetings and conferences. Awardees are selected on the basis of merit by the ASIP Program Committee. Award stipends range from $250 to $750.

ASIP International Trainee Travel Award
The ASIP International Trainee Travel Award promotes the entry of young scientists from economically under-developed countries into the mainstream of the science community and encourages the participation of young investigative pathologists in meetings and courses sponsored or supported by the American Society for Investigative Pathology. Candidates must be ASIP trainee members who reside in and are citizens of Hinari A countries (see who.int/hinari/eligibility/en) and must submit their abstract to an ASIP topic category. Award stipends range from $250 to $750.

Excellence in Cardiovascular Research Travel Award
To promote the entry of young scientists who are studying cardiovascular pathobiology into the mainstream of the basic / translational/clinical science community, ASIP offers special trainee travel awards for excellence in cardiovascular research. Candidates must be ASIP trainee members whose abstracts include data related to cardiovascular pathobiology and must submit their abstract to an ASIP topic category. Award stipends range from $250 to $750.

HCS-Sponsored Trainee Travel Award
To promote the entry of young scientists who use histochemical techniques into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in the ASIP Annual Meeting at Experimental Biology, the Histochemical Society is offering a limited number of Trainee Travel Awards of $750 each to offset travel expenses for trainee members of the Histochemical Society and/or ASIP to attend the Experimental Biology Meeting. The ASIP Program Committee will select the recipients based on the scientific abstracts submitted to ASIP topic categories, which must include data based on the use of histochemical techniques. Abstracts will be selected for presentation in either poster sessions or in minisymposia.

Information & Deadlines

The following awards require submission of an abstract to an ASIP topic category at the Experimental Biology 2018 Meeting from an ASIP trainee member (undergraduate/graduate/medical/veterinary student, pathology resident, postdoctoral fellow). For details on abstract submission, visit experimentalbiology.org/2018/Abstracts/Abstract-Submission.aspx

During the abstract submission process, applicants will be given the opportunity to apply for ASIP Trainee Travel Awards. ALL APPLICANTS MUST BE ASIP TRAINEE MEMBERS AND MUST FIRST APPLY FOR AN ASIP TRAINEE AWARD! Once you apply for the ASIP Trainee Travel Award you may apply for additional awards (excellence in research in the areas of cardiovascular, histochemical techniques; promoting diversity in science) depending on your membership category and eligibility. The ASIP membership information you provide when you submit your abstract is critically important for the online system to determine which other travel awards you can apply for. If you have any questions about your membership category status, contact membership@asip.org before you submit your abstract. General information about awards for undergraduate students and pre- and post-doctoral trainee ASIP members can be found at asip.org/awards.
2018 Annual Meeting at

April 21 - 25, 2018 • San Diego, California

Abstract Deadline
December 7, 2017

Early Registration is open!

www.ASIP.org/meetings/2018
Do you need guidance for the ASIP 2018 Annual Meeting at EB?

Join **PathFinders**

**A mentor:**
- provides expert information and knowledge
- can see where you need to improve where you yourself cannot
- finds ways to stimulate your personal and professional growth
- offers encouragement and help keep you going along your path to success
- can connect you to appropriate networks
- is a sounding board so you can bounce ideas off them for an unfiltered opinion
- has the experiences you can learn from to prevent beginners’ mistakes
- is **FREE** = priceless

More information will be sent once pairing has been completed.

Pathfinders is a mentoring opportunity for first-time attendees to the ASIP Annual Meeting at Experimental Biology.

This program was created to offer guidance and build camaraderie between ASIP trainees and regular members and offer guidance to trainees who attend the meeting without their institutional advisor. By leveraging the guidance and expertise of current ASIP members, this program will allow trainees to be introduced to the Society on a more personal level, and to maximize their conference experience.

Trainees are matched with a mentor (an ASIP member who is actively engaged with the organization), based on their interests and/or availability.

**Meet a Mentor and maximize your conference experience based on YOUR interests!**

Path **Forward**

Join a year-round mentoring opportunity to be continued with a mentor **AFTER** the Annual Meeting

What can you expect from your mentor?

- Mentor pairing and Contact Information
- Communication of your Choice
- Face-to-Face Meeting
- Personal Society Introductions
- Matches based on their Interests
- CV Material
- Published Material and More!

[ASIP.org/PathFinders](ASIP.org/PathFinders)
This summer I was honored to work on a research project at the University of Pittsburgh in the Summer Research Opportunity Program in Pathology (SROPP) sponsored by the American Society for Investigative Pathology (ASIP). This program presented me the opportunity to continue my honors thesis project in the School of Nursing at the University of Pittsburgh. Throughout the summer, I was mentored regularly by Dr. Cecelia Yates, an investigative pathologist, who specializes in wound healing and tissue regeneration. I was also co-mentored by Dr. Nahed Ismail, a clinical microbiologist and immunologist with expertise in pathogen-associated inflammation. On a weekly basis, I attended lab meetings, journal clubs, and faculty lectures, which expanded my understanding of the research field and exposed me to current projects in various topics across the University. The majority of my time, however, was dedicated to the laboratory.

My research project focused on the dynamic interplay of vitamin D deficiency and the microbiome because they contribute to chronic inflammation and inhibitors of anti-inflammatory pathways as seen in type 2 diabetes mellitus (T2D). Previous literature has suggested an alteration of the microbiome in the presence of T2D (Larsen et al., 2010). Specifically, a link has been suggested between compositional dysbiosis of the microbiome and the disease; this denotes that a shift of the bacteria that inhabit the gut has been noted in which beneficial, butyrate-producing bacteria are decreased and opportunistic pathogenic bacteria are increased (Qin et al., 2012). Furthermore, notable risk factors - including pre-diabetes, vitamin D deficiency, and ethnicity - have also been linked to altered microbiota. This study in its entirety is intended to bridge some of the gaps in knowledge with regard to the specific alteration that takes place as it relates to patients deemed at-risk, as well as shed light on this alteration as a cause or consequence of T2D.

My aim this summer was to collect preliminary data using diabetic and nondiabetic porcine fecal samples and known bacteria of interest that are reported in the literature to confirm the bacteria are in fact of interest and to determine the functional role of these microbiota to the diseased state. I compared microbiota between diabetic and nondiabetic pigs using bacteria extracted and isolated from fecal samples. Lactobacillus, Roseburia, Bacteroides, and Prevotella were isolated and analyzed by qPCR. These bacteria are all genus-level clusters that are altered (either through increased or decreased volume) in the diabetic microbiome (Ciubotaru et al., 2013; Qin et al., 2012). Roseburia and Bacteroides were found to be significantly increased in the nondiabetic microbiome; in contrast, Lactobacillus, a generally beneficial bacterial genus, showed only a small increase in the diabetic microbiome.

Roseburia has been shown to be increased in the nondiabetic microbiome as it is a butyrate-producing bacterium (Ciubotaru et al., 2015; Karlsson et al., 2013; Qin et al., 2012). Four species of Lactobacillus likewise are increased in the diabetic microbiome (Karlsson et al., 2013). Interestingly, Bacteroides has been shown to correlate with increased expression of proinflammatory genes, vitamin D deficiency, and high serum lipopolysaccharide (LPS) and to be increased in the diabetic microbiome (Ciubotaru et al., 2015; Karlsson et al., 2013; Qin et al., 2012). However, our results showed an increase in this cluster in the nondiabetic sample. This may indicate species-specific alterations that need to be further studied in this genus.

As a nursing student, opportunities such as offered by the ASIP, are rather uncommon. This program permitted me to continue my previous work on my honors research thesis on diabetes and the microbiome in the School of Nursing at the University of Pittsburgh. The role of the nurse in basic science research is a rather unique path. I believe my perspective as a nursing student has allowed me to keep the research very clinically focused, truly making this a strong translational research project.

Overall, this program afforded me time to dedicate to this project in the laboratory and provided me with an enriched research experience. This program is exceptional in preparing students for careers in science and/or medicine. The diverse exposure to research projects from past students and first-rate faculty helps illuminate the many paths a scientific career can take. I am thankful to the directors of this program, Carol Williams and Dr. Wendy Mars, and to Dr. Cecelia Yates and Dr. Nahed Ismail for their time and expertise; their guidance and encouragement have helped me tremendously in the development of this project from start to finish. Dr. Yates, my primary mentor, challenged me this summer as my project evolved and with her support, I optimized my experimental design and approach. I will carry the lessons that I learned with her into the future of my career as a nurse and basic science researcher.
Ellah Nzikoba  
Boston Children’s Hospital  
Dana-Farber/Harvard Cancer Center:  
Continuing Umbrella of Research Experience (CURE)

Thanks to the Summer Research Opportunity Program in Pathology (SROPP) and the funding support from the American Society for Investigative Pathology (ASIP), I was able to spend the 2017 summer working in Dr. Diane Bielenberg’s cancer biology laboratory at Boston Children’s Hospital and Harvard Medical School. Returning as a student in the Continuing Umbrella of Research Experience (CURE) program in the Dana-Farber/ Harvard Cancer Center, I was able to explore cutting-edge research with a diverse group of students and participate in laboratory bench work, seminars, discussions and journal clubs in a stimulating academic environment.

My project this summer was focused on targeting neuropilin-2 (NRP2) as a cancer therapy. NRP2 is a transmembrane receptor for vascular endothelial growth factor (VEGF) and its expression is upregulated in endothelial cells during tumor angiogenesis. NRP2 is also expressed in tumor cells and stimulates migration. We hypothesized that inhibiting NRP2 in tumor-associated endothelial cells or in tumor cells may reduce tumor growth and metastasis. Previous experiments have shown that silencing NRP2 in tumor cells (in vitro) followed by injection in vivo in mice resulted in significantly smaller tumor size. However, the vascular dependence on Nrp2 in tumors is untested.

I specifically examined this vascular dependence by comparing bladder tumor growth in wild-type and Nrp2-deficient mice. Luciferase-labeled mouse bladder cancer cells were injected orthotopically into syngeneic wild-type mice (Nrp2+/+ [n=5]) and Nrp2 knockout mice (Nrp2−/− [n=5]). Tumor growth was followed using bioluminescence imaging for 3 weeks. At the end of the experiment, mice were euthanized and necropsied. Tumor weights were compared between the groups. The average tumor weight was less in the Nrp2-lacking mice compared to wild-type mice but the data did not reach statistical significance. We plan to repeat these studies using a larger cohort size and hope to present our findings at the ASIP 2018 Annual Meeting at Experimental Biology in April 2018.

Besides gaining practical experience in a translational science laboratory, I also increased my knowledge in the areas of cell biology, cancer biology, and histology this summer. The exposure to numerous medical doctors and graduate students through CURE programming and the laboratory experience where I interacted with other undergraduates, master students and research fellows helped me to understand more about a career in the biomedical sciences and strengthened my dedication to this path. Furthermore, I have been blessed with the invaluable mentorship of Dr. Bielenberg, who continues to guide me in my career development. Thanks to the ASIP and the SROPP for this extensive and beneficial opportunity.

References:


Heather Moore  
continued
over the course of the 2017 summer, I was fortunate enough to be provided with a unique opportunity by the Summer Research Opportunity Program in Pathology (SROPP), sponsored by the American Society for Investigative Pathology (ASIP), and Dr. Nahed Ismail at the University of Pittsburgh Medical Center (UPMC) to gain invaluable experience working on challenging clinically-relevant problems in both immunology and pathology. Over the course of this experience, I was mentored by Dr. Ismail and Dr. Cecelia Yates and I also worked closely and learned from Dr. Muhamuda Kader. These mentors and the opportunities made available by the SROPP allowed me to gain valuable insight into the interplay between medicine and academia, delve further into research projects that I find fascinating, and hopefully also produce meaningful progress in the development of a clinical solution for fatal human monocytic ehrlichiosis (HME).

During my time in the Ismail Lab, I was able to design and complete my own projects as well as analyze data, run experiments, and synthesize conclusions for other data and procedures in the lab. My work centered around researching potentially clinically-relevant drugs for the treatment of HME, as well as the characterization of type I interferon (IFN) in the immune response to Ehrlichia species. Ehrlichia species are lipopolysaccharide (LPS)-negative obligate intracellular bacteria that primarily infect monocytes and cause HME, the symptoms of which can include sepsis and even death in 4% of cases. Ehrlichia species hijack cellular functions, induce autophagy for their own survival and disseminate to other cells by being phagocytosed. HME is currently without an effective clinical treatment and I endeavored to test potentially relevant drugs and their effect on the immune response to Ehrlichia infection.

With an understanding that Ehrlichia require autophagy for survival, three autophagy-blocking drugs, torin, rapamycin, and 3-MA, were chosen to be tested. In the experiment, we observed how the different drugs affected autophagy, macrophage phenotype polarization and the subsequent immune response, and bacterial burden. This was accomplished through PCR and flow cytometry. The data obtained indicate that 3-MA should be further studied as a promising drug for the treatment of Ehrlichia infections. This particular drug severely inhibits autophagy by inhibiting class III PI3K, which decreases bacterial burden, and also inhibits phagocytosis through the GSK kinase – a key factor since Ehrlichia species are dependent on both autophagy and phagocytosis. Furthermore, the encouraging data obtained make this drug of particular interest for future studies.

While working to characterize the influence of type I IFN on the immune response to Ehrlichia infection, I was able to demonstrate both by Western blot and flow that type I IFN plays a significant role in inducing autophagy. Using ELISAs, I was then able to show that preventing autophagy through the use of anti-IFN receptors leads to a strong decrease in bacterial burden by showing that no interleukin(IL)-1β is produced in IOE-infected and anti-IFN receptor treated cells. Production of IL-1β is indicative of inflammasome activation, caused by the fatal form of Ehrlichia (IOE); hence, the lack of IL-1β production points to blocked autophagy, through the blocking of type I IFN receptors, which leads to decreased bacterial burden. These data will play an important role going forward when trying to understand the immune response to infection, in particular infection with Ehrlichia, given the context and focus of the Ismail Lab.

My work extended beyond what is briefly outlined here and will hopefully prove to be influential in upcoming research and lend itself well to clinical solutions for Ehrlichia infection. I believe that 3-MA can be the solution to this currently poorly-treated disease but will need to undergo further stringent and in-depth research before my hypothesis can be corroborated. Additionally, the data on type I IFN will lend itself well to future studies regarding autophagy as well as the general understanding of the immune response to infection.

Overall, this was an enriching experience that allowed me to complete meaningful work and learn from knowledgeable mentors. Furthermore, this experience has allowed me to develop valuable skills and ways of thinking that will serve me well in my future biomedically-related research.
If you have not renewed your ASIP membership, please do so immediately to avoid the possible suspension of your membership. To renew your membership, please use the following link to log into MemberClicks and enter your username and password:
Please be sure to review you member profile to ensure your mailing address and contact information is accurate. If you find any discrepancies, you will be able to modify your information.

If you do not have access to your login credentials, you can request them by contacting the ASIP Membership Department by phone 240.283.9712 or email membership@asip.org. In addition to renewing your membership, you can also make a donation to support ASIP Career and Educational Initiatives for young investigators. Thank you for your continued support.

Have you uploaded your photo to your MemberClicks Profile?
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3. Enter your username and password and click the Log In.
4. Click on My Profile
5. Click on the Edit Profile tab under the My Status white box.
6. Click on Change Profile Picture
7. Upload!

It's easy to nominate a colleague or friend to become a new member!
Do you have a colleague or friend who you would like to nominate to become an ASIP member? Why not participate in the ASIP Member Nomination Campaign? We have simplified this process by creating a web-based form for you to use. Simply click on the following link:
http://www.asip.org/invite/ and follow these 4 easy steps:

1. Fill in your name and email address.
2. Fill in your colleague's name and email address.
3. Add your colleague's name and your name in the areas indicated on the form.
4. Click the “Invite my Colleague” button to submit the form.

The ASIP Membership Department will take it from there and follow-up with your nominee. In addition to the benefit of growing and diversifying the ASIP membership, ASIP Regular members who nominate a friend or colleague eligible for ASIP Regular and are approved for membership will receive a $25 reduction in their next year’s (2018) membership dues (up to the total amount of the annual membership fee). ASIP Trainee members who nominate a friend or colleague eligible for trainee member and are approved for membership will receive a $5 reduction in their next year’s (2018) membership dues (up to the total amount of the annual membership fee).

When inviting individuals to join ASIP, please be aware that ASIP now offers an alternative Regular membership for new members for up to the first three years of membership called “Next-Generation Scientist.” The one-year Next-Generation Scientist member dues are discounted 50% of the Regular member dues rate. The Next-Generation Scientist member will receive all the member benefits of ASIP Regular members EXCEPT the opportunity to receive a discount on author page charges and open access fees for accepted manuscripts published in AJP.

Let’s work together to build a stronger Society!
Dr. Emanuel Rubin has been an advocate for higher education nearly all his adult life. With regard to his own studies, he earned an undergraduate degree from Villanova University, followed by a medical degree from Harvard University and an internship at Boston City Hospital. After a two-year stint in the US Navy, he completed a residency at Children’s Hospital of Philadelphia. This was followed closely by a research fellowship in pathology and an advanced clinical fellowship for the American Cancer Society -- both undertaken and completed at Mount Sinai Hospital in New York. Dr. Rubin has always emphasized the importance of medical education and teaching. His major contribution to medical education has been his *Textbook of Pathology*, first published in 1988 and named the best medical textbook in 1989 by the American Medical Writer’s Association. This book, the first pathology text to employ graphics as a dynamic and integral part of the material, has been translated into several languages including Spanish, Portuguese, Italian, and Chinese, among others; it is currently in its seventh edition here in the United States.

Dr. Rubin is also a renowned educator who established a student Honors Program at Thomas Jefferson University and was widely perceived as one of the most effective teachers there, according to Dr. Joseph S. Gonnella, Dean Emeritus of the Center for Research in Medical Education and Health Care at Sidney Kimmel Medical College at Thomas Jefferson University.

Dr. Ivan Damjanov, a mentee of Dr. Rubin and professor of pathology at the University of Kansas Medical Center, affirms this perception: “Manny Rubin is and always has been a first class teacher and charismatic leader… He emphasizes team play and promotes camaraderie among the faculty, as well as between the teachers and the students.”

With regard to his laboratory research, Dr. Rubin continues to be funded by the National Institutes of Health, as he has for over 50 years. Through his published papers, he has added significantly to our understanding of various diseases, particularly those caused by alcohol and those affecting the liver.

Dr. Rubin is a long-time member of ASIP and has spent his entire professional life as a hospital pathologist. He has led three major pathology departments: at The Mount Sinai School of Medicine in New York, Hahnemann University Medical College and Thomas Jefferson University in Philadelphia. He has been appointed the Gonzalo E. Aponte Distinguished Professor of Pathology, Anatomy and Cell Biology and Chairman Emeritus of the pathology department at Thomas Jefferson University. Additionally, he is an attending pathologist and senior autopsy consultant at Thomas Jefferson University Hospital.
In September 2017, members of the American Society for Investigative Pathology gathered in Pittsburgh PA for the third Pathobiology for Investigators, Students, and Academicians (PISA 2017) meeting, which was hosted by Dr. George Michalopoulos (ASIP Past-President; http://path.upmc.edu/chair.htm) and the Department of Pathology at the University of Pittsburgh (http://path.upmc.edu/). The theme for PISA 2017 was Genome and Environment: Implications in Development, Regeneration, Injury, Immunity, and Malignancy (http://pisa2017.org/). The scientific program was assembled by the PISA 2017 Steering Committee (http://pisa2017.org/organizers/), which was chaired by Dr. Satdarshan Paul S. Monga, and included Drs. Stan Cohen, Bill Coleman, Piyali Dasgupta, Phil Iannaccone, Rick Mitchell, Kari Nejace-Bowen, Mark E. Sobel (ASIP Executive Officer), Greg Tsongalis, and Cecelia Yates. Ms. Tara Snethen (ASIP Director of Meetings) was the primary staff liaison from the ASIP and she was helped by Lisa McFadden, Gina LaBorde, and Dia Pellerin. In addition, kudos to Chhavi Chauhan, Henry Carter and Emily Essex in the ASIP Journal Office for facilitating the publication of the PISA 2017 abstracts in The American Journal of Pathology. The meeting venue was proximal to the University of Pittsburgh campus, enabling substantial involvement by faculty members and trainees from the University of Pittsburgh. The meeting provided an ideal setting for the exchange of scientific ideas and information.

The scientific program for the two and a half day-long PISA 2017 meeting was exceptional (http://pisa2017.org/program/), and featured eight scientific sessions on a variety of basic science and translational research topics, including (1) microbiome, junctions, injury, and infections, (3) inflammation, resolution, and wound healing, (3) cancer-associated stoma and tumor immunology, (4) premetastatic niche and regulation of tumor metastasis, (5) cancer epigenetics, (6) the role of biopsy in precision medicine, (7) diagnostic imaging modalities, and (8) signaling and therapeutic agents. Each session included invited presentations as well as abstract-driven presentations. Biographical information corresponding to the invited speakers can be found on the PISA 2017 website (http://pisa2017.org/speaker_bios/). The complete listing of invited presentations and abstract-driven presentations can also be found on the PISA 2017 website (http://pisa2017.org/program/). Participants at PISA 2017 contributed 92 abstracts that were programmed into poster sessions on (i) cancer, (ii) immunology and inflammation, (iii) kidney and liver pathobiology, (iv) neuropathology, (v) pulmonary pathobiology, and (vi) regenerative medicine and stem cells. Most abstracts were published in the October 2017 issue of The American Journal of Pathology, both in print and online. Posters associated with each abstract were available for viewing from the first day of the meeting, and several opportunities were provided for poster discussions. The main poster discussion session was held on the second day of the meeting. In many cases, posters were presented by trainees, all of whom did a great job presenting their research and answering questions during the discussions.

PISA 2017 was attended by >125 people, including a substantial number of trainees. To support trainee education, PISA 2017 featured a Lunch and Learn workshop on the topic of “Science, statistics, and getting it right” (http://pisa2017.org/documents/LUNCHANDLEARN-PracticalStatistics-MILNERPISA2017.pdf). The workshop was conducted by Dr. Dan Milner (American Society for Clinical Pathology, Chicago IL), and sponsored by the ASIP Committee for Career Development and Diversity, and the ASIP Education Committee. This session was very well attended and beneficial to all participants.

Of equal importance to the trainees and junior faculty in attendance was the opportunity to network during the meeting with more senior investigators. These networking opportunities included lunches on each day of the meeting, the poster viewing session that took place at the end of the first day of the meeting, the formal poster presentations on the second day of the meeting, and during various coffee breaks.

To support attendance at PISA 2017, a number of travel awards were given, including one A.D. Sobel – ASIP Education Fund Scholar (presented to Zachary S. Wilson), five ASIP Trainee Travel Awards (presented to Sven Flemming, Ronik Khachatoorian, Brandon Lantino, David J. Li, and Anny-
Claude Luissint), one Promoting Diversity in Science Trainee Travel Award (presented to Evan R. Delgado), one ICPI Trainee Travel Award (presented to Hanumantha Rao Madala), two Rojkind-Monga Trainee Travel Awards for Excellence in Liver Pathobiology Research (presented to Amanda M. Clark and Eric K. Kwong), and one Lawrence and Marion Muller Memorial Trainee Travel Award for Excellence in Neurodegeneration Research (presented to Shyanne Page). In 2016, the family of ASIP Past-President George Michalopoulos announced funding for the George K. Michalopoulos Junior Faculty Travel Award Program, which provides travel funds for junior faculty to attend PISA and other ASIP scientific meetings. For PISA 2017, two George K. Michalopoulos Junior Faculty Travel Awards were presented to Drs. Sonali Jindal and S. Wesley Long. A complete listing of all PISA 2017 travel awards can be found at http://pisa2017.org/awards/. In addition to these travel awards, poster awards were presented to Patrick David Wilkinson (GOLD), Hanumantha Rao Madala (SILVER), Zachary S. Wilson (SILVER), Kelly Ann Koral (BRONZE), and David Li (BRONZE).

At the conclusion of the scientific program on the first day of PISA 2017, a Gateway Clipper Dinner Cruise (https://www.gatewayclipper.com/about-us/) was provided for all meeting attendees. This dinner cruise provided participants with fantastic views of Pittsburgh and surrounding areas as the ship cruised each of Pittsburgh's three rivers (the Ohio River, the Allegheny River, and the Monongahela River). The dinner cruise was an outstanding social event that enabled networking among meeting participants while taking in the sights. A brief ASIP business meeting was held during the dinner cruise (moderated by ASIP President Dr. Dan Remick), and travel awards were presented to trainees and junior faculty. In addition, the Robbins Distinguished Educator Award (http://www.asip.org/awards/robbins.cfm) was presented to Dr. Emanuel Rubin by ASIP Executive Officer Dr. Mark Sobel. Dr. Rubin has received several meritorious awards from the ASIP in the past, including the Warner-Lambert/Parke-Davis Award (now the Outstanding Investigator Award) in 1958, the Rous-Whipple Award in 1982, and the Gold-Headed Cane in 2008. Dr. Sobel's remarks highlighted Dr. Rubin's long and distinguished career as a leader in pathology education.

There is no question that PISA 2017 in Pittsburgh PA was a major success, and those of us that attended are enthusiastically looking forward to future meetings. PISA 2018 will be held in Ann Arbor MI and hosted by Dr. Chuck Parkos (former ASIP President) and the Department of Pathology at the University of Michigan. The Organizing Committee for PISA 2018 is being finalized now and planning for the scientific program has already begun. The PISA 2018 program will include award lectures from recipients of the Rous-Whipple, Outstanding Investigator, Cotran Early Investigator, and Young Scientist Leadership awards. Complete details for the meeting will be forthcoming soon. For now, everyone should look forward to traveling to Ann Arbor next Fall for PISA 2018.
In our last newsletter update, the Journal reported on our switch to the new manuscript submission and processing system, EVISE. In the past months, Journal staff has continually been working with authors, reviewers, and developers to navigate the questions and issues that have been discovered along the way. While the road certainly has been bumpy at times, we have been able to adjust some of our processes to better align with how EVISE is designed, making the submission, review, and production process as streamlined as possible. While EVISE is certainly going to be a work in progress for a good while longer, we have already seen some of our suggestions for improved functionality become implemented for use across the system. We are hopeful that more of our requests for additional features, more comprehensive reporting, and ease of use will continue to be applied in the future.

One of the changes going along with the new submission system was the removal of the $50 processing fee for new submissions. No longer requiring this fee, along with concentrated efforts from the Journal office, the ASIP marketing department, and our marketing team at Elsevier, has yielded a boost in initial submission numbers. Despite the fact that the impact factors did slide a little, total submissions have been on the rise in 2017 for both The American Journal of Pathology (AJP) and The Journal of Molecular Diagnostics (JMD). This year’s AJP submissions from members have nearly doubled compared to 2016. Thank you to our member authors! We hope to see more submissions sourced from the membership as the year continues. JMD, which had already coming off a record setting year in 2016, is also ahead of last year’s numbers.

The Journal office has also been busy working on three theme issues. Scientific Editor Dr. Chhavi Chauhan has been instrumental in working with the Guest Editors to identify, recruit, and assist authors in preparing the series of reviews that will be focusing on Breast Cancer (inspired by the ASIP Presidential Symposium at the ASIP 2016 Annual Meeting at Experimental Biology), Race in Cancer Disparities, and Neural Regeneration/Development. Falling in conjunction with Breast Cancer Awareness month, the Breast Cancer Omics theme issue was published in the October issue of AJP. The other two will appear in early 2018, and some of the reviews are already available online as articles in press.

Also appearing in the October issue of the Journal were the abstracts from the 3rd annual PISA meeting, which took place in September in Pittsburgh. AJP featured the abstracts that were presented during the meeting both in print and online.

Another piece of Journal news is that AJP has selected the next Editor-in-Chief. After an open search this spring/summer, the ASIP Council has approved the appointment of Dr. Martha B. Furie as the next Editor-in-Chief for the Journal. Dr. Furie has a strong history with both AJP and ASIP (see the full announcement in the newsletter) and the Journal staff look forward to working with her in the coming years. In preparation for taking over this role, Dr. Furie has named Dr. William Coleman and Dr. Richard Mitchell as Senior Associate Editors, and together they have revised and updated the scope and tagline for AJP. The new scope, which has been approved by ASIP counsel, will be updated officially on January 1, 2018, as included below:

The American Journal of Pathology, the official journal of the American Society for Investigative Pathology (ASIP) and published by Elsevier, Inc., seeks high-quality original research reports, reviews, and commentaries related to the molecular and cellular basis of disease. The editors will consider basic, translational, and clinical investigations that directly address mechanisms of pathogenesis or provide a foundation for future mechanistic inquiries. Examples of such foundational investigations include data mining, identification of biomarkers, molecular pathology, and discovery research. High priority is given to studies of human disease and relevant experimental models using molecular, cellular, and organismal approaches.

The tagline for the Journal will also update to: Discoveries in Basic and Translational Pathobiology.

It is our hope that these updates will encourage a wider range of good caliber submissions coming across the AJP threshold.

We extend our thanks to ASIP members who are active with the Journal, both as authors and reviewers. The editorial office staff is always on hand to assist if you have any questions about submitting new manuscripts or resubmissions, need assistance with your review, or if you have a proposal for a new Review or Mini-Review. Please feel free to contact us at any time: ajp@asip.org and jmd@asip.org and we will be happy to assist.
AJP Press Releases: April – November 2017

Study Indicates Promising New Approach to Prevent and Treat Cholesterol Gallstones
Activation of constitutive androstane receptors (CARs) reduces biliary cholesterol and prevents stone formation according to a new report in The American Journal of Pathology.
April 2017

Activation of Constitutive Androstane Receptor Prevents Cholesterol Gallstone Formation
Shihai Cheng, Min Zou, Qinhui Liu, Jiangying Kuang, Jing Shen, Shiyou Pu, Lei Chen, Hong Li, Tong Wu, Rui Li, Yanping Li, Wei Jiang, Zhiyoung Zhang, Jinhay He
Vol. 187, Issue 4
Full-Text HTML | PDF

Study Identifies a Genetic Link to Susceptibility and Resistance to Inflammatory Bowel Disease
Overexpression of the Cd14 gene offers protection against IBD in mice, suggesting a new therapeutic approach, according to a report in The American Journal of Pathology.
May 2017

CD14 Plays a Protective Role in Experimental Inflammatory Bowel Disease by Enhancing Intestinal Barrier Function
Stephanie Buchheister, Manuela Buettner, Mariama Basic, Andreas Noack, Gerhard Breves, Barbara Buchen, Lydia M. Keubler, Christoph Becker, André Bleich
Vol. 187, Issue 5
Published online: April 12, 2017
Open Access
Full-Text HTML | PDF

Tamoxifen Protects Against Obesity-Related Metabolic Disorders
New study in mice helps scientists understand how tamoxifen reduces food intake and prevents fat accumulation, insulin resistance, and fatty liver deposits, according to a report in The American Journal of Pathology.
June 2017

Selective Activation of Estrogen Receptor α Activation Function-1 Is Sufficient to Prevent Obesity, Steatosis, and Insulin Resistance in Mouse
Maeva Guillaume, Sandra Handgraaf, Aurélie Fabre, Isabelle Raymond-Letrot, Elodie Riant, Alexandra Montagner, Alexia Vinel, Melissa Buscato, Natalia Smirnova, Coralie Fontaine, Hervé Guillou, Jean-François Arnal, Pierre Gourdey
Vol. 187, Issue 6
Published online: May 11, 2017
Full-Text HTML | PDF

Retina May Be Sensitive Gauge of Blast-Wave Pressure Injury
First study to compare neurological and ocular effects of blast injury may open up paths to new interventions, according to a report in The American Journal of Pathology.
July 2017

Lasting Retinal Injury in a Mouse Model of Blast-Induced Trauma
Najiba Mammadova, Shivani Ghaisas, Gary Zenitsky, Donald S. Sakaguchi, Anumantha G. Kanthasamy, Justin J. Greenlee, M. Heather West Greenlee
Vol. 187, Issue 7
Published online: June 9, 2017
Full-Text HTML | PDF

Chronic Liver Inflammation Linked to Western Diet
Food, antibiotics, and gender are just some of the factors that can throw off the balance between the gut and liver, according to a new report in The American Journal of Pathology.
August 2017

Western Diet–Induced Dysbiosis in Farnesoid X Receptor Knockout Mice Causes Persistent Hepatic Inflammation after Antibiotic Treatment
Vol. 187, Issue 8
Published online: July 12, 2017
Full-Text HTML | PDF

Submissions: https://www.evise.com/profile/#/AJPA/login
New Research Shows Promise for Improving Vascular Access for Hemodialysis Patients
Arteriovenous fistula failure may be linked to poor nitric acid responsiveness, according to a new report in The American Journal of Pathology. August 2017
Smooth Muscle Nitric Oxide Responsiveness and Clinical Maturation of Hemodialysis Arteriovenous Fistulae
Xiaoyong Tong, Xiuyun Hou, Christopher Wason, Tal Kopel, Richard A. Cohen, Laura M. Dember
Vol. 187, Issue 9
Published online: August 16, 2017
Full-Text HTML | PDF

New Research on Probiotics in the Prevention and Treatment of Colon Cancer
Histamine-producing probiotic reduces inflammation and suppresses colon tumors in mice by supplying missing enzyme, according to a report in The American Journal of Pathology. October 2017
Gut Microbe–Mediated Suppression of Inflammation-Associated Colon Carcinogenesis by Luminal Histamine Production
Chunxu Gao, Bhanu Priya Ganesh, Zhongcheng Shi, Rajesh Rasik Shah, Robert Fultz, Angela Venable, Monica Lugo, Kathleen Hoch, Xiaowei Chen, Anthony Haag, Timothy C. Wang, James Versalovic
Vol. 187, Issue 10
Published online: September 13, 2017
Full-Text HTML | PDF

Rapamycin Treatment Prevents Crippling Abnormal Bone Formation after Severe Limb Injuries
Significant benefits seen after treatment with FDA-approved drug in rodent model of blast-related limb injury hold promise for first effective treatment to prevent trauma-induced heterotopic ossification (HO) formation, according to a new report in The American Journal of Pathology. November 2017
Inhibition of Mammalian Target of Rapamycin Signaling with Rapamycin Prevents Trauma-Induced Heterotopic Ossification
Ammar T. Qureshi, Devaveena Dey, Erin M. Sanders, Jonathan G. Seavey, Allison M. Tomasinio, Kaitlyn Moss, Benjamin Wheatley, David Cholok, Shawn Loder, John Li, Benjamin Levi, Thomas A. Davis
Vol. 187, Issue 11
Published online: October 10, 2017
Full-Text HTML | PDF

Submissions: https://www.evise.com/profile/#/AJPA/login
The American Society for Investigative Pathology (ASIP) is pleased to announce the appointment of Martha B. Furie, PhD, as the next Editor-in-Chief for *The American Journal of Pathology (AJP)*. Dr. Furie is a professor of Pathology, and Molecular Genetics and Microbiology, as well as the Director of the Graduate Program in Genetics at Stony Brook University, in Stony Brook NY. Throughout her career, Dr. Furie has focused her research on immune interaction with bacterial pathogens including those that cause Lyme disease and tularemia. Dr. Furie joined the American Society for Investigative Pathology in 1992, and shortly after became an editorial board member for *AJP*. In 2008, she took on the added responsibility of becoming an Associate Editor for the Journal, and in 2013 accepted the position of Senior Associate Editor under outgoing Editor-in-Chief, Dr. Kevin Roth. During this time Dr. Furie also served in many other capacities for ASIP: Program Chair for the annual meeting (2004-2006), Chair of the Education Committee (2006-2009), member of the ASIP Council (2006-2013), and ASIP President (2011-2012). Dr. Furie will be the 14th Editor-in-Chief of *AJP* and the first woman to serve in the position since the Journal's original inception in 1896 (then titled *The Journal of the Boston Society of Medical Sciences*).
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