



JOHNS HOPKINS
MEDICINE

PathWays

NEWS AND INFORMATION FROM JOHNS HOPKINS PATHOLOGY

December 2015

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Risa Mann, M.D.
and
Patricia Charache, M.D.

Push Boundaries, Create Hope, Serve Humanity

Alex Valsamakis shared with me the words written on a poster that hangs on one of the walls here in the Hospital. The poster is simple—only three lines—yet powerful:

***Push boundaries.
Create hope.
Serve humanity.***

As I assume the Baxley Chair and the position of Director of the Department, these words should be a touchstone for thinking about our work in the Department:

Push boundaries. I believe that we have the best research department in the world. Our Department has been number one or number two among pathology departments in NIH funding for the past seven years (see page 16), and this year our faculty have made a number of groundbreaking discoveries—ranging from Phil Wong's discovery of one of the fundamental mechanisms underlying the development of amyotrophic lateral sclerosis, to Kathy Burns' finding that retrotransposon insertions contribute to the clonal evolution of cancer. Our scientists push boundaries.

Create hope. I believe that we have the best clinical department in the world. Patients from around the world seek care here. For many of them, Hopkins is a beacon of hope in desperate times. Our faculty and staff tirelessly provide cutting-edge care that saves lives—whether it is one of our Surgical Pathology faculty significantly changing the diagnosis (and therefore treatment) on a consult, or the transfusion medicine team providing “massive” transfusions to a patient who

otherwise would have bled to death, we create hope. Of course, we also create hope when we push boundaries. This is beautifully demonstrated in a paper published in the *New England Journal of Medicine* this year in which many of our faculty participated (Bob Anders, Jim Eshleman and others). In this paper the team demonstrated that cancers with microsatellite instability are exquisitely sensitive to immune checkpoint inhibitors—a major advance that creates hope where there was none for patients with cancer.



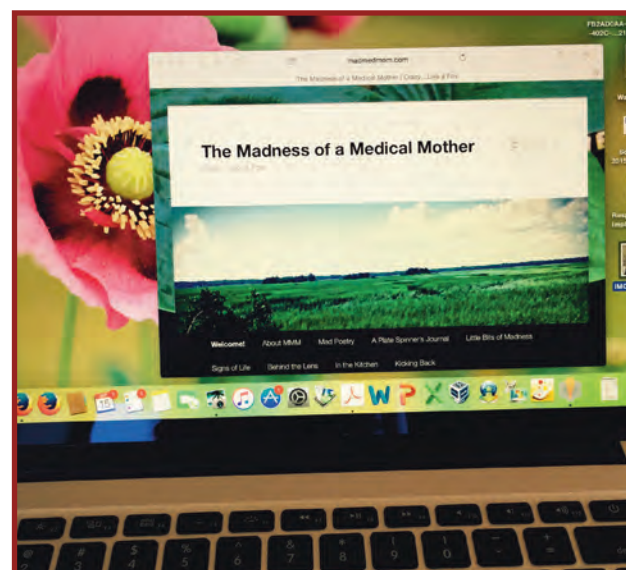
Ralph H. Hruban, M.D.

Serve humanity. Our Department has been and always will be dedicated to helping others. Whether it is the scholarships we provide to allied health students, or the stipends we give to Dunbar High School students in our summer program, our staff and faculty are committed to our community. We also serve in a broader sense through our efforts in research, teaching and patient care. Take teaching as an example—our faculty and staff dedicate countless hours to education. Whether it is through one of the numerous sessions offered at our Annual Pathology Educational Symposium (see page 15), or a didactic talk given to our medical or graduate students, we serve the next generation of leaders through our educational mission.

How will **you** change the field of pathology—and in so doing, push boundaries, create hope and serve humanity?

Life Noted...

Yes...or no: do you think deeply about all the different parts of your life that come rushing at you with varying force and velocity, aiming to maintain your perspective—keep yourself upright, balanced? In the midst of your everyday activities—during your commute, on your solitary walk down your driveway from your mailbox—do you pause for a moment to look at something ordinary but remarkably, breathtakingly beautiful? Do you have passions outside the 9-5 (8:30-4:30? 7-7?), ways for your hands, heart, or mind to help you relax and re-energize? I do. I write about them. Or photograph them. In his reply to a long letter I wrote on the art of parenting girls, a friend wrote, “You have written wonderfully. I can hear your voice clearly...you should consider writing...something...anything...a book, or a blog...” Soon thereafter, life's events provided a good reason to accept this challenge, and my **blog** was born. Come for a visit, and find some of my peace. —Alex Valsamakis



Residency and Fellowship Programs

The Department of Pathology has a long history of successfully training residents and fellows for careers in academic pathology and clinical practice, beginning in 1899. In 2014, the residency program was rated by Doximity as the No. 1 U.S. pathology residency program. The remarkable success of our residency program can be attributed to the high quality of the physicians who have chosen to train here; the volume of clinical opportunities associated with one of the premier academic medical institutions in the U.S.; numerous research opportunities in the Department; the outstanding leadership provided by recent directors including Dr. Risa Mann (17 years) and Dr. Edward McCarthy (14 years); and the commitment of the entire faculty to the training of residents and fellows. Although Johns Hopkins Medicine in general, and the Department of Pathology, in particular, are subspecialty-oriented organizations, the residency and fellowship training programs are one aspect which crosses divisional barriers and provides a unifying mission. Many of the historical aspects of the residency program were recently summarized in a wonderful paper by Dr. Patrizio Caturegli, published in the *Archives of Pathology and Laboratory Medicine* (2015;139:400-406). One aspect of the residency program highlighted in the article is the breadth of our residents, with half of the residents pursuing careers in private practice and about half in academic careers. Of those in academics, 75% rose to the rank of professor of pathology, 19% became chairs of pathology departments, 6% became medical school deans, 3% were elected to the National Academy of Sciences, and one won a Nobel prize.

In the Department of Pathology, the residency and fellowship programs are administered by one office, the Pathology Training Office, which coordinates all aspects of training and administration, including compliance with complex regulations and assessment requirements. Office staff coordinate the interview process for resident applicants, arrange dates of the interviews, arrange for

faculty interviews, answer questions from applicants before, during and after the interview, coordinate visa applications, and compile summaries of faculty comments from the interviews. They also maintain the website that has information about the various tracks available for residents, alumni profiles, living in Baltimore, and resident life. The Office has recently updated the website, added several alumni profiles, and is currently recruiting more alumni to contribute to the alumni profiles. Let us know if you would like to be added! We enthusiastically welcome more alumni profiles, email addresses, locations, and stories about their training experiences and careers after training. Most of all, the staff in the office serve as “family” away from home for our residents.

The Department has 34 resident positions funded by Hopkins and Bayview Hospitals, and occasionally has additional residents funded by one of the military branches or the U.S. Public Health Service. The number of residents each year is determined by the number of graduating residents, plus the number of residents who decide to do a dedicated year of research and are not included in the positions funded by the hospital. The number of incoming residents in each class has ranged from 5 to 14 over the past 20 years. The majority of residents are in the AP/CP track and are trained in both anatomic and clinical pathology, with a small proportion in the AP-only or CP-only tracks. The AP-only track includes 24 months of required rotations in diagnostic anatomic pathology, six months of elective rotations, and up to six months of laboratory research, and it provides ample time for research. The AP track is more flexible than the AP/CP track and is more suited to residents who want to combine diagnostic anatomic pathology with a laboratory-based research career. The Department also has a CP-only track for physician-scientists who want specialized training in a branch of laboratory medicine and time to develop a research career. Our CP-only residents

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The Residency Program Administration

Back Row: Chief Residents, Dr. Rebecca Asche-Kendrick and Dr. Kevin Waters

Front Row: Nancy Nath, Dr. Charles Steenberg and Dr. Karen King

have been extraordinarily successful in academic pathology with a subspecialty clinical practice and success in external grant funding. The final residency track is the AP/NP track, which combines two years of anatomic pathology training with two years of neuropathology training, including surgical neuropathology and autopsy neuropathology, and is also suitable for residents with an interest in forensic pathology with an emphasis on neuropathology.

Research Opportunities

In addition to the training program in anatomic and clinical pathology, residents can design their own unique program to incorporate laboratory research to create a physician-scientist track. The Department has a long history of allowing residents to take a research year during their training, and this year, we are particularly excited that we received a T32 grant from the National Cancer Institute. This will allow residents in AP-only, CP-only, and AP/CP tracks who have chosen to take a research year after their first or second years of diagnostic training to more fully develop their research interests in collaboration with faculty in a variety of departments at the Johns Hopkins School of Medicine. Many have been able to leverage this research experience into a career development grant such as a K award through an NIH institute, which provides salary support during their early faculty years, allowing time to further develop the research portion of their physician-scientist career. The K award mechanism has been used successfully by several of our young faculty who have come through the residency program and are now progressing up the ranks of the faculty. This particular T32 is for cancer-related research, but the Department remains committed to supporting research training in all aspects of pathology. The principal investigators of the T32 award are Kathleen Burns, M.D., Ph.D., associate professor and deputy director for research and Charles Eberhart, M.D., Ph.D., professor and director of neuropathology.

For residents who take a year for dedicated research, the Department has research endowments to support resident research. A full listing of these endowments is available on the Department of Pathology website (http://pathology.jhu.edu/departments/training/res_endow.cfm).

Residency Program Leadership Team

The residency directorship and administrative leadership changed in 2014. After serving for 14 years as residency director, Dr. Edward McCarthy retired as director, but retains an active role in the residency selection process. Dr. Charles Steenbergen assumed the role as residency director and Dr. Karen King replaced Dr. Patrizio Caturegli as associate director. In 2014, the administrative leadership of the housestaff office also changed. Nancy Nath moved from her position as administrative head of the Pathobiology Graduate Program to become the administrative head of the housestaff office upon the retirement of Terry Aman, who held that position for 14 years. With this change, the name of the office also changed to the Pathology Training Office to better reflect the mix of residents, clinical and research fellows, observers, trainees, and rotators served by the office.

Pathology Training Office

The Pathology Training Office is known for its great teamwork, friendliness, strong work ethic, and commitment to the Department's trainees. The team consists of Nancy Nath, Penny Wallace, Johnise Warren, and Kristy Schultz.

Chief Residents

The chief residents are liaisons between the residents and faculty and serve as advisors on faculty committees, playing a critical role in the administration of the residency program. Since the chief residents reside in the Pathology Training Office, the Office team interacts regularly with the chiefs to ensure that all the residents' needs are met and the program runs smoothly. These duties include scheduling lunches for the residents, monitoring attendance at mandatory meetings and courses, scheduling resident meetings with the Residency Program director, Dr. Steenbergen and coordination of interviews.

Residency Selection Process

Residency interviews are a major component of the Pathology Training. From October through January, the Pathology Training Office is extremely busy with residency program interviews for approximately 45-70 potential residents!

Every spring, the Pathology Training Office plans and coordinates two wonderful events—the Awards Presentation and the Department's Annual Banquet, two separate events that celebrate the achievements of our residents, fellows, graduate students, and other trainees.

The current leadership and the past leadership play a major role in the residency selection process. Pathology director

Dr. Hruban also interviews a majority of the applicants. In addition to five core faculty interviewers, applicants have an interview with Nancy Nath, and two other faculty, to give prospective residents a clear picture of the residency program.

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*The Residency Program Administration Staff
Back Row: Johnise Warren and Kristy Schultz
Front Row: Penny Wallace and Nancy Nath*



Mr. Johns Hopkins changed the course of history with one bold stroke of his pen by signing a will that would create The Johns Hopkins University.

What Will Your Legacy Be?

Your support ensures the future of the Department of Pathology. Consider these opportunities to leave a meaningful legacy while taking into account your personal goals.

From Your Will or Trust

Gifts that cost nothing in your lifetime.

Retirement Plan Designation

Avoid the double taxation incurred if designated to heirs.

Life Income Gift

Receive annual income and an immediate tax deduction with a charitable gift annuity or charitable remainder trust.

To learn more about these and other creative ways to support the Department of Pathology, please contact:

Amy Helsel

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rising.jhu.edu/giftplanning



Seek advice from a tax professional before entering into a gift annuity agreement. Johns Hopkins gift annuities are not available in all states.

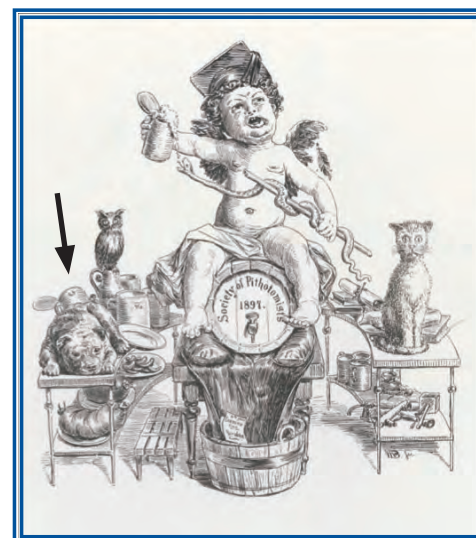
BLAST FROM THE PAST

The drawing is set in Kottler's Restaurant in Berlin. The figure on the keg is Gambrinus, the legendary king of beer. The cap represents scholarship while under the keg is a liquid effluent collector of the type used in the delivery suite, and the instrument tables are also from the delivery suite. The owl, beer mug, staff, and discarded fourth-year examination need no explanation, but what about the dog and the cat?

Special thanks to Marjorie Kehoe of the Chesney Archives.

Our question is, Who's that dog?

Answer on page 19





Brooks Jackson's Portrait Unveiled

The Department's official portrait of Dr. Jay Brooks Jackson was unveiled on Friday morning, June 5, 2015, in the Welch Library for the Johns Hopkins Medical and Surgical Association's 2015 Biennial Meeting and Reunion.

Dr. Jackson's portrait was created by Lisa Egeli, a renowned third-generation artist, whose father Peter Egeli is known for his portraits of distinguished Hopkins faculty.

The portrait of Dr. Jackson is now hung in the Pathology Administration reception area in Carnegie.

Farewell and Best Wishes, Dr. Noel Rose!



Dr. Noel Rose had a wonderful sendoff to the next chapter of his long and illustrious career on October 6, 2015, in the West Reading Room of the Welch Library. Faculty, staff and students from the Johns Hopkins Bloomberg School of Public Health's Molecular Microbiology and Immunology (MMI) department, as well as from the Department of Pathology, wished him well in his move to Boston where he will be teaching part time at Harvard University.



Good Luck, Barbara Crain - Have a Wonderful Retirement!

On September 29, 2015, a reception was held to honor Dr. Barbara Crain who retired as associate professor of pathology, neurology and oncology. Barbara joined the faculty at Johns Hopkins in 1993, and has served as director of the Autopsy Service since 1999. In her retirement, Barbara plans to spend time with her family and pursue her other nonmedical interests.

The Department is extremely grateful to Barbara for her innumerable contributions and leadership over the past 22 years. The various roles within Pathology which she filled so expertly and graciously will be greatly missed by all who worked beside her, learned from her and interacted with her.



New Faculty

Faculty Name	Rank	Division
Andrea Richardson, M.D., Ph.D.	Associate Professor (PAR)	Surgical Pathology - Sibley Memorial Hospital
Evan Bloch, M.D., M.S.	Assistant Professor	Transfusion Medicine
Patricia Simner, Ph.D.	Assistant Professor	Clinical Microbiology
Emanuela Veras, M.D.	Assistant Professor	Surgical Pathology - Sibley Memorial Hospital

Promotions

Faculty Name	Rank	Division
Russell Vang, M.D.	Professor	Gynecologic Pathology
Tian-Li Wang, Ph.D.	Professor	Gynecological Pathology
Barbara Crain, M.D., Ph.D.	Associate Professor Emeritus	Autopsy Pathology
Justin Bishop, M.D.	Associate Professor	Surgical Pathology
Daniela Cihakova, M.D., Ph.D.	Associate Professor	Immunopathology
Stefan Riedel, M.D., Ph.D.	Associate Professor	Clinical Microbiology

Departures

Faculty Name	Rank	Current Location
Hua Shan, M.D., Ph.D.	Professor	Professor of Pathology, Stanford University Medical Center, Stanford, CA
Stefan Riedel, M.D., Ph.D.	Associate Professor	Associate Professor, Harvard Medical School, Boston, MA
Megan Reller, M.D., Ph.D., MPH	Assistant Professor	Assistant Professor, Department of Medicine, Division of Infectious Diseases, JHU School of Medicine, Baltimore, MD

DRONE TRANSPORT OF LABORATORY SAMPLES

For the last few months, I have spent my Saturday mornings in an open field surrounded by woods, 30 miles north of The Johns Hopkins Hospital, with a flight controller in my hands and a stack of bright orange plastic cones to my side. The cones are for marking landing spots for a drone that Jeff Street, the drone engineer, has custom-rigged with lasers to improve landing accuracy. Though hard to conceive, the journey to this place began with an interest in improving access to high quality laboratory diagnoses in poor countries.

In many of the sub-Saharan African countries where I work, a few high-quality laboratories do exist, but reliable access to them is poor. This is where the drones come in. Small drones are cheaper than a motorcycle, and not subject to the tyranny of bad roads. Thus, a month ago I was in Kenya to set up a four-clinic pilot test for drone transportation of laboratory samples. The idea is a hub-and-spoke model where the laboratory at Kitale Hospital in Western Kenya (pictured) is the hub. I would never have guessed I'd be working with drones, but I am grateful for the opportunity. —*Tim Amukele*



Evan Martin Bloch, M.D., M.S., is a recent addition to the Department of Pathology. Dr. Bloch completed medical school at the University of Cape Town and clinical training in South Africa, which spurred his interest in infectious disease. Following completion of a combined residency in anatomic and clinical pathology at Tufts Medical Center in Boston, a post-graduate fellowship in transfusion medicine at University of California San Francisco (UCSF) and its affiliate, Blood Systems Research Institute (BSRI), and a master's in global health at UCSF, Dr. Bloch elected to continue research at BSRI and teach laboratory medicine and global health sciences at UCSF.

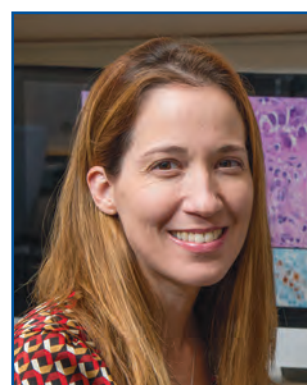
While his interests are diverse, his major research focus is blood safety and transfusion-transmissible infections in resource-constrained settings. Dr. Bloch has been actively involved in research, education, and operational outreach related to blood safety. He is a co-investigator on the NHLBI-funded Recipient Epidemiology and Donor Evaluation Study (REDS-III) in South Africa, and in the United States he has worked on studies of babesiosis (specifically, laboratory diagnostics and cost-effectiveness related to blood donor screening). Given his passion for teaching, research, and evidenced-based clinical practice, Dr. Bloch is excited to join the Department.



Andrea Lynn Richardson, M.D., Ph.D., received her M.D. and Ph.D. degrees from the University of Texas Southwestern Medical and Graduate Schools in Dallas in 1992. She completed her residency training in anatomic pathology with subspecialty training in breast pathology and cytopathology at Brigham and Women's Hospital (BWH) in Boston. From 1993 to 1997, she was on the anatomic pathology staff in the Department of Pathology and Laboratory Medicine at Harvard Vanguard Medical Associates in Boston. In 2000, she returned to the Department of Pathology at BWH and the Department of Cancer Biology of the Dana-Farber Cancer Institute. While there, she maintained an active clinical practice on the BWH breast pathology consultation service and a translational research laboratory, and rose to the rank of associate professor of pathology at Harvard Medical School. Her research interests focus on the molecular pathology of breast cancer and development of predictive biomarkers of treatment response. In 2015, she joined the faculty of the Johns Hopkins University School of Medicine as director of the Pathology Community Practice Division and director of breast pathology, Pathology Community Practice Division. Her clinical practice is based at Sibley Memorial Hospital in Washington, DC. Dr. Richardson will continue her translational breast cancer research with collaborators at the Johns Hopkins Sidney Kimmel Comprehensive Cancer Center.



Patricia (Trish) Simner, Ph.D., was welcomed as an assistant professor of pathology and director of the bacteriology and parasitology sections of the Medical Microbiology Laboratory in March 2015. Dr. Simner received her Ph.D. in medical microbiology and infectious diseases at the University of Manitoba in Winnipeg, Manitoba, Canada. Her thesis was on antimicrobial resistance mechanisms among gram-negative bacteria, specifically extended-spectrum β -lactamases. In 2013, she completed a two-year postdoctoral fellowship in medical microbiology in the Department of Laboratory Medicine and Pathology at the Mayo School of Graduate Medical Education in Rochester, Minnesota, and is certified by the American Board of Medical Microbiology. She comes to Hopkins after working 13 months as a clinical microbiologist at St. Boniface Hospital in Winnipeg, Manitoba, and as an assistant professor at the University of Manitoba in the Department of Infectious Diseases and Medical Microbiology. Dr. Simner will continue her research in the area of gram-negative bacterial resistance mechanisms with a focus on carbapenem-resistant gram-negative bacilli. She is also interested in the evaluation, development and implementation of novel diagnostic tools for the rapid diagnosis of infectious diseases such as next generation sequencing.



Emanuela (Ema) Veras, M.D., received her medical degree from the Universidade Federal do Ceara, Brazil in 1999, followed by an internal medicine residency at the Hospital Universitario Walter Cantideo. She came to the United States to continue her studies and pursue a career in pathology at the University of Texas Medical School in Houston. Dr. Veras further completed a gynecologic pathology fellowship at The Johns Hopkins Hospital, and oncologic and gastrointestinal pathology fellowships at Memorial Sloan Kettering Cancer Center and Cornell University. Dr. Veras started her practice at Duke University Medical Center where she focused in the areas of gynecologic, gastrointestinal and pancreatic pathology. In 2012, she left the academic environment to welcome her first child and fulfill her J-1 visa waiver requirements by joining a community practice in South Carolina. Dr. Veras recently decided to return to the excitement of the academic world. She enjoys teaching and working on clinicopathologic studies. She is highly enthusiastic to be back with the Johns Hopkins community.

In the late summer of 2014, the world and The Johns Hopkins Hospital became acutely aware of the Ebola epidemic in Liberia, Guinea, and Sierra Leone. With international travel it was not long before the first suspected cases arrived in the Johns Hopkins Emergency Department, setting off a chain of events that would test our epidemiologic preparedness for handling such cases.

Realizing a Hospital-wide team approach was needed to care for Ebola patients, a collaboration of multiple disciplines from providers, nursing, HEIC, patient transport, the laboratories, facilities, and waste management planned a long-term solution to provide care and management for confirmed Ebola patients. It was decided a section of Osler 8 would be the new Special

Precautions Isolation Unit. Faculty members Drs. William Clarke, Lori Sokoll, Mark Marzinke, Thomas Kickler, Michael Borowitz, Karen Carroll, and Nikki Parrish, as well as Pathology leaders Allen Valentine, Barbara Parsons, Lydia Nelson, and Amelia Maters, collaborated to create the laboratory portion of the state-of-the-art biocontainment unit. The Osler 8 unit officially opened on May 20, 2015, with a laboratory area which contains two BSL 3 hoods to house the test instruments, surface space to perform lab procedures, multiple point-of-care instruments, two computer work stations, freezer/refrigerator, and a microscope with remote viewing capabilities. The combined laboratories are able to perform an extensive menu of chemistry, hematology, and microbiology tests to support patients with contagions.



Speed Dating for Research

The Department initiated “speed dating” events with the Whiting School of Engineering and the Applied Physics Lab which orchestrated one-on-one conversations between potential scientific partners. Participants had three minutes to talk about their research interests and three minutes to listen, before switching seats to meet someone new. Faculty members met future collaborators, bringing fresh approaches to existing challenges.



With the uncertainties caused by decreased NIH funding and rapidly changing clinical practices, private philanthropy has become critical to our educational and research missions. The smiling faces of the fellowship recipients tell the story. In addition to these fellowships, we have several funds that support trainee and junior faculty research.

The Fred and Janet Sanfilippo Research Fund

The Fred and Janet Sanfilippo Research Fund honors the many contributions of our former Director, **Fred Sanfilippo, M.D., Ph.D.**, to the Department of Pathology, as well as his many contributions to the field of organ transplantation pathology. The fund supports innovative research by our residents and fellows. This year's recipient is **Tatianna Larman, M.D.**

The Grover M. Hutchins, M.D. Memorial Fund

The friends and family of Grover Hutchins have joined together to establish The **Grover M. Hutchins, M.D.** Memorial Fund. Grover spent 56 years at Johns Hopkins and had a profound impact on our residency training program, and greatly advanced the understanding of cardiovascular and pediatric diseases. The most recent recipient was **Jody Hooper, M.D.**

The Joseph Eggleston Fund in Surgical Pathology

The **Joseph Eggleston** Fund in Surgical Pathology honors one of the true giants in the field of surgical pathology. Dr. Eggleston was not only a leading authority on the pathology of lung cancer, but he also educated a generation of outstanding surgical pathologists. This year's grantees are **Marissa White, M.D. and Dongmei Xing, M.D., Ph.D.**

The Mabel Smith Endowment for Resident Research and Education

The Mabel Smith Fund is used to support special courses, research projects, travel, and other needs of our residents. This year's grantee is **Tricia Cottrell, M.D., Ph.D.**

The Gerald S. Spear JHU-UCI Medical Student Pathology Fellowship

This program was established in 2005 to commemorate Dr. Spear's retirement. The Spear Fellowship provides a UC Irvine student with the opportunity to participate in a one-month elective in the Department of Pathology at Johns Hopkins. The goal is to inspire respect for, and possibly a career in pathology.

Please consider supporting one or more of these funds. We are enclosing a self-addressed return envelope to facilitate your contribution. If you have any questions, please contact **Dr. Ralph Hruban** (rhruban@jhmi.edu or 410-955-9791). If you would like to donate to one of these funds on-line, please visit our secure server at: <http://pathology.jhu.edu/departments/giving.cfm>. If you would like to use a separate envelope, please send your tax-deductible contributions payable to Johns Hopkins University to:

Fund Office

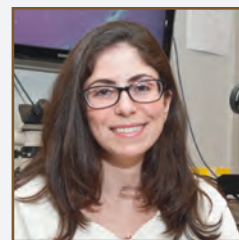
Department of Pathology
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John K. Boitnott Fellow
Maryam Pezouh



Michael J. Borowitz Fellow
Eve Crane



Peter C. Burger Fellow
Abeer Tabbarah



Daniel W. Chan Fellow
Allison Chambliss



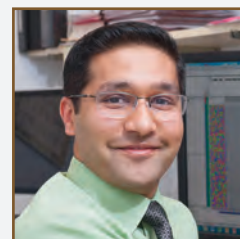
Patricia Charache Fellow
Isabella Martin



Jonathan I. Epstein Fellow
Sara Wobker



Yener S. Erozan Fellow
Jennifer Collins



Constance A. Griffin Fellow
Parvez Lokhandwala



Paul M. Ness Fellow
Peter Miller



Lorraine Parent Racusen Fellow
Rajib Gupta



Dorothy L. Rosenthal Fellow
James Lee



John H. Yardley Fellow
Justin Poling

This year we remember two extraordinary colleagues and friends— **Risa B. Mann, M.D., and Patricia Charache, M.D.**

Risa B. Mann, M.D., was born in Washington, DC, and attended Vassar College before she transferred to Johns Hopkins University to pursue a combined bachelor's and medical degree. Risa completed four years of training in anatomic pathology at Hopkins and served as chief resident in the Department, followed by a fellowship in hematopathology at the National Institutes of Health. Risa returned to Hopkins to join the Pathology faculty where she was an active member of the surgical pathology service for 27 years. She served as director of the Residency Training Program for 17 years, and mentored the Department's residents and fellows as they embarked on their careers in Pathology. Risa was the 44th woman to reach the rank of full professor in the history of the Johns Hopkins School of Medicine. Risa was a part of the Johns Hopkins family for more than 35 years before her retirement in 2004.

Risa's research focused on three areas: the characterization of the relationship of the Epstein-Barr virus and lymphoproliferative disorders; the clinical pathological correlation of hematologic malignancies; and the classification of lymphomas for the National Cancer Institute. A nationally recognized hematopathologist, she served on panels and boards of many professional organizations during her career and received numerous honors such as the Faculty Teaching Award in Pathology.



Risa Mann



Patricia Charache

Patricia Charache, M.D., was born in Maplewood, New Jersey, and attended Oberlin College. She subsequently attended and graduated from Hunter College. In 1957, she was awarded her medical degree from the New York University School of Medicine. Pat completed an internship in internal medicine at the Baltimore City Hospitals (now Johns Hopkins Bayview Medical Center), and completed several research and clinical fellowships at the University of Pennsylvania and at the Johns Hopkins School of Medicine, Division of Allergy and Infectious Diseases. Following additional research training in the Department of Pediatrics at the Harvard University School of Medicine, Children's Hospital in Boston, Massachusetts, where she worked on the immunology of rheumatic fever, Pat returned to Johns Hopkins Medicine in 1964 where she practiced for over 50 years. From her initial appointment as an instructor in the Johns Hopkins School of Medicine in the Division of Infectious Diseases, followed by her appointment as assistant chief of medicine at Baltimore City Hospitals with an academic appointment at the University of Maryland School of Medicine, Pat then served as the medical director of the Microbiology Laboratory, at that time part of the Department of Medicine. When the Microbiology Division evolved and became part of the Department of Pathology, she served as the director of the Division of Microbiology and its various laboratories for 20 years. Pat was the 30th woman professor in the history of the Johns Hopkins School of Medicine. After stepping down as Microbiology director in 1993, Pat held the positions of deputy director of clinical affairs, physician advisor,

and director of quality improvement for the Department of Pathology, as well as director of the Park Medical Laboratories, served an 18-month tenure as the director of the Department of Pathology of Zayed Military Hospital and its associated hospitals in Abu Dhabi, UAE. She also held a joint appointment in the Department of Molecular Microbiology and Immunology at the Johns Hopkins Bloomberg School of Public Health for many years. From 1998 until her official retirement in 2010, Pat served as program director of Quality Assessment and Outcomes Research Programs. She continued to work after her retirement on a part-time basis. Pat's early research interests involved the detection of genetic abnormalities using immunologic approaches, and later focused on the development of new approaches to detect microbial pathogens, including AIDS and tuberculosis. Her innovations included the development of a novel 19-test, agar-based, computer-assisted method of bacterial identification and susceptibility testing which revolutionized testing and was used in the clinical laboratory for 30 years.



Jason Denney, M.D., was raised on a horse farm in Rogersville, Missouri. He earned a B.A. in biology and fine arts (painting emphasis) from Drury University in Springfield, Missouri, and earned his M.D. from the University of Missouri. Between his second and third year of medical school, he completed a post-sophomore fellowship in pathology. This cemented his desire to be a pathologist. Jason conducted a research project that evaluated DNA methylation in juvenile myelomonocytic leukemia and served as president of the Pathology Student Interest Group. He was awarded the W.B. (Pete) Stewart Memorial Scholarship for excellence in pathology in his fourth year. His partner is an attorney and lobbyist for the Women's Foundation of Greater Kansas City. Jason enjoys listening to music, painting, art history, antiques, ethnic foods, riding and showing horses, and spending time with his family and Persian cat Oscar. Jason is pursuing AP/CP training.



Alisha Gordy, M.D., was raised in Voorhees, New Jersey. She earned her B.S. in biology from Howard University in Washington, DC. Alisha then attended the University of Virginia School of Medicine where she served as recording secretary for the Student National Medical Association during her second year, as well as vice president of the Pathology Interest Group during her fourth year. While at UVA, Alisha conducted a study that characterized the HIV-positive population of central and western Virginia served by UVA's Ryan White Clinic. Alisha loves running and has completed two half marathons and one full marathon. She also enjoys reading, cooking, traveling, and spending time with family and friends. Alisha is pursuing AP/CP training.



Michael Haffner, M.D., Ph.D., is from Hall in Tirol, Austria. He received his M.D. from Innsbruck Medical University, where his research focused on biomarkers in breast cancer and squamous cell carcinoma. He stayed in Innsbruck to earn his Ph.D. in molecular oncology and studied the interplay between cytokines and glucocorticoid receptor signaling. Michael moved to Baltimore to continue his postdoctoral research training at the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins. During his fellowship, he studied mechanisms involved in the generation of recurrent genomic rearrangements and investigated the genomic heterogeneity in prostate cancer. He enjoys contemporary art, skiing, and running. Michael is pursuing AP-only training with a specific interest in GU pathology.



Danielle Hutchings, M.D., was raised in Grand Rapids, Michigan. She completed her undergraduate studies at the University of Michigan and majored in cellular and molecular biology. She also spent a year at the Van Andel Institute in Grand Rapids where she researched JAK-STAT signaling in non-small cell lung cancer cell lines. Danielle earned her M.D. from Jefferson Medical College in Philadelphia and was awarded the Harold L. Stewart M.D. '26 Prize in Pathology. While at Jefferson, she completed the Clinical Translational Research Program and worked on neuroscience research and studied the differentiation of dopaminergic neurons from stem cells, GI pathology, and the expression of phospho-S6 in hepatocellular carcinoma. Danielle loves playing soccer, mountain biking, yoga, watching TV series, and spending time with her fiancé Zack and dog Blondie. Danielle is pursuing AP/CP training.



Robert Jones, M.D., grew up in Valparaiso, Indiana, and after high school graduation spent a year in Matamoros, Mexico where he worked at a home for children with incarcerated parents. Robby grew interested in medicine during that time after he witnessed the benefits of short-term medical mission trips to the area, but also the more problematic aspects of discontinuous access to care. Robby studied biology at Truman State University and then attended medical school at the University of Missouri. Throughout those four years of medical school, Robby also lived and worked at St. Francis House, a homeless shelter that focuses on particularly vulnerable populations—LGBTQ individuals, undocumented immigrants, and those who struggle with mental illness. He wrote a perspective piece on his experience at St. Francis titled "Caring for William" that was published last year in the *New England Journal of Medicine*. In his fourth year, Robby received the Arnold P. Gold Humanism in Medicine Scholarship and was voted by his classmates to give the commencement address at graduation. In his free time he enjoys hoppy beer, trashy TV, and Googling pictures of dogs in sweaters. Robby is pursuing AP/CP training.



Christopher Paul Morris, M.D., Ph.D., is from the small town of Red Bluff in northern California. He was initially a foreign language major and studied Chinese, French, Russian, and Spanish. After getting married in 2002, he worked in the mortgage industry for several years before he returned to school to major in biology at California State University, Chico, where he performed research that used waste products from a local brewery in the production of biodegradable plastic. He earned his M.D. and Ph.D. from the Uniformed Services University of the Health Sciences. His research focused on protective mechanisms of vaccines against filariasis and the protein makeup of different anatomic fractions of the filarial worm *Brugia malayi*. His wife Cheryl and he have four children—Caleb (11), Audrey (10), Brennan (7), and Brielle (6). Needless to say, he has plenty of free time for his hobbies of kayaking, amateur knife-making, and working on his house. He is pursuing AP/CP training.



Lais Osmani, M.D., is Afghan but was born in Peshawar, Pakistan. He grew up in the Boston area and received his B.A. in biology with highest honors from Boston University. After college, he worked as a research fellow on the COMBEX (Computational Bridges to Experiments) project which aims to accelerate the biochemical or functional annotation of microbial genomes through the collaboration of experimental and computational biologists. He attended medical school at the University of Illinois in Chicago, where he received his M.D. with honors. During medical school, he conducted research on the correlation between the expression of the tumor suppressor protein maspin and the phenomenon of vasculogenic mimicry in uveal melanoma. During this time, he also served as treasurer and later vice president of the Pathology Student Interest Group and was awarded the Mentor's Program Award and the Otto Saphir Memorial Scholarship in Pathology. Lais met his wife Katie at Boston University. They both enjoy cooking, trying new restaurants, going to the movies, exploring new areas, and spending time with family and friends. Lais is pursuing AP/CP training.



Kevan Salimian, M.D., Ph.D., was born and raised in Salisbury, Maryland. In 2003, he attended the University of Maryland, College Park as a Banneker/Key scholar and received his undergraduate degree in biochemistry and cell biology and molecular genetics. During college, he spent four years in a bioorganic chemistry laboratory synthesizing functional ion channels for which he received HHMI and Pfizer fellowships. In 2007, he attended the University of Pennsylvania where he pursued an M.D./Ph.D. His Ph.D. work, funded by an American Heart Association fellowship, focused on two proteins—CENP-A and Aurora B—which play a critical role in regulating cell division in eukaryotes. Kevan enjoys traveling around the United States, trying new crazy foods, and watching and playing sports of all kinds. He is a huge Ravens and Orioles fan. His significant other, Katy, is a kindergarten teacher for the Baltimore City public schools. Kevan is pursuing AP/CP training.



Maryam Shabihkhani, M.D., was born in Kashan, Iran. She received her M.D. from Tehran University of Medical Sciences. After graduation, she moved to the United States and began working in a neuropathology laboratory at UCLA. Her main area of research involved the evaluation of different biomarkers and their potential prognostic role in glioblastoma. Maryam enjoys biking, calligraphy, and trying new food. Maryam is pursuing AP/NP training.



Have you moved or are in the process of moving?

If so, please email **Kimberly Gill** at kgill@jhmi.edu, and let her know your new address. We don't want you to miss an issue of PathWays. We respect your privacy by never sharing your name with other organizations. If you prefer not to receive mail from us, please send us a note or email telling us so and we will promptly remove you from our mailing list.



Lionel Chia is from the little sunny island of Singapore. He graduated from the National University of Singapore in 2011 with a degree in life sciences. He embarked on his M.Sc. in medical microbiology at the London School of Hygiene and Tropical Medicine, after which he did research at the Molecular Engineering Laboratory at the Agency of Science, Technology and Research in Singapore. His research experience is diverse. He studied the mechanisms of pluripotency in mouse embryonic stem cells during his undergraduate days. Outside of the lab, Lionel likes jamming a few chords on his guitar, running and chilling with friends. Lionel is one of our Margaret Lee students.



Nivedita Chowdhury is originally from Mumbai, India. Nivi came to the United States in 2012 to pursue a master's in biotechnology from Johns Hopkins University. During this time, she worked primarily on breast cancer and studied epigenetic regulation, especially reversal of methylation of breast cancer genes, and the development of biomarkers of progression as well as recurrence in DCIS (ductal carcinoma *in situ*) and triple-negative breast cancers, respectively. As Nivi progresses to the next chapter of her academic career, she hopes to broaden her knowledge and expertise in translational research and more. Growing up in a military family, she moved frequently and thus enjoys traveling and exploring new places. Nivi also loves chocolate, long walks, poetry, reading and writing, and spending time playing with shelter dogs.



Yea Ji Jeong was born in Suwon, South Korea. She received her D.V.M. from Konkuk University in Seoul in 2014. During her veterinary education, she was primarily clinically oriented, but her research experiences at summer school at the University of Cambridge led her to science. While her main academic interests lie in cancer genetics and application of comparative histopathology, she is excited to expand her horizons to other areas at Johns Hopkins. Yea Ji loves biking, wakeboarding, and experimenting with new recipes on her newlywed husband. Yea Ji is one of our Margaret Lee students.



Swathi Karthikeyan was born in Chennai, India where she received a B.Tech. in biotechnology from Anna University in 2012. She graduated with a master's from Johns Hopkins University in 2014. She worked on multiple projects with a primary focus on targeting cellular energy metabolism in diseases such as liver fibrosis and breast cancer. As part of her master's thesis, she worked on the anti-fibrotic effects of deregulation of energy metabolism in the liver. Swathi is interested in working along the rapidly growing bridge between basic science and its clinical application, and believes that the highly translational aspect of the Pathobiology Program will provide her with ample opportunities to do this and contribute to human healthcare. She is a trained singer, major foodie, and enjoys baking and swimming as much as she enjoys traveling.



Audrey Knight is from St. Louis, Missouri. In 2014, she received her B.S. in biology from Illinois College in Jacksonville, Illinois. While at IC, Audrey participated in several undergraduate research projects, including RNA interference in *C. elegans*, identified infected wild orchids from Hawaii, streamlined the synthesis of muscone, and identified mycorrhizal fungi isolated from the roots of Malagasy orchids. Her undergraduate courses in virology and immunology sparked an interest in the medical field, and she worked as an inpatient phlebotomist at Memorial Medical Center in Springfield, Illinois after college. Audrey is very excited to return to research and is particularly interested in HIV and emerging viral diseases. In her free time, Audrey enjoys playing volleyball, painting, studying French, and cheering on the St. Louis Cardinals!



Janelle M. Montagne is originally from Liverpool, New York. Janelle attended Lafayette College and earned her B.S. in biochemistry. Upon graduation, she moved to Baltimore and joined the Division of Rheumatology at Johns Hopkins where she studied basic immunology in the context of systemic autoimmune disease. During this time Janelle also earned her M.S. in biotechnology with a concentration in bioinformatics from the Johns Hopkins University. In her free time Janelle enjoys baking, gardening, yoga, classic literature, and spending time with her friends and family, especially her nieces and nephews.



Wei-Kai Huang comes from Taipei, Taiwan and completed his M.S. in biochemistry and molecular biology at National Taiwan University in 2009. During his graduate study, Wei-Kai developed a novel kind of cationic lipid-modified nanoparticle which can be utilized for drug delivery and stem cell imaging. He worked as a research assistant in Academia Sinica, the highest research institution in Taiwan. He currently studies the functional roles of PODXL, a CD34 family protein, in both human embryonic stem cells and mesenchymal stem cells. In his leisure time, Wei-Kai enjoys table tennis. He was a leader of a table tennis team in his undergraduate years that won fourth place in a nationwide contest in Taiwan.



Eva Shrestha was born in Kathmandu, Nepal, and completed her B.A. in biology from Bard College in upstate New York in 2014. While at Bard, Eva researched on subjects ranging from developmental biology in zebrafish to behavioral studies on oviposition of *Aedes aegypti* (the vector for yellow fever and dengue). She is interested in understanding infectious disease and using translational research to discover novel methods to combat them. She is particularly interested in host pathogen and host environment interactions which can be manipulated to develop efficient preventive and curative therapies. She believes that this will help her develop into a creative researcher who can help bring science literacy and the concept of research to her home in Nepal. Eva enjoys cooking, reading, playing tennis, and singing.

EDUCATION

The Third Annual Pathology Educational Symposium



The Third Annual Pathology Educational Symposium was held November 2-4, 2015, on The Johns Hopkins Hospital campus. Organized by the Department of Pathology's Continuing Education Committee, the Symposium offered 35 PACE-accredited sessions on various technical and nontechnical topics as well as 2 credits for poster sessions—new this year.

Presenters included faculty, fellows, residents, staff, and speakers from other departments and industry. Thank you to the Symposium Committee members and co-chairs Lorraine Blagg and Barbara Parsons for their hard work in putting this event together for the entire department.



NEW GRANTS AND CONTRACTS AWARDED TO PATHOLOGY FACULTY - 8/23/14 - 10/06/15

Faculty Member	Award Type	Agency	Dates	Total Funding
Albert, Marilyn	Grant	NIH/NIA	4/1/15 - 3/31/20	9,603,172
Amukele, Timothy	Contract	Hologic Inc	12/30/14 - 12/31/15	77,716
Barin, Jobert	Grant	Autoimmune Related Diseases Assn.	1/1/15 - 12/31/15	10,000
Barin, Jobert	Grant	Gilead Sciences	1/5/15 - 1/4/17	130,000
Borowitz, Michael	Grant	Foundation for NIH	4/8/15 - 4/7/18	47,452
Burns, Kathleen	Grant	Technology Development Corporation	6/30/15 - 6/29/17	200,000
Carroll, Karen	Contract	Abbott Molecular	2/23/15 - 4/5/15	63,383
Carroll, Karen	Contract	Curetis AG	6/19/15 - 3/31/16	92,125
Carroll, Karen	Contract	Abbott Laboratories	7/28/15 - 7/27/16	93,698
Chan, Daniel	Contract	Shimadzu Scientific Instruments	3/27/15 - 3/26/16	329,960
Chen, Liam	Grant	McKnight Foundation	2/1/15 - 1/31/18	300,000
Clarke, William	Contract	Instrumentation Laboratory	8/1/14 - 7/31/15	27,235
Clarke, William	Contract	Instrumentation Laboratory	4/8/15 - 4/7/16	69,425
Clarke, William	Contract	Nova Biomedical	8/3/15 - 2/2/17	85,020
Clarke, William	Contract	ARK Diagnostics	2/1/15 - 1/31/18	21,456
DeMarzo, Angelo	Grant	Prostate Cancer Foundation	12/24/14 - 12/24/17	120,000
DeMarzo, Angelo	Grant	Prostate Cancer Foundation	10/6/14 - 10/6/17	112,500
DeMarzo, Angelo	Grant	Department of Defense	9/30/15 - 9/29/18	303,750
Detrick, Barbara	Contract	Siemens Healthcare Diagnostics	7/28/15 - 7/27/16	58,151
Eberhart, Charles	Grant	Children's Cancer Foundation	11/1/14 - 10/31/15	50,000
Eberhart, Charles	T32 Grant	NIH/NCI	9/1/15 - 8/31/20	1,142,021
Epstein, J./Ali, S.	Contract	Genentech	5/11/15 - 5/10/17	293,400
Eshleman, James	Grant	The Stringer Foundation	7/1/15 - 6/30/16	150,000
Hamad, Abdel	R01 Grant	NIH/NIAID	3/1/15 - 2/29/20	1,834,630
Heaphy, Christopher	Grant	State of Maryland	7/1/14 - 6/30/15	20,000
Heaphy, Christopher	Contract	NIH	8/1/15 - 3/1/16	21,852
Hruban, Ralph	Grant	Marcus Foundation	10/15/14 - 12/31/16	272,152
Hruban, Ralph	Contract	DIAN Diagnostics Ltd.	1/1/15 - 12/31/15	113,825
Hung, Chien-Fu	Contract	TheVax Genetics Vaccine Co.	10/1/14 - 9/30/17	292,400
Hung, Chien-Fu	Contract	Hookipa Biotech	10/1/14 - 9/30/15	103,200
Hung, Chien-Fu	R21 Grant	NIH/NCI	7/15/15 - 6/30/17	387,585
Koliatsos, Vassilis	Grant	Technology Development Corporation	6/30/15 - 6/29/18	655,500
Larman, Ben	U24 Grant	NIH/NIAID	6/22/15 - 5/31/20	1,956,005
Le Thi, Quy Hoa	Grant	Technology Development Corporation	3/3/15 - 12/2/15	100,000
Lotan, Tamara	Contract	Ventana Medical Systems Inc	3/13/15 - 9/13/15	4,300
Martin, Lee	Contract	Congenia S.r.l.	9/1/14 - 8/31/15	55,000
Meeker, Alan	Contract	NIH/NCI	9/19/14 - 9/18/15	44,998
Nie, Xuguang	Grant	National Kidney Foundation	7/1/14 - 6/30/15	10,000
Parrish, Nicole	Contract	BD Diagnostics	10/1/14 - 9/30/16	209,961
Parrish, Nicole	Contract	Association of Public Health Labs Inc	3/1/15 - 5/31/15	12,500
Parrish, Nicole	Contract	doTerra International LLC	4/1/15 - 3/31/16	110,992
Parrish, Nicole	Contract	Covaris Inc.	4/1/15 - 9/30/15	38,876
Riedel, Stefan	Contract	JMI Laboratories	6/1/14 - 8/31/14	3,200
Riedel, Stefan	Contract	JMI Laboratories	8/1/14 - 10/31/14	1,200
Riedel, Stefan	Contract	JMI Laboratories	12/1/14 - 2/28/15	1,600
Riedel, Stefan	Contract	JMI Laboratories	9/1/15 - 9/30/15	1,500
Roberts, Nick	K99 Grant	NIH/NCI	8/1/15 - 7/31/17	172,322
Roden, Richard	Grant	Technology Development Corporation	7/28/15 - 4/27/16	100,000
Roden, Richard	Contract	PI Therapeutics LTD.	9/6/15 - 9/5/16	68,000
Sadegh-Nasseri, Scheherazade	Grant	American Association of Immunologists	9/1/15 - 8/31/16	22,920
Schneck, Jonathan	R21 Grant	NIH/NCI	4/1/15 - 3/31/17	387,585
Sfanos, Karen	Grant	Department of Defense	9/30/14 - 9/29/16	124,199
Sfanos, Karen	Grant	Department of Defense	9/30/14 - 9/29/17	1,121,850
Sfanos, Karen	Grant	V Foundation for Cancer Research	9/1/14 - 8/31/16	200,000
Shan, Hua	Grant	Abbott Laboratories	7/1/15 - 6/30/16	58,424
Simner, Patricia	Contract	BD Diagnostics	7/11/15 - 7/10/16	104,149
Sokoll, Lori	Contract	EDP Biotech Corporation	2/25/15 - 8/25/15	3,900
Sokoll, Lori	Contract	Abbott Laboratories	7/14/15 - 7/13/16	69,995
Suryo Rahmanto, Yohan	Grant	HERA Foundation	4/1/15 - 3/31/16	20,000
Troncoso, Juan	Grant	BrightFocus Foundation	7/1/15 - 6/30/18	250,000
Valsamakis, Alexandra	Contract	Roche Molecular Systems	7/17/14 - 12/31/15	26,771
Valsamakis, Alexandra	Contract	Roche Molecular Systems	10/20/14 - 12/31/15	87,532
Valsamakis, Alexandra	Contract	Nanosphere Inc	10/9/14 - 7/17/15	105,290
Valsamakis, Alexandra	Contract	Roche Molecular Systems	6/4/15 - 12/31/15	34,429
VandenBussche, Chris	Contract	Rosetta Genomics Inc.	5/28/15 - 11/27/15	19,922
Wood, Laura	Grant	Sidney Kimmel Foundation	7/1/15 - 6/30/17	200,000
Wu, TC	P50 Grant	NIH/NCI	9/1/14 - 8/31/19	11,236,869
Wu, TC	P20 Grant	NIH/NCI	9/20/14 - 8/31/18	701,802
Wu, TC	R21 Grant	NIH/NCI	12/1/14 - 11/30/16	387,585
Zhang, Hui	Contract	MedImmune	5/1/15 - 12/31/15	100,000
Zhang, Hui	Contract	MedImmune	8/1/15 - 12/31/15	60,000

Total 35,295,284

We invite three applicants per day during the recruitment period. The chief residents organize a dinner for the applicants the night before the interviews to introduce them to Baltimore and to give them the opportunity to meet our current residents. When the applicants arrive the next day at the Pathology Training Office, they already have had a warm welcome and are more comfortable than if they had arrived without any personal interaction before hand. The Pathology Training Office also organizes a lunch for the applicants with another group of residents, followed by a tour of the Hospital and pathology laboratories with the chiefs. We are proud of our residency training program and want our applicants to appreciate that Hopkins is a friendly and supportive place to do their residency training.

Fellowships and Other Trainees

The Pathology Training Office not only supports the residency program, but also supports seven fellowship programs: molecular genetic pathology, renal pathology, blood banking/transfusion medicine, cytopathology, hematopathology, medical microbiology, and neuropathology, which are ACGME-accredited, and two ACGME-equivalent fellowship programs (genitourinary pathology and gastrointestinal pathology), along with a clinical chemistry fellowship for MDs and PhDs. The Office also provides administrative support for research fellows (doing basic and translational research, generally supported by NIH or foundation grants), trainees (graduate level students working in a lab), rotators, and observers. For the research fellows, this involves visa applications and supporting educational and academic documents. The Office also helps to coordinate

medical student rotators and other visitors who wish to attend subspecialty AP signouts. Every year, approximately 60 visiting trainees come to improve their diagnostic skills or study with our renowned faculty. The Office takes care of 34 residents, 17 clinical fellows, approximately 100 research fellows, two trainees (graduate level students working in a lab), eight resident rotators, and nine observers at any one time of the year. Our capable staff credentials all of these different types of applicants and coordinates the paperwork with the Registrar's Office, the International Office, and the Medical Staff Office. Some of the administrative rules have changed recently for visa requirements and licensure, e.g., visiting rotators who come from non-ACGME programs are required to have Maryland medical licenses to participate in anatomic diagnostic services, and visa applications now require proof of financial support for accompanying family members.

In Summary

The residency and fellowship programs, through the assistance of the Pathology Training Office, continue the leadership legacy established in the Department of Pathology by our first director, Dr. William Henry Welch, when the first pathology residents were selected in 1899. One of those residents became the second director of our department, and the other became chairman of pathology at Washington University in Saint Louis. This tradition continues and our current Director Ralph H. Hruban, M.D., is also a graduate of our residency program. We anticipate many more of our residents will become chairs and achieve other great accomplishments during their careers.

WELCOME COMMUNITY DIVISION PATHOLOGISTS AND CLINICAL ASSOCIATES

The Department of Pathology is delighted to welcome two new tenure track faculty, **Andrea Richardson, M.D., Ph.D.** and **Ema Veras, M.D.** (see page 8), and three clinical associates (see below) who will provide services at Sibley Memorial Hospital, located in Washington, DC, as well as a new clinical associate joining Suburban Hospital, located in Bethesda, Maryland. We look forward to further integration and partnership with our Community Division.

Christine Berkley, M.D., completed her medical degree at the University of Minnesota in 1985, followed by residency in pathology at Hennepin County Medical Center in Minneapolis, and George Washington University Hospital in Washington, DC. She is board certified in AP/CP, and has been a staff pathologist at Sibley Memorial Hospital since 1990.

Thomas Fleury, M.D., received his medical degree from Georgetown University in 1976, followed by residency at Peter Bent Brigham Hospital in Boston. While there he served as chief resident, and returned to Washington, DC in 1980 to become a staff pathologist at Sibley Memorial Hospital. Since 1992, he has served as laboratory director and chief of Pathology at Sibley.

Margaret Shaffer, M.D., M.S., obtained her medical degree from George Washington University in 1989. She also completed her residency, served as chief resident, and completed a surgical pathology/cytopathology fellowship all at George Washington University. Margaret has been a staff pathologist at Sibley Memorial Hospital since 1994.

Norris Nolan, M.D., received his medical degree from the University of Texas Medical Branch at Galveston. He completed his residency in AP/CP at the University of Virginia in Charlottesville, followed by a surgical pathology fellowship at the University of North Carolina at Chapel Hill. In 2011, he joined the Medical Faculty Associates at George Washington University Hospital where he practiced general surgical pathology and served as the associate residency program director. He joined the Department of Pathology, Community Division in September 2015 as a clinical associate at Suburban Hospital.



Syed Ali, M.D., was the recipient of the Excellence in Education Award from the American Society of Cytopathology. This prestigious award for outstanding teaching was presented in November 2015 at the 63rd Annual Scientific Meeting in Chicago.



Daniel W. Chan, Ph.D., DABCC, FACB, received the 2015 Award for Outstanding Contributions to Clinical Chemistry in a Selected Area of Research from the American Association for Clinical Chemistry and the National Academy of Clinical Biochemistry. This award recognizes especially meritorious research contributions by an individual in a specific area of clinical chemistry.



Karen Carroll, M.D., was awarded the prestigious 2015 Edward H. Kass Award for Clinical Excellence from the Infectious Diseases Society of America for her contributions to rapid diagnostics of infectious diseases. In association with the award, Karen delivered the Edward Kass Lecture at the Society's annual meeting in October 2015.



James Eshleman, Jr., M.D., Ph.D., received the 2015 Pathobiology Graduate Program Teaching Award in the Department of Pathology of the Johns Hopkins University School of Medicine.



Mary Glenn Fowler, M.D., M.P.H., was awarded the Constance B. Wofsy Women's Health Investigator Award in June 2015 at the AIDS Clinical Trials Group Annual Meeting for contributions to HIV research related to women in the United States and internationally. Much of Mary Glenn's work relates to interventions to prevent HIV transmission from mothers to their infants, risk factors for disease progression, as well as clinical trials to address the safety of specific antiretrovirals during pregnancy.



Paul Ness, M.D., received the Petteway-Shepherd Award from the North Carolina Association of Blood Bankers at their 2015 Fall Meeting. This award recognizes an individual who has made significant contributions to the field of transfusion medicine, and whose prominence is well established nationally. Paul also received the Leo J. McCarthy Lectureship Award in Transfusion Medicine from Indiana University School of Medicine in October 2014. This annual award was established to enhance the educational experience of students, residents, fellows, and faculty, and to improve the care of children who require transfusions.



Noel Rose, M.D., Ph.D., M.A., was elected to the Polish Academy of Sciences in 2015. The Academy is a state scientific institution founded in 1952 as an elected corporation of top scholars and researchers. The foreign candidates who are elected by the Academy's national membership are recognized as authorities in their fields and have the highest scientific achievements.

Our PDS Web Team members—**RJ Malacas**, **Rod Julius**, and **Aidel Weisberg**—have been making great strides to improve our web presence. Before moving ahead to update our site, they have taken a step back to take stock and reorganize our site to ensure a stable web environment to build on. The team has been shutting down inactive sites and updating content site-wide. They are in the process of migrating our databases from Microsoft Access to a new version of MySQL and Microsoft SQL Server. The main web server recently moved to a new virtual machine server for improved maintenance and security. And to ensure long-term success, they established policies to keep our web environment uniform and organized going forward.



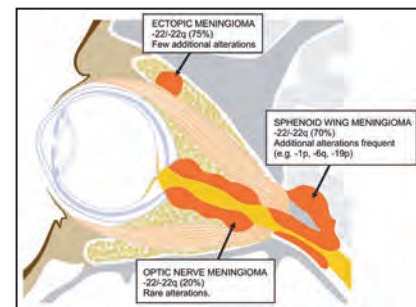
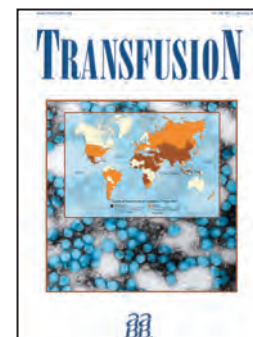
But that's all in the background . . . what's been going on from the users' point of view? The team has added numerous lab and program sites, including a new Rapid Autopsy site, the Koliatsos Lab site, and an Advanced Clinical Chemistry Diagnostics Lab site. We launched a new Surgical Pathology Interesting Case Conference site and updated our Residency Training pages. You may have noticed the addition of our Pathology header and footer to many of our division and lab sites for a uniform site look and orientation. The team also improved the web request submission process to ensure that it's easy to contact them and that every request gets answered in a timely fashion. Since May, they've responded to over 250 requests through the new process!

The web team would like to extend a special thank you to the behind-the-scenes web server administrators, Alan O'Neill and Darlene Follin, for their technical support and never-ending agreeability.

The team welcomes feedback on its recent web efforts, as well as suggestions of ideas that you'd like to see on the website. Contact the web team at aweisbe1@jhmi.edu.

Graphic Arts Display

Stop by to see the latest Pathology Photography Art Gallery walls located outside their main office. The subject is a sampling of what our graphic/digital imaging specialists do. The show features graphic designer **Sharon Blackburn's** magnificent work.



BLAST FROM THE PAST



In the 1880s and 1890s, dogs were used as mascots in American universities. Perhaps the most famous one is "Handsome Dan" who became a popular mascot for the Yale football team. He was known to associate exclusively with students and bark ferociously when the name "Harvard" was spoken to him.

But the dog in the first graduating class of the Johns Hopkins School of Medicine was not a mascot.

So the question is, **Who's that dog?**

His owner was none other than Dr. William Welch.

CALENDAR OF EVENTS

March 12-18, 2016

United States and Canadian Academy
of Pathology
105th Annual Meeting
Washington State Convention Center
Seattle, Washington

March 13, 2016, 5:30 – 7:30 p.m.

United States and Canadian Academy
of Pathology
Fellowship Fair
Washington State Convention Center
Seattle, Washington

March 14, 2016, 5:30 – 7:30 p.m.

United States and Canadian Academy
of Pathology
Johns Hopkins Pathology
Alumni Reception
Sheraton Seattle Hotel and Towers
Seattle, Washington

March 30, 2016, Noon – 4:00 p.m.

Pathology Young Investigators' Day
Turner Concourse
Johns Hopkins University School of Medicine
Baltimore, Maryland

April 25, 2016

Pathology Awards Presentation
Zayed Auditorium and Arcade Room
The Johns Hopkins Hospital
Baltimore, Maryland

May 6, 2016

Pathology Awards Dinner
Baltimore Marriott Waterfront Hotel
Baltimore, Maryland

2015 PATHOLOGY YOUNG INVESTIGATORS' DAY AWARDEES

Congratulations to the Top Award Recipients

Basic: Jonathan Ling, B.S.

Clinical: Lisa Rooper, M.D.

Translational: Harpreet Kaur, Ph.D.

For Excellence in Basic Research

Jonathan Ling, B.S.
Wei-Wen Teo, B.S.
Lindsay Horvath, Ph.D.
Chih-Ping Mao, B.S.
Martin Samuel Taylor
Nicola Diny, M.S.
Aneesh Donde, B.S.
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The Department of Pathology again enjoyed an excellent turnout at the 2015 Young Investigators' Day.

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