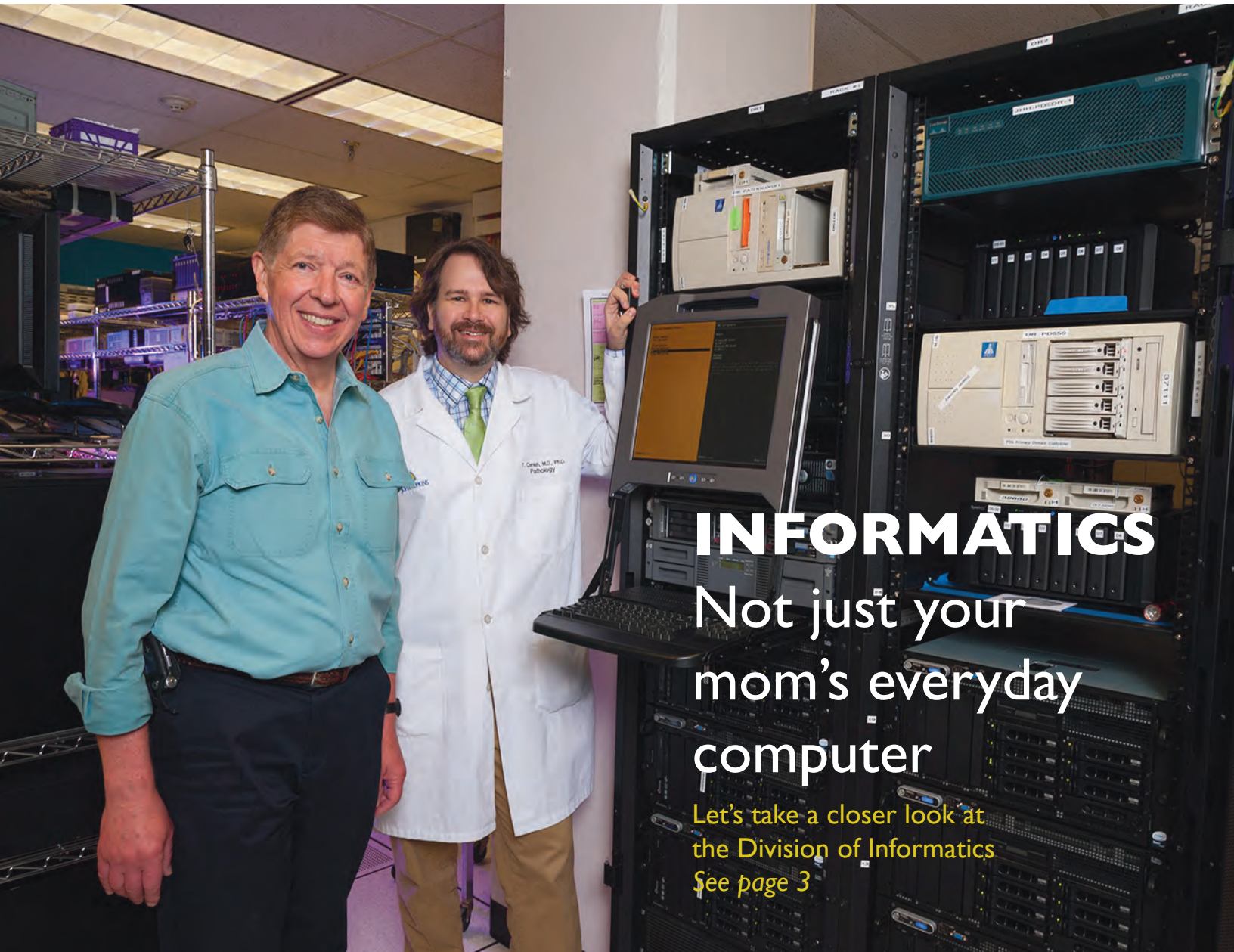


# PathWays

## A Closer Look at the Division of Informatics



**INFORMATICS**  
Not just your  
mom's everyday  
computer

Let's take a closer look at  
the Division of Informatics  
See page 3

Inside



**5**

The Ride to  
Conquer  
Cancer



**6**

Brooks Jackson  
Moves to  
Minnesota



**15**

The 2nd  
Annual  
Pathology  
Educational  
Symposium



**17**

Welcome  
Suburban  
Hospital  
Pathologists

**This has been a wonderfully exciting year for the Department!**

Dr. Jackson reports that he has settled into his new position at the University of Minnesota, and I am doing my best in my new role as Interim Director. Three things have struck me as I transitioned to the interim position. First, I have come to an even greater appreciation of the hard work and dedication of our faculty, senior administrators and staff. I have had the wonderful opportunity to tour many of the clinical labs and have seen that efficiency, dedication and grace under pressure are palpable in all of the labs. Second, I am buoyed by the inspiring positive attitude that emanates from just about every corner of the Department. Third, I am deeply grateful to our faculty, senior administrators and staff for their willingness to step up and support me. Importantly, with everyone's support we have been able to hire a number of new faculty members with enormous potential (see page 8). I have always loved the Department, and now as Interim I love it even more!

We were very pleased to learn that our pathology residency training program was ranked the best pathology training program in the country by U.S. News & World Report/Doximity. U.S. News & World Report together with Doximity conducted a comprehensive national assessment of residency programs, based on 50,000 peer nominations from board-certified U.S. physicians ([https://www.doximity.com/residency\\_navigator/programs#residency\\_specialty\\_id=53](https://www.doximity.com/residency_navigator/programs#residency_specialty_id=53)). Hopkins Pathology ranked number one. This honor reflects both the devotion of our faculty to teaching and the enthusiasm our residents have for learning. Our deepest appreciation and sincerest thanks go to Ed McCarthy, Mario Caturegli, Charles Steenberg, Karen King, all of our faculty and staff who participate in residency training, and especially our residents. For those interested in learning more about our residency program, Mario Caturegli M.D., Ph.D., published a remarkable article in the Archives of Pathology and Laboratory

Medicine. Believe it or not, Mario was able to identify all of the residents who participated in our training program from July 1899 to June 2013!

Another exciting educational event this year was the Second Annual Pathology Educational Symposium (page 15). Over 600 of our employees from Broadway, Bayview, Howard County, and Suburban campuses attended this four-day symposium, and some sessions were even broadcast to All Children's in Florida. Our deepest appreciation goes out to Barbara Parsons and Lorraine Blagg for organizing such an incredibly successful symposium, and many thanks go to everyone who lectured or worked tirelessly behind the scenes.



**Ralph H. Hruban, M.D.**

On the research side, the Department again ranked #1 among pathology departments in NIH funding ([http://www.brimr.org/NIH\\_Awards/NIH\\_Awards.htm](http://www.brimr.org/NIH_Awards/NIH_Awards.htm)) with over \$43 million in NIH funding last year (see page 16). On the patient care side, Drs. Frank and Ness, together with Al Valentine and Rosemary Hines, championed a program to decrease blood utilization in the Hospital, and they successfully reduced blood use in several areas.

Finally, the integration of our partners at Suburban and Sibley into the Department continues to go well. On October 1, 2014, the pathologists at Suburban joined the Department (page 17), and we are initiating discussions with the team at Sibley to do the same.

We can look forward to a bright and exciting future for the Department!

## Unusual Obsession

**Dr. Ie-Ming Shih** has had an enduring interest in black-and-white street and urban photography since his college years. Ie-Ming created a Web site to share his photographic views on how a snapshot of a given time and space creates a miniature new reality—an abstract, enigmatic and sometimes surreal moment. The discovery of something extraordinary from ordinary life always excites him as a photographer. There are about 120 photographs in his three-series exhibition: Reflection and Reality; Before I Die ...; and Inner Harbor. His future plan is to use the profits from the sale of his photography to support clinical trials of novel drugs for ovarian cancer patients. See his photography on his e-gallery at [www.shih-photography.com](http://www.shih-photography.com).



*On the Cover - Brian Dickson, Toby Cornish, M.D., Ph.D.*



### Pathology Informatics

Informatics is everywhere—big data, analytics, genetic and genomic testing, laboratory information systems, electronic health records, digital pathology in research and education, cutting-edge mobile apps, and much more. Pathology Informatics in the Department of Pathology at Johns Hopkins spans and embraces this broad discipline with a rich past, an active present, and an exciting future.

The Pathology Informatics Division at Johns Hopkins includes a small number of core faculty who devote much of their time to informatics activities, as well as many other pathology faculty for whom informatics plays an important role in service, research, and educational activities. Additionally, numerous technical staff in the Division provide critical support to the Department's laboratory information systems (LIS) and the Department's growing desktop and server needs. Our photography and graphics arts professionals provide a wide range of services to the Institutions through our award-winning Pathology Photography, Digital Imaging & Computer Graphics Laboratory.

### History of Pathology Informatics at Johns Hopkins

Although Pathology Informatics at Johns Hopkins took its current name in the 1990s under the leadership of Dr. Joel Saltz, the genesis of the discipline dates back many decades—perhaps as far back as the expansion in NIH research funding in the 1950s. The growth in NIH-funded clinical research soon resulted in the development of many *in vitro* diagnostic tests with clinical utility. This, in turn, spawned the rapid growth of clinical laboratory

testing and the subspecialty of laboratory medicine, or as it is commonly known now, clinical pathology. With the advent of automated multichannel chemistry instruments and high-speed blood cell counters in the 1960s, the clinical laboratories began producing unprecedented amounts of test data. The quantity of data soon became unmanageable, and created a pressing need for computerization.

Hospital clinical laboratories—along with the business office—were the first hospital areas to make use of computers, and the Clinical Chemistry Laboratory at Johns Hopkins was amongst the first laboratory computer innovators. In the mid-1960s the Clinical Chemistry Laboratory connected a high-throughput multichannel automated chemistry instrument to an IBM industrial data-acquisition and process-control computer system. This allowed the laboratory to capture patient test data from the instrument and to automatically perform calculations on the test results. Reports were then printed and delivered to nursing units and outpatient clinics. Shortly thereafter, the availability of “inexpensive” minicomputers, powerful operating system software, and high-level programming languages, gave rise to a fledgling U.S. industry of LIS vendors. These advances also allowed the newly organized Department of Laboratory Medicine at The Johns Hopkins Hospital to develop a comprehensive and sophisticated LIS that served anatomic pathology, clinical pathology, and transfusion medicine at Johns Hopkins for many decades. Recent integration of laboratory services across the five regional Johns Hopkins Medicine hospitals has necessitated the deployment of large vendor-supported LIS and blood bank



*The Division of Informatics*

CONTINUED ON PAGE 4

systems to manage inter-institutional specimen referrals and facilitate standardization of laboratory procedures and analytic instrumentation. Over the years, LIS innovations at Johns Hopkins provided models for LIS architectures elsewhere, and for computer-to-computer (HL7) messaging of laboratory test orders and test results between the LIS and electronic health record (EHR) systems.

Any discussion of pathology informatics at Johns Hopkins must also mention the Autopsy Service. The service, which dates to the founding of the Hospital in 1889, was also an early medical informatics innovator—at a time when systems had only limited computing power, especially for handling large amounts of textual data. In the 1960s, Dr. Sam Paplanus and others processed punch cards on the Hospital's mainframe computer to create a key-word-in-context (KWIC) index that provided alphabetized listings of autopsy diagnoses. Dr. Ella Oppenheimer and others updated and maintained this index for many years until it was superseded by computer-based autopsy records and an online autopsy diagnosis index. In the 1980s, Drs. Grover Hutchins and William Moore obtained funding from the National Library of Medicine to digitize the Anatomic Diagnoses (face sheets) for the first 40,000 autopsies at Johns Hopkins, which constitute a valuable historical and scientific resource. Dr. William Moore posthumously received the Lifetime Achievement Award from the Association of Pathology Informatics, in part for his work in this area.

### Service

The Informatics Division's service activities include the operation of laboratory information systems (LIS) that support anatomic and clinical pathology and the transfusion medicine services for Johns Hopkins Medicine. Additionally, the Division provides data retrieval and analytic services for researchers and others, and faculty oversee the Pathology Photography, Digital Imaging & Computer Graphics Laboratory, which operates as a Service Center under NIH/OMB rules for researchers and others. The Division also runs a Departmental computer facility with federal (FISMA) information-security certification and more than 120 servers supporting clinical, educational and research functions, and provides desktop and server support for the Department's 1,400-plus faculty, staff, and trainees. More than 50 Web sites supporting the Department's clinical, educational and research mission are managed by the Division.

The Division's LIS activities have expanded to include support for the clinical laboratories, blood bank, and anatomic pathology for all five regional Johns Hopkins Medicine hospitals: The Johns Hopkins Hospital, Johns Hopkins Bayview Medical Center, Howard County General Hospital, Suburban Hospital in Bethesda, Maryland, and Sibley Memorial Hospital in the District of Columbia. The new Soft LIS team, under managers Mike Huppenthal and Greg Rex, are in the midst of an aggressive Soft system deployment project across all five hospitals. When complete in 2016, the Soft LIS will be used by more than 700 laboratory and pathology employees, process more than 50,000

test requests, and generate more than 250,000 test results each day. At the same time, manager Martine Uveges is overseeing the team deploying the new SafeTrace Tx blood bank computer system that will support integrated blood services for all regional JHM hospitals and outpatient treatment areas.

### Research

Faculty research support includes NIH grants and contracts, and the Division's faculty are involved in multiple basic, translational, and other research projects.

Photographer and faculty member **Norman Barker's** interests are in the research and educational use of digital images. He continues to publish award-winning books and create exhibits of scientific and medical photography, and Norm was recently elected a fellow of The Royal Photographic Society.

**Dr. John Boitnott's** research and clinical interests are focused primarily on liver disease. He has also been the tireless cheerleader and curator for the Johns Hopkins Anatomic Pathology database, which is a key Departmental and Institutional resource for managing patients, educating trainees and health care professionals, and for gaining new understanding of the natural history and the effects of treatment of cancer and other diseases. This database, which is an integral part of our anatomic pathology computer system, dates back more than three decades, and contains data on over one million patients, along with the reports of approximately two million high-value surgical pathology and cytopathology cases and specimens. Included are patients and specimens from The Johns Hopkins Hospital and other Johns Hopkins Medicine entities, and from literally thousands of other institutions nationwide and around the world. This extensive database contains approximately 12,000 recent complete autopsy records, and the Anatomic Diagnoses (face sheets) for the more than 55,000 autopsies performed at The Johns Hopkins Hospital since it opened in 1889. The Anatomic Pathology database supports powerful natural language queries and has been used as a data resource for more than a thousand scientific papers.

**Dr. Toby Cornish's** research interests include digital pathology, mobile applications and image analysis. He has made significant contributions to TMAJ—an open source software package for managing tissue microarrays for research. He has also developed or co-developed several software tools for visualization and analysis of whole slide images, including PIP, a tool that has been used to characterize immune microenvironments in cancer.

**Dr. Shenghan Lai** has multiple NIH grants supporting the studies of coronary artery disease and cocaine use in HIV-infected individuals, and the study of altered creatine kinase energy metabolism in human heart failure.

**Dr. Robert Miller's** research interests are in the area of laboratory quality and proficiency, with NIH contract support for monitoring international clinical laboratories that perform patient safety testing for HIV/AIDS research studies (<http://pSMILE.org>).



### Education

The Division offers elective rotations and research mentoring opportunities for residents, fellows, students and others, and participates in Institution-wide informatics teaching activities and continuing medical education courses. Images of the gross and microscopic appearances of disease have always been a cornerstone of pathology teaching, and a variety of informatics tools allows rich collections of images to be readily examined by trainees and others. A powerful “virtual microscope” is used by Hopkins medical students to study images from a variety of diseases that have been prepared by the faculty and staff. Another tool, Slidebox, is a Web-based whole slide image viewer and database developed by the Division and is used to host the Department’s surgical pathology case conferences (<http://pathology2.jhu.edu/sp/>).

Perhaps best known, however, are the Division’s educational applications (apps) for mobile devices. The first of these, The Johns Hopkins Atlas of Pancreatic Pathology has been downloaded more than 20,000 times in more than 80 countries, and received the Vesalius Trust Frank H. Netter Award for Special

Contributions to Medical Education in 2013. The team that created the Atlas also received the 2014 Educational Innovation Award from the Johns Hopkins School of Medicine’s Institute of Educational Excellence. This team, which includes Drs. Cornish and Hruban, as well as faculty member Norman Barker and others, has since created additional apps, including the The Johns Hopkins Atlas of Pancreatic Cytopathology, The Johns Hopkins iCareBook for Pancreatic Cancer, a resource for patients and families, and The Johns Hopkins Pathology Flashcards app.

### Future

Pathology informatics is arguably one of the most mature informatics subdisciplines, and remains at the forefront of the medical information revolution. With recent advances in next-generation sequencing, proteomics, digital imaging, integrated data sets, and comprehensive electronic record systems, the Informatics Division will continue to grow and will play an even more important role in the future in the Department and the Institutions, and in the advancement of the discipline.



## THE RIDE TO CONQUER CANCER

On September 13-14, 2014, over 1,000 bicyclists, including “Team Pathology,” participated in The Ride to Conquer Cancer for the Baltimore/Washington, D.C. area. The event raised \$2,600,000 for cancer research and treatments at the Johns Hopkins Sidney Kimmel Cancer Center, Suburban Hospital, and Sibley Memorial Hospital. “Team Pathology” had six members, administrator Al Valentine, his son Nathan, pathology employees Mike Vick, Suzy Nicol, Carol Bailey, and colleague Todd DeMario of Sysmex. Everyone on the team had lost a loved one to cancer, and the ride was a special way to honor their memory while raising money to help future cancer treatment.

“Team Pathology” raised over \$18,000 in donations from their coworkers, family, and friends. The team would like to again thank everyone who generously supported them.



*“Team Pathology” – Carol Bailey, Al Valentine, Suzy Nicol, and Nathan Valentine  
Not pictured – Mike Vick and Todd DeMario*

## Brooks Jackson Moves to Minnesota

In February 2014, Dr. Brooks Jackson began a new chapter in his distinguished career by becoming the new Dean of the Medical School and Vice President for Health Sciences at the University of Minnesota. The University of Minnesota trains over 70% of Minnesota's doctors and health care professionals, and in his new role Brooks oversees the Schools of Medicine, Public Health, Pharmacy, Dentistry, Veterinary Medicine and Nursing.

Brooks served as the eighth Baxley Professor and Director of the Department of Pathology at the Johns Hopkins School of Medicine for 12 years. During this time, our Department rose to first in NIH funding nationwide, with nearly \$50 million in annual awards. The Department also became one of the most diverse at Johns Hopkins, in terms of gender and underrepresented minorities. Brooks leaves the Department well positioned for the future.



## Good Luck, Lorraine Racusen - Have a Happy Retirement !

On June 30, 2014, a reception was held to honor Dr. Lorraine Racusen who retired as Emerita Professor of Pathology. Lorraine arrived at the Johns Hopkins University School of Medicine as a resident and fellow in Anatomic Pathology, trained as a fellow in Renal Pathology, and subsequently joined the faculty in 1984. She has been Professor of Pathology in the Division of Renal Pathology since 2001. In her retirement, Lorraine plans to travel with her husband to visit her two sons, as well as continue to give invited talks at medical conferences and teach our residents and students. The Department is extremely grateful to Lorraine for her innumerable contributions and leadership over these many years.





## New Faculty

Faculty Name	Rank	Division
Wang, Tian-Li	Associate Professor	Gynecologic Pathology
Baras, Alexander	Assistant Professor	Howard County/Urologic Pathology
Hooper, Jody	Assistant Professor	Autopsy Pathology
Rodriguez, Erika	Assistant Professor	Cytopathology
VandenBussche, Christopher	Assistant Professor	Cytopathology
Voltaggio, Lysandra	Assistant Professor	Gastrointestinal/Liver Pathology
Larman, H. Benjamin	Instructor	Immunology Pathology
Barrow, Willis	Assistant	Surgical Pathology
Huebner, Thomas	Assistant	Gastrointestinal/Liver Pathology
Lastra, Ricardo	Assistant	Gynecologic Pathology
McFalls, Jeanne	Assistant	Surgical Pathology
Mentrikoski, Mark	Assistant	Gynecologic Pathology
Paluru, Swetha	Assistant	Surgical Pathology
Poling, Justin	Assistant	Surgical Pathology
Schoolmeester, John	Assistant	Gynecologic Pathology
Xing, Deyin	Assistant	Gynecologic Pathology
Nauen, David	Research Associate	Neuropathology

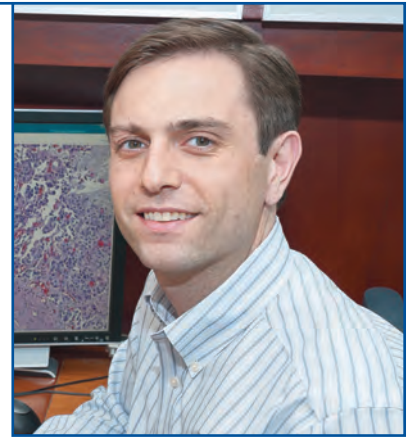
## Promotions

Faculty Name	Rank	Division
Erozan, Yener	Professor Emeritus	Cytopathology
Racusen, Lorraine	Professor Emeritus	Renal Pathology
Rosenthal, Dorothy	Professor Emeritus	Cytopathology
Barker, Norman	Professor	Informatics
Sadegh-Nasseri, Scheherazade	Professor	Immunology Pathology
Sokoll, Lori	Professor	Clinical Chemistry
Burns, Kathleen	Associate Professor	Hematopathology
Hamad, Abdel-Rahim	Associate Professor	Immunology Pathology
Li, Qing Kay	Associate Professor	Surgical Pathology
Lotan, Tamara	Associate Professor	Kidney-Urologic Pathology
Meeker, Alan	Associate Professor	Kidney-Urologic Pathology
Rodriguez, Fausto	Associate Professor	Neuropathology
Heaphy, Christopher	Assistant Professor	Kidney-Urologic Pathology
Marzinke, Mark	Assistant Professor	Clinical Chemistry

## Departures

Faculty Name	Rank	Division
Jackson, J. Brooks	Professor	Dean, Medical School and Vice President for Health Sciences, University of Minnesota, Minneapolis, MN
Burton, Elizabeth	Associate Professor	Pediatric Pathology Fellowship
DeScipio, Cheryl	Assistant Professor	
Goicochea, Lindsey	Assistant	Cytopathology Fellowship, The University of Maryland, Baltimore, MD
Tilson, Matthew	Assistant	Dermatopathology and Oral Pathology Fellowship, The Johns Hopkins Hospital, Baltimore, MD
Wang, Mark	Assistant	Assistant Professor, Southern Illinois University School of Medicine, and Pathologist at Memorial Medical Center, Springfield, IL
Bai, Haibo	Research Associate	Assistant Professor, Texas A&M University, Health Science Center, Temple, TX
Elbireer, Ali	Research Associate	Research Associate, Infectious Disease, JHU School of Medicine, Baltimore, MD

**Alexander Baras, M.D., Ph.D.**, completed his undergraduate degree in biology at Georgetown University and then completed medical school and doctorate in experimental pathology at the University of Virginia. Alex completed his residency in anatomic pathology here at Johns Hopkins, with research aimed at identifying biomarkers of response to platinum-based neoadjuvant chemotherapy in muscle invasive bladder cancer. He combined bioinformatics and conventional histopathology and was awarded the Stowell-Orbinson Award by the United States & Canadian Academy of Pathology. Alex's clinical work will be at Howard County General Hospital. He also has significant expertise in the analysis and interpretation of next generation sequencing (NGS) data and will work closely with the Division of Molecular Pathology to develop a comprehensive analytic and informatics framework for NGS data derived from human specimens. Additionally, Alex will continue to work closely with the Division of Genitourinary Pathology, along with the Urology Department towards high impact translational research.



**Jody E. Hooper, M.D.**, received her undergraduate degree as an Echols scholar at the University of Virginia and her M.D. from George Washington University. She then served as a medical officer in the U.S. Navy for five years in San Diego, including a surgical internship and two years as the Medical Department Head onboard the USS Comstock, an amphibious warfare ship, and two years as a general medical officer at the Naval Air Station North Island. After finishing her military service, she completed her anatomic and clinical pathology residency at Cedars-Sinai Medical Center in Los Angeles, followed by a surgical pathology fellowship at Oregon Health & Science University (OHSU) in Portland, Oregon. She remained at OHSU, as an instructor and then assistant professor over the next six years. Throughout her career her greatest interest has been in autopsy, and she became the associate director of autopsy at OHSU in 2011. At OHSU she created a rapid research autopsy program for collection of postmortem tumor tissue in collaboration with multiple researchers, and as a result, published several articles about the program, as well as autopsy practice in general. Jody was recruited to Johns Hopkins as an assistant professor and deputy director of Autopsy. Her principal research interest is the use of postmortem tissue in the investigation of cancer development, particularly for gastrointestinal carcinomas, including histologic and molecular analysis and cell culture.



**H. Benjamin Larman, Ph.D.**, grew up in Portland, Maine, before journeying to the University of California, Berkeley, where he earned his B.S. in engineering physics and bioengineering in 2002. He returned to the East Coast to pursue a Ph.D. in Harvard-MIT's Division of Health Sciences and Technology. From 2006-2008, Ben left graduate school to head a DNA microarray manufacturing startup company in Lodi, Italy. He returned to complete his thesis with Dr. Steve Elledge, developing new applications for next-generation DNA sequencing (NGS), including "Phage ImmunoPrecipitation sequencing" (PhIP-seq) and "Parallel Analysis of Translated ORFs" (PLATO). Ben returned to California in 2012 as a fellow in Dr. Peter Schultz's laboratory at The Scripps Research Institute, where he worked on high-throughput methods, including "RNA Annealing, Selection and Ligation sequencing" (RASL-seq), to study immune cell function. Ben joined the Department of Pathology in July of 2014 within the Division of Immunology. Ben's laboratory will continue to develop and deploy NGS-based technologies to study the human immune system.





**Erika Rodriguez, M.D., Ph.D.**, was born in Brazil where she received her M.D. from the Universidade Federal de Sergipe in her home state. She completed residency training in pathology and her Ph.D. at the Hospital das Clinicas da Universidade de Sao Paulo, one of the largest and busiest hospitals in Latin America. Her Ph.D. thesis focused on morphometric analysis in the study of interstitial lung disease. After finishing her training in Brazil, she moved to Rochester, Minnesota where she started her residency training in anatomic and clinical pathology at the Mayo Clinic, and subsequently transferred to The Johns Hopkins Hospital. After residency, Erika pursued additional specialty training in cytopathology at the University of Pittsburgh Medical Center, and surgical pathology training at the Hospital of the University of Pennsylvania. Erika recently joined the Department of Pathology at Johns Hopkins with an academic interest in the application of novel diagnostic techniques in cytologic specimens and small surgical biopsies. In her spare time, Erika enjoys spending time with her family, traveling, and reading.



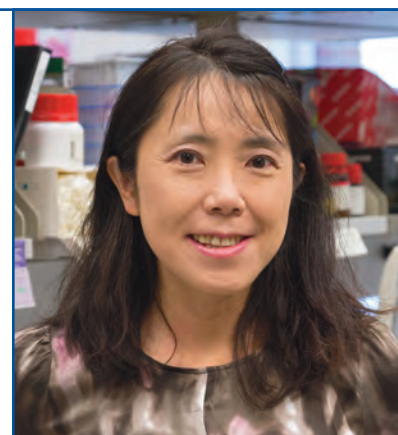
**Christopher VandenBussche, M.D., Ph.D.**, joined the Department of Pathology, Division of Cytopathology as an assistant professor in July 2014, after completing his residency in anatomic and clinical pathology and a clinical fellowship in cytopathology here at The Johns Hopkins Hospital. Chris grew up in Traverse City, Michigan, and attended the College of William and Mary in Virginia, where he graduated summa cum laude with a B.S. in chemistry. He completed a dual M.D./Ph.D. degree at Georgetown University School of Medicine. As a resident and fellow at Johns Hopkins, his work on a standardized system for reporting urinary cytopathology specimens has formed the basis for the internationally-recognized Paris System for Reporting Urinary Cytology. His research interests include bladder cancer, cervical cancer, and the development of molecular assays for early cancer detection. Presently, Chris serves as the moderator in charge of the International Academy of Cytology webinar (e-conferences) series.



**Lysandra Voltaggio, M.D.**, was born and raised in Trujillo Alto, Puerto Rico. She received her undergraduate degree in biology from the University of Puerto Rico and her M.D. from the University of Puerto Rico School of Medicine. She completed her residency in anatomic and clinical pathology at Thomas Jefferson University Hospital in Philadelphia, Pennsylvania. She relocated to Washington, D.C. to complete fellowships in cytopathology and surgical pathology at the George Washington University Hospital. She developed an interest in gastrointestinal pathology after performing elective rotations at The Johns Hopkins Hospital. Lysandra joined the Medical Faculty Associates at the George Washington University in 2009, where she practiced general surgical pathology with a focus on gastrointestinal pathology. Lysandra was recruited in 2014 to Johns Hopkins as an assistant professor in the Division of Gastrointestinal/Liver Pathology. Her research interests include the pathogenesis and histologic manifestations of inflammatory processes of the gastrointestinal tract, with special interest in the histologic appearance of sexually transmitted infections of the colorectum.



**Tian-Li Wang, Ph.D.**, joined the Department of Pathology, Division of Gynecologic Pathology, as an associate professor in January 2014, transferring from the Departments of Gynecology & Obstetrics and Oncology. Tian-Li earned her undergraduate degree in zoology from the National Taiwan University in 1989, and her Ph.D. at the Johns Hopkins University School of Medicine in 1995. Tian-Li's long-term research goal is to analyze the molecular pathogenesis and translational aspects of female reproductive cancers, with special focus on tumor recurrence, tumor evolution, and the development of preventive strategies and therapeutic interventions. She discovered several novel cancer genes and pathways including NOTCH3, SYK, ARID1A, and PBX1 and demonstrated that NOTCH3, PBX1, and SYK may participate in developing chemoresistance. She is developing and applying small molecule inhibitors to determine the therapeutic potential of targeting these pathways. Dr. Wang has also applied genetically engineered mouse models to test commonly prescribed drugs for their efficacy in chemoprevention of ovarian cancer.



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 **Scott Robertson, M.D., Ph.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, as well as advancing the understanding of cardiovascular and pediatric diseases.

### 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 **Thomas Gniadek, M.D., Ph.D.**, and **Rebecca Asch-Kendrick, M.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.

### 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 grantees are **Genevieve Crane, M.D., Ph.D.**, and **Kevin Waters, M.D.**

Please consider supporting one or more of these activities. 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 410-955-2163). 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  
The Johns Hopkins Hospital  
Carnegie 424, 600 North Wolfe Street  
Baltimore, MD 21287-6417



John K. Boitnott Fellow  
Meredith Pittman



Michael J. Borowitz Fellow  
Madburima Koka



Peter C. Burger Fellow  
Abeer Tabbarah



Daniel W. Chan Fellow  
Christopher Crutchfield



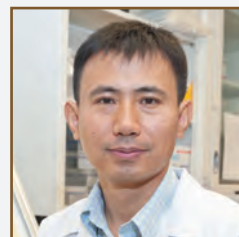
Patricia Charache Fellow  
La'Tonzia Adams



Jonathan I. Epstein Fellow  
Francesca Khani



Yener S. Erozan Fellow  
Jennifer Hipp



Constance A. Griffin Fellow  
Gang Zheng



Robert H. Heptinstall Fellow  
Xuguang Nie



Paul M. Ness Fellow  
Andrea McGonigle



Lorraine Parent Racusen Fellow  
Avi Rosenberg



Dorothy L. Rosenthal Fellow  
Natalie Banet



John H. Yardley Fellow  
Scott Robertson





Guess Who?

Answer on page 19

PHILANTHROPY

## Fund the Future of Pathology

### *Make a gift to the Department of Pathology*

Ensure a promising future for pathology students, faculty, and research with a bequest to the Department of Pathology. Make a bequest now without impacting cash flow, lifestyle or family security.

Bequests are easy to arrange by naming us as a beneficiary in your will, life insurance policy or traditional retirement plan. They can be made from a variety of assets—such as cash, publicly traded securities, real estate or personal property—and are easy to revoke if situations change.

When you make a bequest, you will become a member of the Johns Hopkins Legacy Society—and your gift will make an impact on the Department of Pathology for generations to come.

**If you have already named the Department of Pathology in your will or estate plans, please let us know. We want to make sure your wishes are met, and welcome you to the Johns Hopkins Legacy Society. To learn more about bequests and the advantages of other planned gifts, contact:**

**Amy Helsel**  
**Senior Director of Development**  
**Department of Pathology**  
**443-287-7943**  
**ahelsel@jhmi.edu**  
**rising.jhu.edu/giftplanning**





**Derek Allison, M.D.**, was born and raised in Knoxville, Tennessee. He received his B.S. in biochemistry from Lipscomb University in Nashville and his M.D. from Georgetown University School of Medicine in Washington, D.C. At Georgetown, he was elected into Alpha Omega Alpha and graduated magna cum laude. He also completed the Medical Education Research Scholar Track and studied the prevalence and impact of moral distress experienced by students during clinical rotations. He served as president of the Pathology Student Interest Group for two years and raised money to donate a teaching microscope to the HOYA Clinic, a student-run free clinic. His wife is an attorney for Mitre Corporation who works on the legal side of health care policy. Derek enjoys listening to all kinds of music, playing guitar, running, staying engaged with politics, eating good food, and spending time with friends and family. Derek is pursuing AP/CP training.



**Margaret Cocks, M.D., Ph.D.**, was born in Toronto, Canada. She studied the history of medicine at Yale where she developed a keen interest in all things botanical. She was awarded a Commonwealth Scholarship and completed her Ph.D. in the history and philosophy of science at Cambridge University. Her thesis explored the work of Dr. Auzoux, a French physician who created papier-mâché models of human and plant anatomy for teaching. After four years in idyllic English country, she returned home to study medicine at the University of Toronto. In medical school, she was the editor-in-chief of the University of Toronto Medical Journal and production manager of the Toronto Notes, a study guide for medical licensing exams. For the past year, she has been sunning herself in California while performing the duties of an internal medicine intern at St. Mary Medical Center in Long Beach. She hopes to one day publish a book of her reflections on the practice of medicine in the urban community hospital and the growing pains of becoming a doctor. Margaret enjoys creative writing, poetry blogging, cheese, vintage fashion, 1980s music, and history. She is pursuing AP/CP training.



**Tricia Cottrell, M.D., Ph.D.**, was born and raised in St. Louis, Missouri. She attributes much of her future success to participation on her high school's speech and debate team. Tricia attended college at Washington University in St. Louis and majored in chemistry and English literature. Throughout college, she worked in the lab of Dr. Tamara Doering where she studied *Cryptococcus neoformans*, and also spent a semester abroad at University College London. She then moved to Baltimore to join the Johns Hopkins M.D./Ph.D. program. Her Ph.D. thesis was completed in the lab of Dr. Antony Rosen in the Division of Rheumatology, focusing on the identification of novel scleroderma autoantigens expressed by differentiating stem cells. Tricia and her husband, a software engineer at Johns Hopkins, enjoy volleyball (playing, watching, coaching—really, a lot of volleyball), hiking, biking, running, soccer, the zoo, and gardening. Tricia is pursuing AP-only training with a continuing interest in the role of target tissues in driving autoimmunity.



**Elise Gelwan, M.D.**, was raised in Glastonbury, Connecticut. She attended Wesleyan University in Middletown, Connecticut where she majored in biology, and received her medical degree from the University of Connecticut School of Medicine. Between her second and third years of medical school, she completed a post-sophomore fellowship in the pathology department at UConn School of Medicine, which confirmed her love for the field of pathology. During her final year of medical school, she conducted a research project at Hartford Hospital that evaluated the clinical significance of increased duodenal intraepithelial lymphocytes in patients with normal villous architecture. Elise enjoys playing the piano, going on long walks and hikes, quoting lines from her favorite TV shows, and spending time with family. She is looking forward to learning about Baltimore. Elise is pursuing AP/CP training.





**Tatianna (Tasha) Larman, M.D.**, was born into a Marine Corps family and grew up with her parents and two brothers on military bases around the world. She earned her undergraduate degree in biology from Harvard University and spent the following two years working in a biotech start-up company in Italy, where she developed a passion for cooking and appreciation for delicious food. During medical school at the University of California San Diego, she returned to Boston for two years as a Howard Hughes medical fellow, studying the role of mitochondrial dysfunction in cancer using next-generation DNA sequencing. Tasha loves to explore her surroundings and also enjoys being creative in the kitchen, spending time outdoors, yoga, boxing and kickboxing, and most of all, having adventures with her husband Ben and daughter Zola. Tasha is pursuing AP/CP training.



**Yunjie (Angel) Li, M.D.**, was born in Lanxi, China and grew up in Ellicott City, Maryland. She received her B.S. in biological sciences from the University of Maryland, College Park and her M.D. from the University of Maryland School of Medicine. During medical school, Angel spent a year as a post-sophomore fellow in the department of pathology, where she gained experience in surgical pathology and autopsy. She also conducted research on the relationship between *Propionibacterium acnes* infection and prostate cancer. She was actively involved with the Pathology Student Interest Group and was awarded the Dr. Francis Donaldson Prize for Excellence in Pathology. In addition to pathology, Angel has a strong interest in Asian-American health disparities and spent a summer with the Arnold P. Gold Foundation to create culturally-appropriate Korean language brochures on nutrition and preventative health. Angel enjoys cooking, trying new cuisines, traveling, running, and singing karaoke. Angel is pursuing AP/CP training.



**Austin McCuiston, M.D.**, (pronounced McChristian) was born in Louisville, Kentucky and grew up on a farm outside of Murray, Kentucky. He received his B.S. in chemistry at Murray State University, where he played baseball as a pitcher for a short stint. He also went on three mission trips to Mexico with his church during his time at MSU. He then attended the University of Louisville School of Medicine, and studied the use of lipid microvesicles as potential biomarkers for the early detection of non-small cell lung cancer. Austin met and married his wife Hannah while at Murray State University. She just graduated with her M.S. in social work with an oncology social work specialization from the University of Louisville. Austin enjoys reading, cooking, trying new foods and restaurants, and traveling to spend time with family. Austin is pursuing AP/CP training.



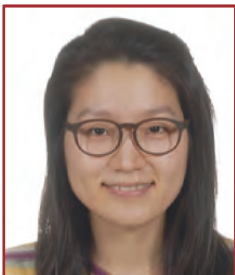
**James A. Miller, M.D., M.P.H.**, was born in Asheville, North Carolina. He began his studies in mathematics at the University of North Carolina at Asheville and was awarded a Hometown Hero award for his extensive volunteer work at local schools during his freshmen year. Jim completed his education at University of North Carolina at Chapel Hill, and afterwards spent three years working at the Morehead Planetarium and Science Center as a content developer, researcher, and science writer. Before leaving his post at the planetarium, Jim was awarded the first annual Jupiter Fellowship Grant to develop, organize, and construct an exhibit from start to finish. Jim returned to school in 2009, and began work on an M.D./M.P.H. track at the Brody School of Medicine at East Carolina University in Greenville, North Carolina. At Brody, Jim was best known for his innovative tutoring techniques and study materials, and he earned a student appreciation award in 2011 for these efforts. Jim's academic interests include epidemiology, disease outbreak modeling, and numerical simulation. Jim played the saxophone throughout high school and college. He enjoys classical music concerts, particularly Baroque music and small ensemble arrangements. Jim is pursuing AP/CP training.



**Drew T. Bell** was born in Newport Beach, California. He received his B.S. in microbiology from the University of California, Davis in 2013. His undergraduate research focused on the genetic influences on the range dynamics of *Gilia tricolor*, as well as *Eriophyllum mohavense*. After graduation Drew conducted research in a vegetable genomics lab that focuses on SNP identification to support conventional breeding programs. Experiences with immunology and infectious disease led him to pursue a medically-focused application of his expertise. He is particularly interested in the genetics of autoimmune diseases and cancer genomics. When not in the lab, Drew loves to longboard, backpack, and brew. Drew is excited to switch coasts and expand his research experience.



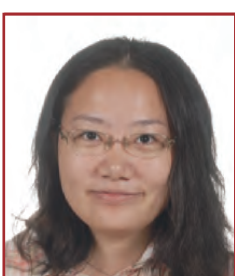
**Yu-Ting (Cindy) Chang** is from Taiwan. She received her bachelor's degree in life science and master's degree in physiology from the National Taiwan University. While a master's student, she dedicated herself to studying nephropathy, and found that hypermethylation of the EPO gene in erythropoietin-producing cells during renal fibrosis is one of the factors that causes inadequate erythropoietin production in patients with renal anemia. She plans to study cancer from the epigenetic aspect, and hopes to contribute to the understanding of and treatment for cancer. She looks forward to new experiences in the U.S. and at Johns Hopkins. Cindy loves to play table tennis, do crafts, play puzzle games, and watch TV series. She is also obsessed with delicacies and interested in learning how to cook them. Cindy is one of our Margaret Lee students.



**Bo-Ran Choi** was born in Seoul, South Korea, and received her D.V.M. and M.S. in science from Seoul National University in 2009 and 2012, respectively. Attending the Leadership Program for veterinary students at Cornell led her to seek additional research experience. In her master's program, Bo-Ran studied prion diseases and the molecular mechanism of protein aggregation in neurons. After joining a lab at the University of Pennsylvania, she researched a function of a striatal G protein called Rhes at the cellular and molecular level. With the generous support of a Fulbright Award for graduate studies, Bo-Ran would like to study the fundamental causes of brain neurodegeneration. In her free time, she enjoys dancing, cooking, and snowboarding.



**John Fissel** comes from the Land of Enchantment—Las Cruces, New Mexico. He received his B.S. in microbiology from New Mexico State University in 2013. While an undergraduate, he had the opportunity to join a lab that studied host-pathogen interactions between *Cryphonectria parasitica* (chestnut blight) and the American chestnut tree. Following graduation, he worked for a start-up algae biofuels company where his responsibility was to protect the algae crop from other competing contaminating algae, pests, and pathogens. When he is not at the bench or in the classroom, John is an avid video gamer, cinephile, sports nut, foodie, and Dachshund enthusiast.



**Minling Gao** was born in Wuhan, Hubei, China. She graduated in 2014 from Nanyang Technological University with a B.S. in biological sciences and a minor in computing. She has experience in both a dry lab and wet lab. Her main interest is cancer, particularly cancer genetics and epigenetics. Minling enjoys reading, travelling, photography, watching TV, and is currently studying French and guitar. Minling is looking forward to new experiences at Johns Hopkins. Minling is one of our Margaret Lee students.



**Cathy Guerra** comes from the diverse city of Pittsburgh, Pennsylvania. She received her B.S. in veterinary and biomedical sciences from Pennsylvania State University. Although she initially thought she would attend veterinary school following graduation, Cathy fell in love with research after joining a lab at Penn State. Cathy hopes to explore the bridge between basic science and clinical application. In her free time, Cathy enjoys running, hiking, and spending time with friends and family.





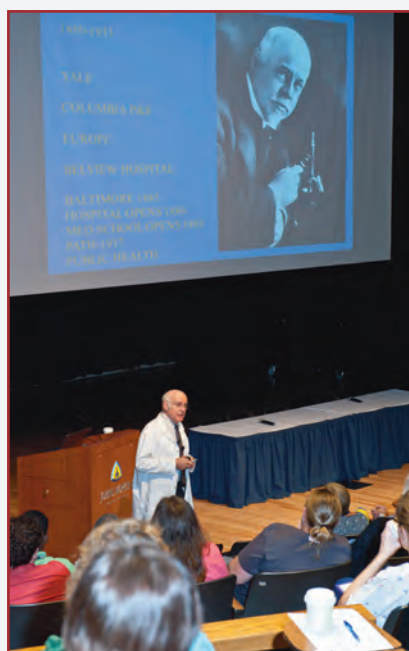
**Wei-Kai Huang** comes from Taipei, Taiwan and completed his M.S. in biochemistry and molecular biology at National Taiwan University in 2009. During his graduate study, Wei-Kai developed a novel kind of cationic lipid-modified nanoparticle which can be utilized for drug delivery and stem cell imaging. 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 Second Annual Pathology Educational Symposium



The Second Annual Pathology Educational Symposium was held September 29-October 2, 2014, on The Johns Hopkins Hospital campus in the Turner Building. Organized by the Department of Pathology's Continuing Education Committee, the Symposium offered 45 PACE-accredited sessions on various technical and nontechnical topics. Monday, September 29 kicked off with a lecture about the history of Johns Hopkins Pathology by Dr. Edward McCarthy, and the week progressed with presentations relating to the latest developments in clinical chemistry, informatics, surgical pathology, hematology, molecular pathology, transfusion medicine, microbiology, quality assurance, cytology, immunology, phlebotomy, and quality control. Laboratory staff also enjoyed sessions focused on new patient care initiatives, risk management, Lean principles, work environment, and more.

Over 600 people attended the Symposium, most of whom were pathology employees of The Johns Hopkins Hospital and the School of Medicine, Johns Hopkins Bayview Medical Center, Howard County General Hospital, and Suburban Hospital, as well as guests from affiliated labs and universities. Presenters included faculty, fellows, residents, staff, and speakers from other departments and industry. Attendees were very positive about their learning experiences, and planning is underway for the Third Annual Pathology Educational Symposium to be held in the fall of 2015. The CE Committee is especially grateful to all the volunteers who gave their time to make the Second Annual Pathology Symposium a success.



**NEW GRANTS AND CONTRACTS AWARDED TO PATHOLOGY FACULTY - 1/1/14 - 8/22/14**

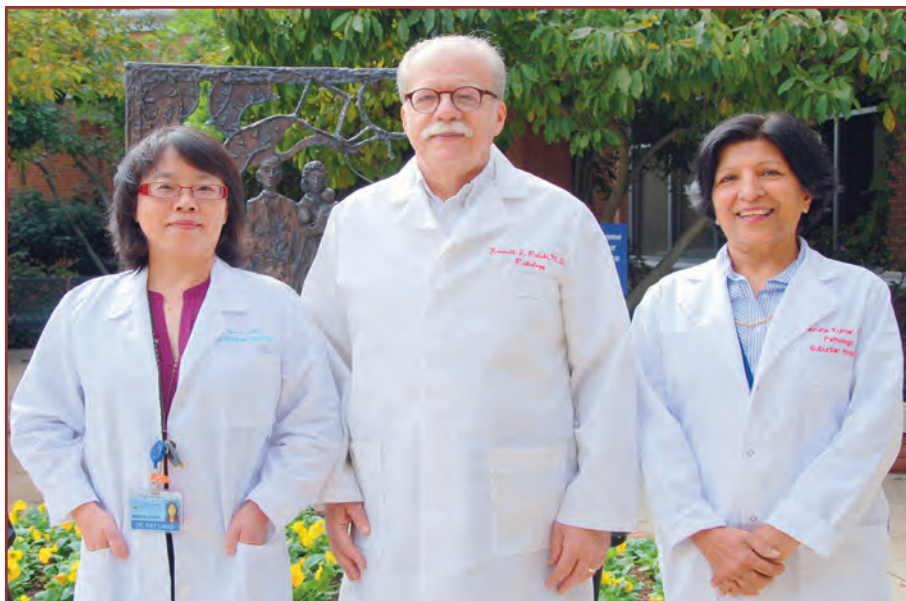
Faculty Member	Award Type	Agency	Dates	Total Funding
Amukele, Timothy	Contract	Gen-Probe Inc.	3/27/14 - 3/31/15	101,405
Asnaghi, Laura	Grant	Knights Templar Eye Foundation	7/1/14 - 6/30/15	60,000
Borowitz, Michael	Grant	Anderson Foundation	7/1/14 - 6/30/15	22,500
Carroll, Karen	Contract	Genmark Diagnostics	7/1/14 - 6/30/15	24,613
Carroll, Karen	Contract	Grupo Ferrer Internacional	7/1/14 - 9/30/14	7,202
Caturegli, Patrizio	Contract	Walter Reed Army Institute of Research	4/1/14 - 9/30/14	23,618
Cihakova, Daniela	R01 Grant	NIH/NHLBI	2/1/14 - 1/31/19	2,025,000
Cimino-Mathews, Ashley	Contract	GenenTech	6/17/14 - 6/17/15	60,785
Clarke, William	Contract	Thermo Fisher Scientific	6/1/14 - 5/31/16	120,000
Das, Samarjit	Grant	American Heart Association	1/1/14 - 12/31/17	308,000
Duffield, Amy	R21 Grant	NIH/NCI	12/1/13 - 11/30/15	87,585
Eshleman, James	Grant	Stringer Foundation	7/1/14 - 6/30/15	150,000
Heaphy, Christopher	Grant	Prostate Cancer Foundation	6/27/14 - 6/27/17	225,000
Hung, Chien-Fu	R21 Grant	NIH/NIAID	8/8/14 - 7/31/16	445,500
Jackson, Brooks	Contract	Merck & Co.	1/1/14 - 12/31/15	1,426,211
Jackson, Brooks	Contract	Janssen R&D Ireland	1/1/14 - 6/30/20	1,896,349
Jackson, Brooks	Contract	Janssen R&D Ireland	1/1/14 - 12/31/20	3,303,035
Jackson, Brooks	Contract	Merck & Co.	1/1/14 - 12/31/17	1,333,530
Jackson, Brooks	Contract	Merck & Co.	3/1/14 - 2/28/15	173,581
Jackson, Brooks	Contract	GlaxoSmithKline	1/1/14 - 12/31/15	2,849,466
Jackson, Brooks	Contract	Bristol-Myers Squibb	3/11/14 - 12/31/15	762,541
Machairaki, Vasiliki	Grant	Technology Development Corporation	6/30/14 - 6/29/16	230,000
Miyamoto, Hiroshi	Grant	Department of Defense	2/3/14 - 2/2/15	157,006
Miyamoto, Hiroshi	Contract	Astellas Pharma	4/14/14 - 10/31/15	13,074
Olson, Matthew	Contract	Biotime Inc.	1/19/14 - 1/18/15	27,667
Riedel, Stefan	Contract	Nanosphere	11/1/13 - 10/31/14	86,963
Riedel, Stefan	Grant	Centers for Disease Control	1/1/14 - 12/31/18	780,000
Riedel, Stefan	Contract	JMI Laboratories	4/9/14 - 7/8/14	1,500
Riedel, Stefan	Contract	JMI Laboratories	4/17/14 - 7/16/14	2,000
Riedel, Stefan	Contract	JMI Laboratories	4/1/14 - 6/30/14	1,100
Roden, Richard	R01 Grant	NIH/NCI	4/1/14 - 2/28/19	1,458,000
Schneck, Jonathan	Grant	Technology Development Corporation	4/1/14 - 12/31/14	100,000
Shih, Ie-Ming	Grant	Endometriosis Foundation of America	5/1/14 - 4/30/15	10,000
Vang, Russell	Contract	Inovio Pharmaceuticals	5/6/14 - 4/30/16	10,740
Vang, Russell	Contract	Inovio Pharmaceuticals	5/6/14 - 4/30/16	10,740
Vang, Russell	Contract	Inovio Pharmaceuticals	5/6/14 - 4/30/16	10,203
Wang, Tian-Li	R21 Grant	NIH/NCI	7/8/14 - 6/30/16	387,585
Wong, Philip	Grant	ALS Association	4/1/14 - 3/31/15	50,000
Wood, Laura	Grant	American Gastroenterological Assoc.	7/1/14 - 6/30/17	270,000
Wu, TC	R21 Grant	NIH/NCI	4/1/14 - 3/31/16	387,585
Wu, TC	R01 Grant	NIH/NCI	4/18/14 - 3/31/19	1,680,750
YuYu, Fnu	Grant	Ovarian Cancer Research Foundation	3/1/14 - 2/28/16	75,000
Zhang, Zhen	Contract	Leidos Inc.	2/21/14 - 2/20/15	74,983

**Total \$21,530,817**



## WELCOME SUBURBAN HOSPITAL PATHOLOGISTS

The Johns Hopkins Department of Pathology is delighted to welcome three “new” clinical associates who will provide services at Suburban Hospital, located in Bethesda, Maryland, effective October 1, 2014. Drs. Kaihui Liang, Kenneth Pataki, and Aruna Kumar have been providing clinical services at Suburban for many years under a private practice led by Dr. William Smith. As Pathology integrates further into the Community Division, the Community Division pathologists will join the Department.



*Drs. Kaihui Liang, Kenneth Pataki, and Aruna Kumar*

**Dr. Kaihui Liang** obtained her medical degree in 1984 from Hunan Medical University in Hunan, China, followed by a residency in pediatrics (1987), a fellowship in pediatric neurology (1990), and a residency in pathology (2006) from Georgetown University Hospital. In 2008, Kaihui completed a fellowship in cytopathology from Geisenger Medical Center in Danville, Pennsylvania. Kaihui is certified in AP/CP, and has been working as pathologist at Suburban since 2008.

**Dr. Kenneth I. Pataki** obtained his medical degree in 1970 from New York Medical College in Valhalla, New York, followed by a residency in AP/CP at the University of Miami Miller School of Medicine in 1974. Ken is board-certified in AP/CP, and has been working as a pathologist at Suburban since 1990.

**Dr. Aruna Kumar** obtained her medical degree from University of Rajasthan, India in 1972, followed by a residency in AP/CP from Eastern Virginia Medical School in 1981. She completed fellowships in AP from the Medical College of Virginia and hematopathology from Boston University Medical Center Hospital. Aruna has been working as a pathologist at Suburban Hospital since 1988.

## CONGRATULATIONS TO OUR NEW PROFESSORS



*Back row - Norman Barker, Ralph Hruban(Interim Director), George Netto  
Front row - Scheberazade Sadegh-Nasseri, Lori Sokoll*



**Norman Barker, M.A., M.S., RBP**, was recently named an Accredited Senior Imaging Scientist, and elected as a Fellow of The Royal Photographic Society. In June 2014 at the 84th annual meeting of the BioCommunications Association, he received an Award of Excellence in the general illustrative category for his photograph entitled, "Inside The Dome."

**Daniel W. Chan, Ph.D.**, was the recipient of the inaugural Award for Translational Proteomics by the Human Proteome Organization (HUPO) in October 2014 in Madrid, Spain. Dan is the inventor of OVA1 test for ovarian cancer, the first FDA-approved in vitro diagnostic multivariate index assays (IVDMIA). While he was chair of the prostate cancer group at the NCI, Early Detection Research Network, Dan was instrumental in the development of public-private partnerships leading to the clinical study and FDA approval of proPSA (phi) and PCA3 (PROGENSA).



**Toby C. Cornish, M.D., Ph.D.**, received the 2014 Educational Innovator Award for his work, along with Dr. Ralph Hruban, in developing novel iPad and iPhone teaching applications (apps) from the Institute for Excellence in Education in the Johns Hopkins University School of Medicine.

**Ralph H. Hruban, M.D.**, was formally inducted into the German National Academy of Sciences Leopoldina in July 2014. Founded in 1652, the German National Academy of Sciences is the world's oldest continuous existing academy of medicine and the natural sciences. To learn more about the German National Academy of Sciences, visit <http://www.leopoldina.org/en/about-us/>.



*Photo by Markus Scholz for the Leopoldina*



**Noel Rose, M.D., Ph.D., M.A.**, received the 2014 Leadership and Mentoring Award from the Institute for Excellence in Education in the Johns Hopkins University School of Medicine. This award recognizes outstanding achievement in mentoring. Dr. Rose was recognized for his work in guiding, supporting, and promoting the training and career development of others.



**Ie-Ming Shih, M.D., Ph.D.**, became the third Richard W. TeLinde Distinguished Professor of Gynecological Pathology (endowed chair) in January 2014. He and his research team have contributed to the fields of gynecologic pathology and gynecologic cancer research. He serves as editor-in-chief of Current Obstetrics and Gynecology Reports, an editorial board member of Cancer Research and many other journals, and as an advisor for several governmental and private organizations and foundations. Ie-Ming mentors a number of young investigators and is an invited speaker worldwide. Dr. Robert J. Kurman remains on the faculty and is now Emeritus Richard W. TeLinde Distinguished Professor of Gynecological Pathology.

**Alexandra Valsamakis, M.D., Ph.D.**, was voted president-elect of the Pan-American Society for Clinical Virology (PASCV) in 2014. She will serve as president in 2015-2016, and then serve as past president for a five-year cycle of service. PASCV aims are to foster the development of new techniques for rapid viral diagnosis, improve quality control for reagents, sponsor training programs, scientific meetings and symposia, disseminate relevant information, coordinate activities with other organizations, and encourage collaborative research. In recent years the PASCV has expanded its role to encompass all areas of clinical virology: viral pathogenesis, manifestations of disease, laboratory diagnosis, prevention, and therapy.





**As the Pathology Web presence continues to grow, we've branched out into several social media channels to make it easier to follow the Department and the latest news.**

Our Web office has posted a handful of new videos on YouTube, including new animations, interviews and presentations. The Pathology YouTube channel can be found at: <http://www.youtube.com/user/HopkinsPathology>.



Watch <http://pathology.jhu.edu/> for news on this and other departmental happenings.



You can now follow GI/Liver Pathology on twitter: [@Hopkins\\_GI\\_PATH](https://twitter.com/Hopkins_GI_PATH) and the Johns Hopkins Hospital Pathology Chiefs on twitter: [@JHHPathChiefs](https://twitter.com/JHHPathChiefs).



## BLAST FROM THE PAST



### ANSWER

Back - Phil Rutledge, Herbert Elliot, Dr. Yardley, Gerald Horne  
Front - Gertrude Brown, Nancy Folker

Photo from October 1971

## IN THE PHOTOGRAPHY AND GRAPHICS AREA

Pathology Photography provides world-class quality, service, and turnaround for printing your custom large format scientific, research and business posters. All poster orders are processed and printed on a one-day turnaround. Remember, when you need custom posters, just think Path Photo.

The size of your poster can be any size up to 4 ft. by 8 ft. (121 cm by 243 cm). We use a variety of software including, but not limited to, Adobe Illustrator, PowerPoint, PDF, Adobe Photoshop, and others. If you have any questions or concerns about what software to use, please contact **Sharon or RT** at 410-955-3843.

**Don't forget about our new foldable fabric for poster printing.** This poly fiber fabric is perfect for packing in a suitcase or keeping tightly rolled in a poster tube.

**Award-winning Digital Artist.** Congratulations to **Rick (RT) Tracey, RBP**, digital imaging specialist, who won first place in the National Arts Program, Hopkins Chapter. His winning piece, "Crepe Myrtle" and his other digital paintings can be seen on the Pathology Photography Art Gallery walls, located outside their main office.



## Have you moved or are in the process of moving ?

If so, please email **Ellen Winslow** at [ewinslo1@jhmi.edu](mailto:ewinslo1@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.*

## CALENDAR OF EVENTS

### March 21 – 27, 2015, 5:30 – 7:30 p.m.

United States & Canadian Academy  
of Pathology, 104th Annual Meeting  
Fellowship Fair  
Hynes Convention Center  
Boston, Massachusetts

### March 23, 2015, 5:30 – 7:30 p.m.

United States & Canadian Academy  
of Pathology, Johns Hopkins Pathology  
Alumni Reception  
Boston, Massachusetts

### March 30, 2015, Noon – 4:00 p.m.

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

### May 1, 2015

Pathology Awards Dinner  
The Baltimore Marriott Waterfront Hotel  
Baltimore, Maryland

### June 4 – 7, 2015

Johns Hopkins 38th Biennial Meeting & Reunion  
Baltimore, Maryland

### June 5, 2015, 8:30 – 10:00 a.m.

Johns Hopkins 38th Biennial Meeting & Reunion  
Pathology Grand Rounds  
Baltimore, Maryland

### June 5, 2015

Portrait Unveiling for Dr. J. Brooks Jackson  
Johns Hopkins 38th Biennial Meeting & Reunion  
Baltimore, Maryland

## 2014 PATHOLOGY YOUNG INVESTIGATORS' DAY AWARDEES

### Congratulations to the Top Award Recipients

**Basic:** Martin Samuel Taylor, B.S.E.

**Clinical:** Genevieve M. Crane, M.D., Ph.D.

**Translational:** Ulf D. Kahlert, Ph.D.

#### For Excellence in Basic Research

Martin Samuel Taylor, B.S.E.  
David Nauen, M.D., Ph.D.  
Sheng Wang, Ph.D.  
Gretchen Hubbard, Ph.D.  
Maria Noel Martina Lingua, M.D.  
Yuri O. Poluektov, B.S.  
Jillian Legault, M.S.  
Maria Elisa Perez-Munoz, Ph.D.

#### For Excellence in Clinical Research

Genevieve M. Crane, M.D., Ph.D.  
Guoli Chen, M.D., Ph.D.  
Christopher VandenBussche, M.D., Ph.D.  
Brittany Holmes, M.D.  
Athena Kantartzis Petrides, Ph.D.  
Nathaniel Smith, M.D.  
Iris Chen, B.S.

#### For Excellence in Translational Research

Ulf D. Kahlert, Ph.D.  
Alexander S. Baras, M.D., Ph.D.  
Fnu Yuyu, Ph.D.  
Ren-Chin Wu, M.D.  
Allison Hanaford, B.S.  
Joshua Weiyuan Wang, B.Sc.  
Harpreet Kaur, Ph.D.  
Anne Macgregor-Das, B.S.  
Christian Schuetz, Ph.D.  
Ajay Vaghasia, B.S.  
Chad M. McCall, M.D., Ph.D.

*The Department of Pathology again enjoyed an excellent turnout at the 2014 Young Investigators' Day.*

Department of Pathology  
The Johns Hopkins Medical Institutions  
600 North Wolfe Street, Carnegie 417  
Baltimore, MD 21287-6417  
410-955-9790

Interim Director  
Ralph H. Hruban, M.D.

Editors:  
Vanessa Rodas-Eral  
Sandy Markowitz

Technical Advisor/Graphic Arts:  
Rick M. Tracey, R.B.P.

Photography:  
Pathology Photography Staff

Copy Editor:  
Renata Karlos

Department of Pathology Web site:  
<http://pathology.jhu.edu>