The Department is delighted to welcome **Dr. Jacob Rand**, Professor of Pathology and Laboratory Medicine, as Vice Chairman for Laboratory Medicine and Director of the Clinical Laboratories.

Dr. Rand comes to us from Montefiore Medical Center and the Albert Einstein College of Medicine where he served as the Director of Hematology, Advanced Coagulation and Protein Separation Laboratories and as Professor of Pathology, Medicine, and Obstetrics and Gynecology, and Director of the Hematology Laboratories. Dr. Rand’s record of achievement spans across disciplines, with strong backgrounds as a clinical physician, clinical laboratory director, teacher and basic scientist.

Dr. Rand received his Medical Degree from Albert Einstein College of Medicine and did residencies in Autopsy Pathology at Montefiore Hospital/Albert Einstein College of Medicine with Drs. Harry Zimmerman and Leopold Koss, and in Internal Medicine with Dr. Richard Gorlin at Mount Sinai Hospital. Dr. Rand then returned to Montefiore for Hematology fellowship training in both clinical and laboratory hematology with the legendary “clotter” Dr. Theodore Spaet. He then joined the faculty of the Mount Sinai School of Medicine where he rose to Professor of Medicine and Pathology, served as director of the Medical School blood course, was Chief of the Clinical Thrombosis & Hemostasis Service, directed the clinical hematology laboratories, and did basic and translational research.

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**Research Highlights**
by David P. Hajjar, PhD

Drs. Jacob Rand and Xiao-Xuan Wu.

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**Localization of Annexin A5 on the surface of placental trophoblasts**

Figure 1: Expression of AnxA5 (green fluorescence) on cultured syncytiotrophoblasts. Blue (DAPI) fluorescence marks the nuclei. (bars = 50 μm. Confocal microscopy 3-dimensional projections of Z-axis image stacks, voxel size (μm): width 0.73, height 0.73, and depth 1.50) (for complete description, see Wu XX, Guller S, Rand JH. Hydroxychloroquine reduces binding of antiphospholipid antibodies to syncytiotrophoblasts and restores annexin A5 expression. Am J Obstet Gynecol. 2011 Dec; 205(6):576.e7-14.)

**Atomic force Microscopy: Structure of aPL Ig-β2GPI Complexes**

Figure 2: Atomic force microscopy images of the effect of hydroxychloroquine on a gallery of antiphospholipid immune complexes that were formed on a planar bilayer over an ultrasmooth mica chip. (for complete description see Rand JH, Wu XX, Quinn AS, Chen PP, Hathcock JJ, Taatjes DJ. Hydroxychloroquine directly reduces the binding of antiphospholipid antibody-beta2-glycoprotein I complexes to phospholipid bilayers. Blood. 2008 Sep 1;112(5):1687-95.)
The Department is thrilled to announce the formation of the new Division of Molecular and Genomic Pathology and the opening of its new, state-of-the-art Molecular Pathology Laboratory.

The Division of Molecular and Genomic Pathology will be led by Dr. Mark A. Rubin, Vice Chairman for Molecular and Genomic Pathology and Professor of Pathology and Laboratory Medicine. The focus of the Molecular and Genomic Pathology Division is to provide Weill Cornell Medical College physicians with molecular information that will facilitate the diagnosis of diseases, monitor the prognosis of the patients and assist in the selection of appropriate therapeutic options. Our state-of-the-art facility uses innovative genomic technologies to interrogate and identify disease related entities in solid tumors, hematologic malignancies, infectious diseases and inherited diseases. Working closely with our clinicians, our mission is to provide molecular testing of the highest quality with a direct impact on patient care.

The Division of Molecular and Genomic Pathology at New York-Presbyterian/Weill Cornell Medical College is comprised of two main entities: The Molecular Pathology and Molecular Hematopathology Laboratories, both of which are CLIA-certified and accredited by New York State Department of Health (NYS DOH) and the College of American Pathologists (CAP).

The Molecular Diagnostics Laboratory offers molecular pathology services in infectious disease, transplant, genetics and solid tumors, including a NYS DOH-approved 50-gene panel next-generation sequencing test for identification of mutations in cancer. The laboratory is directed by Hanna Rennert, PhD, FACMG, and Helen Fernandes, PhD.

The Molecular Hematopathology Laboratory performs molecular-based tests to aid in the diagnosis and management of hematologic cancers and offers expert consultation in specialized molecular testing for hematopathologists and clinical hematologists. The primary goal of the laboratory is to provide accurate molecular diagnostic information using modern technology to facilitate the delivery of excellent personalized health care to patients inflicted with hematologic malignancies. The laboratory is directed by Wayne Tam, MD, PhD.

The Institute for Precision Medicine (IPM) at Weill Cornell Medical College and NewYork-Presbyterian Hospital is a translational research hub, under the direction of Dr. Mark Rubin. The IPM team of physician-scientists are directing their collective expertise and wealth of knowledge to pinpoint the molecular underpinnings of disease and spur the discovery of novel therapies. The Division of Molecular and Genomic Pathology works in close collaboration with the IPM.

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- Mark A. Rubin, MD
- Ethel Cesarman, MD, PhD
- Helen Fernandes, PhD
- Wayne Tam, MD, PhD
- Yen-Chun Liu, MD, PhD
- Hanna Rennert, PhD

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Next generation sequencing data in Integrative Genomic Viewer (IGV) showing deletion of exon 19 sequence in EGFR (EGFR del19) and the corresponding Sanger sequencing below. The solid line in IGV corresponds to the deleted exon 19 sequence relative to the reference gene. The black arrow in the Sanger sequencing electropherogram represents the first nucleotide of the deletion.

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**Focus**

*by Daniel M. Knowles, MD*

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Clinical Pathology Update

Two new Transfusion Medicine faculty join the Department

Dr. Yen-Michael S. Hsu

Dr. Yen-Michael S. Hsu received his PhD from the University of Texas Graduate School of Biomedical Sciences MD Anderson Cancer Center in Houston, Texas in 2008 and his MD from the University of Texas Medical School at Houston in 2010. He subsequently completed residency training in Clinical Pathology at Washington University School of Medicine in 2013. He recently completed a Blood Banking/Transfusion Medicine Fellowship at the Blood Centers of the Pacific/UCSF Medical Center, and is joining the department as an Assistant Professor of Pathology and Laboratory Medicine and Assistant Director of Transfusion Medicine and Cellular Therapy.

Dr. Hsu can be reached at: ysh9001@med.cornell.edu or at: 212-746-2212.

Dr. Ljiljana Vasovic

Dr. Ljiljana Vasovic received her medical degree, clinical training and two years of research training at the University of Belgrade in Serbia. This was followed by a research fellowship at Memorial Sloan Kettering Cancer Center from 1992 to 1998. She completed her training in Anatomic and Clinical Pathology at Lenox Hill Hospital in 2002, did a fellowship in Hematopathology at Albert Einstein College of Medicine in 2003, and a fellowship in Transfusion Medicine at the Brigham and Women’s Medical Hospital in Boston in 2004. She was then recruited to the Montefiore Medical Center where she served in the Trans-fusion Medicine Division and as an Assistant Professor of Pathology at the Albert Einstein College of Medicine. Dr. Vasovic joins us as an Assistant Professor of Pathology and Laboratory Medicine, and will hold the titles of Associate Director of Cellular Therapy and Assistant Director of Transfusion Medicine. She is board certified in Anatomic Pathology and Clinical Pathology, Transfusion and Blood Banking, and Hematology.

Dr. Vasovic can be reached at: ljv9004@med.cornell.edu or at: 212-746-6106.

Dr. John V. Mitsios

Dr. John V. Mitsios received his Masters of Science in Biochemistry in 2002 and his PhD in Chemistry in 2006 from the University of Ioannina, Greece. In 2010, he completed a post-doctoral fellowship at the University of California-San Diego, followed by a two-year Clinical Chemistry fellowship at the Washington University School of Medicine in St. Louis, Missouri. He joins the department as an Assistant Professor of Pathology and Laboratory Medicine and as Assistant Director, Central Laboratory and Assistant Director, Point of Care Services.

Dr. Mitsios can be reached at: jom9227@med.cornell.edu or at: 212-746-2096.

Dr. Joshua A. Hayden

Dr. Joshua A. Hayden received his PhD from the Carnegie Mellon University in 2011. Subsequently, he completed a post-doctoral fellowship at MIT in 2012, and recently completed a two-year long fellowship in Clinical Chemistry at the University of Washington, Seattle. He is trained in all aspects of clinical chemistry including test development, test interpretation, test utilization, quality assurance in the clinical laboratory, regulatory compliance and risk management. Dr. Hayden joins the Department of Pathology as an Assistant Professor of Pathology and Laboratory Medicine, the Assistant Director of the Central Laboratory and Director, Toxicology and Therapeutic Drug Monitoring.

Dr. Hayden can be reached at: jah9108@med.cornell.edu or at: 212-746-5748.

We are also delighted to welcome two clinical chemists:

Research Highlights

continued from page 1

Dr. Rand has made significant contributions to our understanding of the role of von Willebrand factor in mediating platelet adhesion to sub-endothelial components. He also co-founded the first international web-based registry for the acquired form of the bleeding disorder known as von Willebrand disease.

In addition, Dr. Rand and his research group have made major contributions to unraveling the pathogenesis of an enigmatic autoimmune thrombophilic condition, the antiphospholipid syndrome (APS), that results in vascular thrombosis and pregnancy complications.

The antiphospholipid-annexin A5 research team members include Dr. Rand’s longtime laboratory manager and research partner, Dr. Xiao-Xuan Wu, who joined the Department of Pathology and Laboratory Medicine at Weill Cornell Medical College, along with Dr. Rand.

Dr. Rand’s work has led to the discovery of the “Disruption of the Annexin A5 Anticoagulant Crystal Shield” concept as a thrombogenic mechanism in this disorder (see Figure 1). The finding, which has been validated in clinical trials, was translated into a novel clinical assay for this disease process. On the therapeutic end, Rand’s team has discovered several drugs that in *in vitro* studies, appear to target and reverse this disease mechanism.

The most exciting candidate is hydroxychloroquine (HCQ) (see Figure 2), a synthetic antimalarial drug that has been used for over 60 years for treating that infection and for other autoimmune conditions – particularly systemic lupus erythematosus (SLE). A prospective clinical trial of this medication, sponsored by investigators at the Hospital for Special Surgery, is currently underway. We welcome them both!

We have a new Website and Video Gallery!

Visit us at: www.cornellpathology.org
Keynotes

by Domenick J. Falcone, PhD

Dr. Ethel Cesarman has been continuing to focus her research on understanding the pathobiology and improving the diagnosis and treatment of cancers frequently associated with viral infection. She has been involved in supervising the pathologic diagnosis of Kaposi’s sarcoma and lymphoma in Africa, and improving the diagnostic methodologies by developing new point-of-care assays. Towards these efforts, she traveled in February to Tanzania, Kenya and Uganda, where she worked with pathologists at these sites towards initial testing of a solar-powered PCR device, coupled with cell phone detection. Dr. Cesarman was invited to participate in a Provocative Questions Workshop on HIV and AIDS Research on March 2014 at the NIH, and to serve as a reviewer for a Special Emphasis Panel/Scientific Review Group for Centers for AIDS Research in November. In 2014, she was invited to give a seminar at the Sibley School of Mechanical and Aerospace Engineering in Cornell University in Ithaca. Dr. Cesarman presented at a meeting organized by the International Network for Cancer Treatment and Research (INCTR) in Tanzania entitiled: “4th Meeting and Tutorial on Infectious Agents and Lymphoma: What can we learn from Africa?” She was also an invited speaker at the 55th National Congress of the Mexican Association for the Study of Hematology (AMEH) in Guadalajara, Mexico.

In November, Dr. Scott Ely was granted a US patent for the use of duplex immunostaining, along with his collaborators, Dr. Selina Chen-Kiang and Dr. Maurizio DiLiberto. It is a broad patent covering the use of any membranous stain in conjunction with any nuclear stain. Along with other faculty, the trio published a high-impact paper that has generated much discussion and commentary (Cancer Discovery 4(9):1022-1033, 2014). Dr. Ely traveled to Berlin, Germany to address the Global Technology Community regarding the use of multiplex IHC and image analysis for diagnosis, prognosis and prediction in lymphoma and myeloma.

In April, Dr. Ely gave an address at the International Myeloma Workshop, in Kyoto, Japan, regarding the use of these platforms and presented clinical validation in a talk entitled New Assay Predicts Myeloma Survival and Progression. In July, he was invited to participate in the International Myeloma Foundation’s Black Swan initiative-sponsored round table discussion on the use of flow cytometry for minimal residual disease (MRD) testing. In October, Dr. Ely traveled to Dublin Ireland, to deliver a talk, “Cell-Specific Proliferation: A Valuable and Feasible Indicator in All Cancers,” at the Departments of Pathology, in Trinity College Dublin, The University of Dublin, and St. James Hospital. During the same trip, Dr. Ely addressed the New York-Presbyterian Hospital/Weill Cornell Medical Center Myeloma Ireland Consortium, National Hematology Clinical Trials Program at the Mater University Hospital with a talk entitled, “Myeloma Proliferation, a Feasible Risk Stratification Tool.”

In September 2014, Dr. Annarita Di Lorenzo attended the annual meeting of the American Heart Association on Hypertension in San Francisco, CA where she presented a poster, “Endothelial-derived sphingolipids preserve systemic vascular function and blood pressure” (Cantalupo A, Zhang Y, Kothiya M, Galvani S, Obinata H,ucci M, Giordano FJ, Jiang XC, Hla T, Di Lorenzo A). In addition, Dr. Di Lorenzo currently serves as a reviewer for the American Heart Association’s vascular wall biology study section.

In June 2014, Dr. Domenick J. Falcone received a dedicated service award for longstanding leadership in the Medical College curriculum, and an award for teaching excellence in the Host Defenses course. Dr. Falcone was appointed basic science theme leader for the Essential Principles of Medicine (EPOM) segment of the new curriculum. In addition, he was selected to serve as leader of the Injury, Infection, Immunity and Repair learning unit of EPOM.

In 2014, Dr. David Hajjar was selected by the National Academy of Sciences to be a Jefferson Science Fellow, working in the U.S. State Department as a Foreign Affairs Officer, Bureau of Oceans, Environment and Science - Offices of International Health and Science and Technology to advise the Secretary of State on issues related to human health and disease. He was also awarded an Honorary Doctorate of Humane Letters (D. Litt.) from the University of New Hampshire, and served as Co-Chairman of the International Conference on Science and Technology, Education and Innovation, held at University of Cambridge, England, August 2014. Dr. Hajjar received the Weill Cornell Medical College Dedicated Service Award in June 2014.

In 2014, Dr. Timothy Hla was invited to attend the following conferences to lecture on the role of sphingolipids in health and disease: Knight Cardiovascular Center, Oregon Health and Science University, Portland, OR, University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA, International Vascular Biology Meeting, Kyoto, Japan, Gordon Research Conference in Barcelona, Spain, Experimental Biology 2014, ASMBM Symposium on Sphingolipids, and Molecular Medicine of Sphingolipids, EMBO Conferences, Kloster Banz, Franconia, Germany. He was also invited as a Visiting Professor to the Duke/National University of Singapore School of Medicine, Singapore in April 2014. In addition, he was invited to present at the Lipid Mediators in Health and Disease, Karolinska Institutet, Stockholm, Sweden, which honored the 1982 Nobel Prize Laureate Bengt Samuelsson. Dr. Hla traveled to Germany to attend the Kloster Seeon meeting on angiogenesis, to give a research presentation, and he visited the Max Planck Institute for Heart and Lung Research, Bad Nauheim, where he discussed vascular biology research with scientists and also gave a research presentation.

Dr. Rana Hoda held the 5th Annual Papanicolaou tutorial on updated diagnostic cytopathology in July 2014. She was involved in presenting educational courses at the Annual Meetings of the USCAP in San Diego, CA and at the ASCP in Tampa, FL. Dr. Hoda also presented on cytopathology-related topics at the Annual Meetings of the European Congress of Cytology in Geneva, Switzerland and at the American Society of Cytopathology in Dallas, TX. Dr. Hoda spent time in Kigali where she participated in the training of Pathology Residents at the University of Rwanda.

Dr. Syed A. Hoda was involved in presenting educational courses at the Annual Meetings of the USCAP in San Diego, CA and at the ASCP in Tampa, FL. He also presented on breast pathology-related topics at the Annual Meetings of the European Congress of Cytology in Geneva, Switzerland and at the American Society of Cytopathology in Dallas, TX. Dr. Hoda spent time in Kigali where he participated in the training of Pathology Residents at the University of Rwanda.

Dr. Yen-Michael S. Hsu was invited to give a lecture at the California Blood Bank Society Transfusion Medicine Regional Seminar, March 7, 2014 (Stanford Medical Center, Palo Alto, CA), on the topic of “Platelet Additive Solutions (PAS) and the impact on TRALI mitigation.”

Dr. Manu Jain presented two posters in the field of in vivo microscopy/optical imaging at the International Academy of Pathology Congress 2014, Bangkok, Thailand: “Rapid evaluation of fresh ex vivo kidney tissue with full field optical coherence tomography” and “Identifying signatures of normal and disease in freshly excised non-neoplastic kidney tissue with multiphoton microscopy.” Earlier this year, in March, her abstract “Characterization of prostate cancer by high resolution 7 Tesla MRI: Towards in vivo histology” was invited for a podium presentation in the European Urology Congress 2014, Stockholm, Sweden. Later that month, she presented 3 posters on optical imaging techniques at the USCAP 2014 annual meeting in San Diego.

Dr. Stephen Jenkins was awarded the Weill Cornell College of Medicine, Division of Infectious Diseases Faculty Excellence Award for 2013/2014. In addition, he was named Co-chair of the Methods Working Group for the Subcommittee on Antimicrobial Susceptibility Testing for the Clinical and Laboratory Standards Institute.
Dr. Daniel M. Knowles has been recognized as a lifetime member of the Worldwide Registry of Executives, Professionals and Entrepreneurs in September 2014 and Dr. Knowles continues to be listed as one of the “Best Doctors in America.” Dr. Knowles organized the Northeast Association of Pathology Chairs annual meeting in Cambridge Beaches, Bermuda from September 11th through September 14th 2014. He chaired a session on genomics which featured Mark Rubin representing the Weill Cornell program and genomics experts representing the University of Pennsylvania, the Brigham and the Yale programs. Other agenda items included value-based initiatives in pathology and laboratory medicine. Dr. Knowles did a presentation on “Designing the Ideal Residency Program.” Dr. Knowles was invited to lead a guided wine tasting for the Center Alumni Council (CAC)’s “Wine and Tapas” evening on May 15, 2014 in the Griffis Faculty Club. Dr. Knowles selected five wines and paired them with a tasting menu created by Taasha Ramsay of the Griffis Faculty Club. More than 70 individuals participated. The tasting kicked off with a 2011 Kistler Chardonnay, McCrae Vineyard, followed by a flight of three red wines, Orin Swift, The Prisoner 2012, Brewer Clifton, Pinot Noir Zotovich 2009 and Beringer Vineyards Private Reserve Cabernet Sauvignon 2010. The night ended with a Sauterne, the Chateau Lafaurie Peyraguey 2007. Earlier this year, Dr. Knowles, Dr. Orazi and Dr. Chadburn attended the annual Tutorial on Neoplastic Hematopathology, directed by Dr. Knowles, in Miami, Florida from January 27th to January 31st, 2014. The program consisted of lectures, case presentations and discussions designed to provide pathologists with an in-depth discussion of diagnostic problems that arise in neoplastic hematopathology. Dr. Amy Chadburn lectured on “Immune Deficiency-Associated Lymphoproliferative Disorders” and Dr. Attilio Orazi lectured on “Myelodysplastic Syndromes” and “Myelodysplastic/Mobileproliferative Neoplasms.”

Knowles’ Neoplastic Hematopathology, Third Edition, won First Prize in the Pathology category at the 2014 British Medical Association (BMA) Medical Book Awards in October 2014. This is a great achievement and a testament to the quality of the text.

“This is a superb and comprehensive book with well-thought out illustrations which is useful for both established consultant haematopathologists as well as trainees. It is also very useful for those who treat such patients clinically. This book provides the intended target readership with in-depth knowledge that can be accessed easily either via the book directly or via the weblink. There are a number of haematopathology books out there but none that cover the spectrum as well as this book does, they tend to either concentrate on haematological aspects or on pathological aspects, but not both. The references are as up-to-date as a book can be, there is always additional material but this is because knowledge is ever changing, this book would be highly recommended by me, in fact in whilst reviewing it I have had a number of colleagues queuing up to borrow it. It has been a pleasure to review and I have learnt much whilst doing this. The only thing (and this is tiny nitpicking) it would have been good to have a separate paediatric chapter but I am biased being paediatrically based. Highly recommended.”

-The British Medical Association (BMA)

Dr. Juan Miguel Mosquera was a Visiting Lecturer at Emory University School of Medicine and the Winship Cancer Institute (Atlanta, GA January 2014), where he presented recent data on prostate cancer biomarkers as part of the Early Detection Research Network (EDRN) multi-institutional studies. Dr. Mosquera was also a Visiting Lecturer at the 2014 Cancer Biomarker Conference of The Methodist Hospital Research Institute (Houston, TX, March 2014), where he presented “Biomarker Testing in Prostate Cancer.” At the 103rd Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), held in March of this year in San Diego, CA, Dr. Mosquera presented “NAB2-STAT6 Fusion and STAT6 Immunohistochemistry Help Differentiating Sino-nasal Hemangiopericytoma-Like Tumor from Solitary Fibrous Tumor.”

Dr. Hanna Rennert was invited to give a plenary lecture at the Korean Society of Laboratory Medicine Annual Meeting in Daegu, Korea in October 2013. The title of her talk was “Practical Approaches in Molecular Oncology Testing.” She also presented a talk about this subject at the Department of Pathology Grand Rounds, Hadassah-Hebrew University Medical Center, Jerusalem, Israel in December of 2013. In June 2013 she co-chaired a three day Molecular Center of Excellence (MCOE) meeting in New York, NY. The MCOE Annual Scientific Meeting is a collaborative effort between the MCOE (an alliance of molecular centers across the US designed to be a “best practices” collaborative entity, to advance scientific discussion with members having access to the experiences and technical expertise of other colleagues in the field) and Roche Diagnostics. As part of a Multi-Institute Collaboration group with Roche Molecular Systems, Inc. focused on CMV clinical testing, Dr. Rennert presented a poster entitled “CMV DNA viral load test: A comparison between methods at low CMV DNA levels (ENGAGE Study)” at the Clinical Virology Symposium in April of 2014. In addition, with coauthors Drs. Tan and Dr. Blumenfeld, Dr. Hanna Rennert has developed a long-range PCR (LR-PCR) and next generation sequencing (NGS) method, an amplicon-based genetic approach for identifying mutations in the polycystic kidney disease (PKD) genes. This test is currently used for patients participating in the Autosomal Dominant Polycystic Kidney Disease (ADPKD) Data Repository Research Program of the Rogosin Institute; it has been recently published in the Journal of Molecular Diagnosis. In collaboration with BioMérieux, Dr. Rennert has also presented a poster describing the development of a BK virus quantitative real-time PCR assay for monitoring viral load levels in transplant patients at the Clinical Virology Symposium in April of 2014.

The GME council approved Dr. Audrey N. Schuetz’s proposal for a Pathology elective in Tanzania for interested pathology residents. She will mentor residents who wish to work on Pathology and Lab Management projects while in Weill Bugando Center in Mwanza, Tanzania. Dr. Schuetz recently traveled to Port-au-Prince, Haiti on a training grant to provide guidance for the GESKIO microbiology laboratory. As part of the Infectious Diseases course in Salzburg, Austria, she mentored interested international students and lectured on several topics, including the diagnosis of tuberculosis. Dr. Schuetz was an invited speaker at the E.G. Scott Microbiology Symposium in Delaware, which honors the grandfather of clinical microbiology and co-author of the classic text: Bailey and Scott’s Diagnostic Microbiology.

continued on page 6
New York-Presbyterian Hospital/Weill Cornell Medical Center

Keynotes continued from page 5

› Dr. Audrey N. Schuetz continued

She also spoke on Emerging Technologies at the annual 2014 American Society for Clinical Pathology meeting. She was an invited Grand Rounds speaker at Case Western Reserve University in February 2014, where she spoke about toxoplasmosis.

› Dr. Surya Seshan received the Jacob Churg Award this year from the Renal Pathology Society (RPS) for outstanding contributions to the field of Renal Pathology at the USCAP meeting in San Diego in March.

She was an invited speaker at the 12th Banff Conference on Allograft Pathology in Brazil, and spoke about: “Antibody mediated rejection in pancreas transplants” and “Classification of lupus nephritis” in the RPS Consensus Meeting Updates on investigation and treatment.

Surya Seshan was a member of the Program Committee and a lecturer for the renal pathology sessions of the International Academy of Pathology held in Bangkok, Thailand in October 2014. She is serving as the Chair of the ad hoc Committee for the Renal Pathology Society International Conferences, and is a member of the Pathology Committee of the International Society of Nephrology. In addition, Dr. Seshan has been the Abstract Reviewer for “Kidney and Genitourinary Pathology” for the College of American Pathologists for the last 6 years. Dr. Seshan also contributed several chapters to 3 books on subjects such as para-neoplastic glomerulonephritides, de novo and recurrent glomerular diseases post transplantation and various aspects of pancreas transplantation.

› Dr. Jae-Hyuck Shim is the recipient of the 2014 Cell Signaling Technology (CST) Academic Project Grant for PTMScan Discovery. Dr. Shim’s lab will be provided with PTMScan Discovery services that employ CST proprietary motif antibodies for peptide enrichment in conjunction with tandem mass spectrometry for quantitative profiling of post-translational modifications (PTMs) to cellular proteins.

› Dr. Rhonda K. Yantiss served as Chair of the Nominations Committee and member of the Executive Committee of the Rodger C. Haggitt Gastrointestinal Pathology Society. She was invited to speak at the 2014 United States and Canadian Academy of Pathology Long Course in San Diego, California and delivered Grand Rounds in the Department of Pathology at Yale University School of Medicine. She also spoke at the 2014 Update in Gastroenterology, Hepatology, & Nutrition Post-Graduate Course sponsored by Columbia University College of Physicians & Surgeons and Weill Cornell Medical College. Dr. Yantiss was awarded the Arthur Purdy Stout Society Prize. She was invited to participate in the 9th International Congress on Peritoneal Surface Malignancies in Amsterdam, Netherlands to discuss classification and diagnosis of pseudomyxoma and appendiceal neoplasia. In November, Dr. Yantiss served as Course Director and lectured at the Tutorial on Pathology of the GI Tract, Pancreas, and Liver held in the Walt Disney World Swan and Dolphin Resort in Orlando, Florida.

Celebrating Diwali!

Diwali is an ancient Hindu festival celebrated in autumn every year. The festival signifies the victory of light over darkness, knowledge over ignorance, good over evil, and hope over despair. It was a pleasure to celebrate together!

(left to right) S. Seshan, MD; S. Mathew, PhD; S. Subramaniam, PhD; V. Pulijaal, PhD; S. Hoda, MD; G. Imperato; M. Jain, MD; R. Rao, MD; R. Hoda, MD; N. Narula, MD; H. Fernandes, PhD.

Congratulations and best wishes to:

Jennie and Victor Brodsky, on the birth of their little girl
Allison Nia
born August 29, 2014, 6 pounds, 10 ounces, 26” long

Jessica and Scott Misner, on the birth of their baby boy
Jonathan Daniel
born May 2, 2014, 7 pounds, 5 ounces, 22” long

Hanna and Juan Mosquera, on the birth of their little boy
Sebastian
born October 15, 2014, 6 pounds, 8 ounces, 21” long

Nicole and Joseph Panarelli, on the birth of their little boy
Joseph Francis
born August 15, 2014, 5 pounds, 5 ounces, 18 1/2” long

Rhonda Yantiss and big brother Zachary, on the birth of a new little girl
Madeleine Claire
born May 8, 2014, 8 pounds, 6 ounces, 20 1/2” long

Congratulations to our Docs!

Listed in the May 30, 2014 issue of The New York Times Magazine in New York Super Doctors®: Daniel M. Knowles, MD; Cynthia M. Magro, MD; Attilio Orazi, MD; Lora H. Ellenson, MD

Dr. Manu Jain visited the What Pho Temple with reclining Buddha in Bangkok, while attending the International Academy of Pathology in Bangkok, Thailand, to present two posters.

Dr. Surya Seshan visited Bangkok, Thailand in October 2014. She served as a member of the Program Committee and as a lecturer for the Renal Pathology sessions of the International Academy of Pathology.

Dr. Timothy Hla presented at the Lipid Mediators conference at the Karolinska Institutet, Stockholm, Sweden to honor the Nobel Prize Laureate, Bengt Samuelsson.

Dr. Timothy Hla visited the Max Planck Institute for Heart and Lung Research in Bad Nauheim, Germany, where he gave a presentation.
Welcome to our New Residents

Erika M. Hissong, MD
PGY-1
Dr. Hissong graduated in May 2014 from Indiana University School of Medicine, where she was AOA. She received her BA in Biochemistry in 2010 from Anderson University, Indiana.

Seung Ha (Anna) Nam, MD
PGY-1
Dr. Nam graduated in May 2014 from the University of Missouri-Columbia School of Medicine, where she was AOA. She received her BS in Chemistry in 2008 from Davidson College in North Carolina.

Luke C. Olson, MD
PGY-1
Dr. Olson graduated in May 2014 from the Geisel School of Medicine at Dartmouth. He received his BA in Biology in 2008 from Wesleyan University. Luke completed a Post-Sophomore Fellowship at the Dartmouth Medical Center.

Erica Syklawer, MD
Dermatopathology
Dr. Syklawer graduated in 2010 from the University of South Alabama, and then joined the AP/CP residency-training program at The University of Texas Health Science Center at Houston, where she completed her training in June 2014.

Lowell Evans Michael, MD
PhD/Dermatopathology
Dr. Michael graduated in 2010 from the MD/PhD program at The University of Michigan Medical School. He then did a transitional internship year at Memorial Sloan Kettering Cancer Center, followed by a Dermatopathology residency at The University of Alabama, where he completed his training in June 2014.

Nariman Gobara, MD
Gastrointestinal Pathology
Dr. Gobara graduated in 2005 from the Ain Shams University, Egypt. She then immigrated to the United States and from 2006 to 2008, was a Research Assistant at the College of Biomedical Sciences at Florida Atlantic University. In 2010, she joined the AP residency-training program at the North Shore-LIJ School of Medicine and completed her training in 2013. She completed a Surgical Pathology Fellowship at NYU-Presbyterian in June 2014.

Kenneth Hennrick, MD
Genitourinary Pathology
Dr. Hennrick graduated in 2010 from the Sackler School of Medicine, and then joined the AP/CP residency-training program at the University of Wisconsin, which he completed in June 2014.

Adela Cimic, MD
Gynecologic Pathology
Dr. Cimic graduated in 2004 from the University of Sarajevo, Bosnia and Herzegovina. From 2004 to 2005, she did an internship at the General Hospital, Sarajevo and then completed post-graduate work from 2005 to 2007 at the Clinical Center of the University of Sarajevo, Heart Center, where she also did her AP residency training, completing her training in 2010. She then joined the Wake Forest Baptist Medical Center as a Research Fellow from 2010 to 2011. In 2011, she became an AP resident at Wake Forest Baptist Health Center, and completed her training in June 2014.

Shannon Covey, MD
Hematopathology
Dr. Covey graduated in 2010 from the Texas A&M Health Science Center, and then joined the AP/CP residency-training program at The University of North Carolina, where she completed her training in June 2014.

William Wu, MD, PhD
Hematopathology
Dr. Wu graduated in 2008 from the MD/PhD program at SUNY, Syracuse and stayed on at SUNY as a Postdoctoral Associate in the Department of Microbiology and Immunology. In 2009, he joined the AP/CP residency-training program at the University of California, Irvine completing the program in 2013. He completed his training as a Surgical Pathology Fellow at Memorial Sloan Kettering Cancer Center in June 2014.

Yi Ding, MD, PhD
Molecular Genetics
Dr. Ding graduated with her MD degree in 1997 from Beijing Medical University, China. From 1999 to 2001, she was a Clinical Research Associate at the National Center for AIDS Prevention & Control in Beijing. She also held the title of Research Scholar at the Aaron Diamond AIDS Research Center at Rockefeller University during that time. From 2002 to 2008, she was a Graduate Assistant at the Skirball Institute of Biomolecular Medicine at the NYU School of Medicine, where she received her PhD and was subsequently promoted to Research Scientist. She left to join the AP/CP residency-training program at NYU Langone Medical Center, and completed her training in June 2014.

Welcome to our New Fellows

Paula Ginter, MD
Breast Pathology
Dr. Ginter graduated in 2010 from the Chicago Medical School. She joined our AP/CP residency-training program in July 2010 and served as the Chief Resident for the year 2013-2014.

Michael Chaumont, MD
Cytopathology
Dr. Chaumont graduated in 2007 from Drexel University College of Medicine. He did a general surgery residency from 2007 to 2009 at Monmouth Medical Center, New Jersey and switched in 2010 to do AP/CP residency training at The Warren Alpert School of Medicine/Rhode Island Hospital, where he completed his training in June 2014.

Erica Syklawer, MD
Dermatopathology
Dr. Syklawer graduated in 2010 from the University of South Alabama, and then joined the AP/CP residency-training program at The University of Texas Health Science Center at Houston, where she completed her training in June 2014.

Lowell Evans Michael, MD
PhD/Dermatopathology
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Nariman Gobara, MD
Gastrointestinal Pathology
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Kenneth Hennrick, MD
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Dr. Hennrick graduated in 2010 from the Sackler School of Medicine, and then joined the AP/CP residency-training program at the University of Wisconsin, which he completed in June 2014.

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Gynecologic Pathology
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Shannon Covey, MD
Hematopathology
Dr. Covey graduated in 2010 from the Texas A&M Health Science Center, and then joined the AP/CP residency-training program at The University of North Carolina, where she completed her training in June 2014.
Faculty Publications in 2014


6th Annual Papanicolaou Tutorial on Updated Diagnostic Cytology

**July 23-24, 2015**
Weill Auditorium and Archbold Commons New York, New York

Course Director: Rana S. Hoda, MD

**Targeted Audience**
Cytopathologists, pathologists, residents and cytotechnologists

**Course Goals and Objectives**
This 2-day program will consist of lectures, case presentations and discussions designed to provide pathologists with a special interest in cytopathology, pathologists-in-training and cytotechnologists with an in-depth discussion of current criteria and changing concepts in Diagnostic Cytology. Diagnostic cytopathology performs a vital role in the evaluation and treatment of patients with non-neoplastic and neoplastic disease. This course is designed to provide updated practical, problem-solving knowledge and information for cytopathologists, pathologists, residents and cytotechnologists.

**Reserve early. Space is limited!**
CMF Information/Registration: Ms. Jessica Misner (212) 746-6464 • jep2018@med.cornell.edu

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7th Annual Symposium Tutorial on Pathology of the GI Tract, Pancreas and Liver

**November 9-13, 2015**
Waist Disney World Swan and Dolphin Resort Orlando, Florida

Course Director: Rhonda K. Yantiss, MD

**Targeted Audience**
General surgical pathologists and pathologists-in-training

**Course Goals and Objectives**
This course is designed to update physicians on advances in our understanding of gastrointestinal diseases, address problems faced during the pathologic evaluation of tissue samples, and provide pathologists with a framework for interpretation of both histologic patterns of disease and results of molecular analyses. The program will consist of lectures, case presentations and discussions designed to provide attendees with an in-depth discussion of diagnostic problems that arise when evaluating materials obtained from the gastrointestinal tract, pancreas, and liver, and inform them regarding the application and interpretation of immunohistochemical and molecular studies in the diagnosis and classification of these diseases.

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Newly Awarded Grants in Pathology

- **National Cancer Institute (NIH) Research Grant**
  - **Title:** Cell Cycle Reprogramming for Therapeutic Targeting of BTK in Lymphoma
  - Principal Investigator: Selina Chen-Kiang, PhD
  - Period of Support: 08/05/14-07/31/19
  - Total Direct Costs: $1,037,500

- **National Cancer Institute (NIH) Research Grant**
  - **Title:** Cell cycle sensitzation to PI3K therapy in lymphoma
  - Principal Investigator: Selina Chen-Kiang, PhD
  - Period of Support: 11/01/2014-10/31/2017
  - Total Direct Costs: $540,054

- **Goldhirsh-Yellin Foundation Research Grant**
  - **Title:** Molecular Characterization of Metastatic Neuroendocrine Tumors of the Gastrointestinal Tract
  - Principal Investigator: Thomas J. Fahey III
  - Period of Support: 02/01/14-01/31/17
  - Total Direct Costs: $197,088

- **Fondation Leducq Research Grant**
  - **Title:** Sphingosine 1-phosphate in neurovascular biology and disease (SphingoNet)
  - Principal Investigator: Timothy Hla, PhD
  - Period of Support: 10/01/14-09/30/19
  - Total Direct Costs: $1,658,100

- **Seed Grants for Collaborations Between Cornell University-ITHACA and Weill Cornell Medical College Research Grant**
  - **Title:** Redox-linked mechanisms of HuR protein regulation in angiogenesis
  - Principal Investigator: Timothy Hla, PhD
  - Period of Support: 07/01/2014-06/30/2015
  - Total Direct Costs: $23,746

- **National Institute on Aging (NIH) Research Grant**
  - **Title:** The Mechanisms Underlying How Oxidative Stress Influences Neural Stem Cell Fate
  - Principal Investigator: Jhiye Paik, PhD
  - Period of Support: 09/15/14-05/31/19
  - Total Direct Costs: $1,025,000

- **Prostate Cancer Foundation Janssen Special Challenge Award**
  - **Title:** Targeting and mechanistic insights underlying N-Myc driven Neuroendocrine Prostate Cancer
  - Principal Investigator: David Rickman, PhD
  - (Co-PI Mark A. Rubin, MD)
  - Period of Support: 04/04/14-04/04/16
  - Total Direct Costs: $500,000

- **National Cancer Institute (NIH) Research Grant**
  - **Title:** Mechanistic Insights Underlying ERG-induced Taxane Resistance in Castration-Resistance in Castration-Resistant Prostate Cancer
  - Principal Investigator: David Rickman, PhD
  - Period of Support: 04/11/14-02/28/19
  - Total Direct Costs: $1,265,135

- **National Cancer Institute (NIH) Research Grant**
  - **Title:** Precision Medicine Approach to Prostate Cancer Active Surveillance
  - Principal Investigator: Mark A. Rubin, MD
  - Period of Support: 08/01/2014-07/31/2019
  - Total Direct Costs: $2,754,075

- **NYSTAR Designated Center for Advanced Technology CAT Grant**
  - **Title:** Topical Therapeutics for Skin Diseases associated with DNA Damage
  - Principal Investigator: Pengbo Zhou, PhD
  - Period of Support: 07/01/2014-06/30/2015
  - Total Direct Costs: $49,500

- **National Center for Advancing Translational Sciences Seed Grant**
  - **Title:** Attenuation of the Oncogenic CUL4A Ubiquitin Ligase by Small-Molecule Inhibitors
  - Principal Investigator: Pengbo Zhou, PhD
  - Period of Support: 09/01/2014-05/31/2015
  - Total Direct Costs: $10,000

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**Tutorial on Neoplastic Hematopathology**

**January 25-29, 2016**
The Westin
New Orleans, Louisiana

Course Director: Daniel M. Knowles, MD
Associate Course Director: Attilio Orazi, MD

**Targeted Audience**
Pathologists, pathologists-in-training and medical oncologists/hematologists

**Course Goals and Objectives**
This 5-day course is designed to update physicians on the latest advances in Neoplastic Hematopathology. The program will consist of lectures, case presentations and discussions designed to provide pathologists, pathologists-in-training and medical oncologists/hematologists with an in-depth discussion of diagnostic problems that arise in neoplastic hematopathology. In addition to discussions of recent advances in the morphologic classification of hematopoietic tumors, the application and interpretation of immunological and cytochemical studies and molecular techniques in the diagnosis and classification of these diseases will be presented.

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If you have any comments or questions, please contact: Managing Editor, Gina L. Imperato • tel: (212) 746-6464 • e-mail: glmpera@med.cornell.edu