



## Invented at Drexel: Startup Creates Novel Therapy For Drug-Resistant Cancer

Prostate cancer is the most common non-skin cancer among American men, according to the Centers for Disease Control and Prevention. Though many patients beat the disease, once the cancer has metastasized, the five-year survival rate is about 29 percent (American Cancer Society). In 2016, more than 26,000 American men died from prostate cancer; the vast majority of them had developed resistance to standard drug treatments.

Prostate cancer cells are dependent on a protein called the androgen receptor, the primary driver of tumor growth and disease progression. Since androgens such as testosterone are the fuel that enables the androgen receptor to drive prostate cancer, the standard therapies involve depriving the cancer cells of androgens and preventing androgens from binding the androgen receptor using drugs designed to directly bind to and block the protein.



Assistant Professor Felix Kim, PhD, scientific founder of Context Therapeutics

Currently, there are few drugs used to treat advanced prostate cancer in men, and they ultimately provide limited benefits to the patient. Though the drugs are effective for a time, eventually the androgen receptors in prostate tumors reactivate and develop drug resistance.

"Prostate cancer is a highly adaptive and constantly evolving disease. Ironically, treatment resistance is driven, in part, by the androgen receptor-targeted drugs that are designed specifically to suppress the disease," says Felix Kim, PhD, assistant professor in the College of Medicine and scientific founder of Context Therapeu-

tics, the biotech startup spun out of his academic lab at Drexel.

While conducting neuropharmacology research at Memorial Sloan Kettering Cancer Center in 2005, Kim began looking at a unique protein called Sigma1 (also known as the sigma-1 receptor), which was identified more than four decades ago as a potential target for treating pain. "I became interested in Sigma1 through a confluence of circumstances: had I not been in a neuropharmacology lab at the time, I likely would not have known of Sigma1; and if I had not been at a cancer research center, I likely would not have thought to investigate Sigma1 in the context of cancer," he says.

• continued on page 4

WINTER 2018

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The Kimmel Center set the stage for the White Coat Ceremony



Annual Discovery Day celebrated biomedical and clinical research



Alumni keep showing the world what our graduates can do

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# pulse

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# Key Clinical Campuses Have a New Owner

As of midnight on January 11, the College of Medicine's affiliated campuses in Philadelphia, Hahnemann University Hospital and St. Christopher's Hospital for Children, have a new owner, American Academic Health System.

American Academic is an affiliate of Paladin Healthcare, a national health care management company with a track record of building



Daniel V. Schidlow, MD

strong health care delivery networks in urban and suburban areas, including some of the nation's most diverse communities facing health care challenges. Hahnemann and St. Christopher's thus become part of a health care group that has been successfully managing the venerable 145-year-old Howard University Hospital in Washington, D.C., and owns and manages four general acute-care hospitals in Southern California.

Hahnemann and St. Christopher's are significant resources for the College of Medicine. We began conversations with American Academic Health System when the definitive sale agreement between that organization and Tenet Healthcare was signed last September.

Our ongoing dialogue includes

strategies to enhance our educational mission, to create an environment of cooperation, and to mutually pursue best practices.

American Academic Health System's leadership has expressed the desire to preserve and enhance the hospitals' clinical and teaching programs, and to collaborate closely with the College of Medicine. I'm especially gratified that in addition to their commitment to academic medicine, American Academic shares our goal of improving health outcomes in the community.

When the sale was announced, Joel Freedman, American Academic's founder and CEO, said, "Philadelphia is among the most renowned health care centers in the United States, and we are privileged to be part of it."

We share that sentiment and look forward, with your input, to continuing to build a future that benefits everyone — students, faculty, staff, patients and community.

**American Academic shares our goal of improving health outcomes in the community.**

Daniel V. Schidlow, MD  
Walter H. and Leonore Annenberg Dean  
Senior Vice President of Medical Affairs

## Cultural Sensitivity

Communities as a whole, including our Drexel family, could benefit from talking about cultural sensitivity. As residents, we work in diverse, inner city and suburban populations. We need to have these conversations and not shy from talking about bias, racism and cultural sensitivity. We need to see the patient as a whole when we evaluate and treat them.

During my second year, a psychiatry fellow invited me to work on what would become a cultural competence symposium for psychiatry residents. We discuss cultural sensitivity in class, but he saw a need to take the conversation further. As residents and then clinicians, we need to be especially mindful of the diverse cultures we continually encounter. After the first symposium, I recognized that we needed to keep the conversation going, and that prompted the next Cultural Symposium, which was open to attending physicians, nurses and social workers, as well as psychiatry residents and fellows.

The symposium speakers discussed mental health topics in relation to Middle Eastern countries, Asian populations and Russian culture, and the family in the clinical setting. For example, in Russia, there is a massive stigma about mental health problems. We need to be mindful that a patient from that culture may withhold information. The family says, "This is what's going on. We'll talk it out among ourselves." That insight was helpful. In another culture, individuals may value the advice of a spiritual adviser over that of a psychiatrist. As a professional, how does one reconcile that without alienating the patient?

### Somatization

We discussed somatization — for instance, the patient presents with gastrointestinal complaints instead of saying "I'm anxious." We also introduced the idea of culture-bound syndromes, a disorder specific to a particular culture that does not appear to have biochemical origin or other objective signs. "Evil eye" is an example.

For many people, it is taboo to say, "I have a psychiatrist. I have a therapist." You know that's already a hurdle to people seeking care. When they finally do come to us, there's going to be an individual and family cultural

component. Many times, their family comes with the patient to the ER. The family as a whole is trying to say, "Is this normal stress, or is it something that needs to have medical intervention or medication?"

When you introduce the concept of needing antipsychotics to someone — whatever their background — that can be challenging. In the clinical setting, we're getting a better grasp on this. One of the symposium's goals was to introduce different ways people experience their mental health. When I started as a first-year, I may have thought, "This is the medication. This will help resolve your anxiety." But

now, I try to familiarize myself with the other person's culture. Not everyone coming to us will be comfortable swallowing a little white pill that acts on their brain.

Within a culture itself, many times people seek guidance from a spiritual adviser or from a group that feels more comfortable to them than the medical community. When that happens,

my thinking is, "This is what we, as professionals, have available. This other guidance sounds important to you, something that gives you peace and reassurance. So teach me a little bit about that." Then, as a clinician, I continue to do my research on their illness. What I'm finding is these conversations give us the language and the tools to better serve the patient. How

Individuals may value the advice of a spiritual adviser over that of a psychiatrist.

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Mikal Hicks-Black, DO (in a photo from last summer) received the Educational Outreach Program award of the American Academy of Child & Adolescent Psychiatry to attend the organization's annual meeting and conference this past fall in Washington, D.C.



# Novel Cancer Therapy

• continued from the cover

In late 2010, Kim brought his research program to Drexel. He and his team found that Sigma1 is enriched and abnormally expressed in prostate tumors and discovered new compounds that suppressed prostate tumor growth by inhibiting Sigma1 in laboratory experimental models. The data generated by his team over several years made a compelling argument that Sigma1 could be a novel drug target for treating prostate cancer. In 2015, he co-founded Context Therapeutics with a former venture capitalist, Martin Lehr, to finance this drug discovery program and to develop these promising compounds into a new therapeutic agent to treat patients with refractory prostate cancers.

As described in their February 2017 *Cancer Research* publication "Sigma1 Targeting to Suppress Aberrant Androgen Receptor Signaling in Prostate Cancer," Kim and his colleagues have developed a new series of compounds that target Sigma1 to block the activity of the androgen receptor and essentially eliminate it from prostate cancer cells. By targeting Sigma1, rather than the androgen receptor directly, the researchers were able to knock out the receptor's support system. Importantly, this approach was effective in suppressing prostate cancer cells that had become resistant to standard-of-care drugs. Kim also shared his findings and provided a review of the Sigma field in the recently released book *Sigma Proteins: Evolution of the Concept of Sigma Receptors* (Springer Press, 2017), of which he is co-editor.

This approach was effective in suppressing prostate cancer cells that had become resistant to standard-of-care drugs.

This discovery paves the way for Context Therapeutics to develop a new class of drugs that will target Sigma1 and stop the progression of tumors in men with lethal prostate cancers that are resistant to current treatments. Through partnerships with scientists and clinicians at the Sidney Kimmel Cancer Center at Thomas Jefferson University, Fred Hutchinson Cancer Research Center, University of Washington, Memorial Sloan Kettering Cancer Center and the Centre Léon Bérard in France, Context has built a network of leading prostate cancer experts helping to advance their compound to the clinic.

Context Therapeutics is exploring other applications for the Sigma1 technology, which Kim describes as a platform technology. In August, the company announced that it was initiating collaboration with three research partners — Cedars-Sinai Medical Center, Fred Hutchinson Cancer Research Center and Fondation Synergie Lyon Cancer — to determine the role of Sigma1 in other disease models and to evaluate the activity of Context's proprietary Sigma1 modulators in state-of-the-art prostate cancer patient-derived tumor models and tumor biopsy explant models. (See [fiercebiotech.com/biotech/leading-transatlantic-cancer-teams-form-sigma1-pact](http://fiercebiotech.com/biotech/leading-transatlantic-cancer-teams-form-sigma1-pact).)

"This project is a cornerstone of a mechanism-focused cancer pharmacology research program in which we will precisely define how the Sigma1 system works in tumors in order to effectively exploit it as a drug target to treat a number of cancers," Kim says. "We are also investigating other potential uses for our technology. We think our Sigma platform could be used to discover and develop therapeutic agents for pain as well as certain inflammatory and neurodegenerative diseases."

## Destination Excellence

• continued from page 3

do we approach someone about medication? How do we explain with lay terminology versus medical jargon?

### Examining Preconceptions

Another goal of the Cultural Symposium was to stimulate internal reflection. What biases or misconceptions do we carry with us? We find ourselves in different settings: Hahnemann, Friends Hospital, Abington. In each of those settings, we have to be mindful of how we perceive the patient population. It has a lot to do with culture. I'm an African-American woman. My experience sitting in front of an Asian woman — even though we're both women — is going to be different from hers. I need to acknowledge any

preconceptions on my end. What are my assumptions or thoughts about this patient's behavior?

Sometimes, unfortunately, we may be quick to diagnose someone based on misconceptions. If we find ourselves making remarks or sharing frustrations about a certain patient or even a certain demographic, then we need to ask, What about that patient or that culture makes me uncomfortable?

The more we're able to have open conversations and see the different backgrounds people bring to the table, the more we grow as clinicians. I feel this has made me a better physician and certainly a better psychiatrist and mental health worker. No one patient fits the DSM-V.

— Mikal Hicks-Black, DO,  
General Adult Psychiatry Residency '17  
Fellow, Child & Adolescent Psychiatry

# Opening Ceremony: Doctors-to-Be Don White Coats

The College of Medicine welcomed 260 new medical students at the White Coat Ceremony for the Class of 2021 on August 11, 2017. Held this year for the first time at the Kimmel Center, the event will make half of a neat pair of bookends, assuming Commencement 2021 takes place at the Kimmel, following tradition.

Michael A. Bohrn, MD, HU '98, associate dean for the regional medical campus at WellSpan York Hospital

and director of medical education at York, was the keynote speaker. Dean Daniel V. Schidlow, MD, composed a fitting piece of music, which he performed with members of the student a cappella group, Doctor's Note.

Following the ceremony, Associate Dean Ana Núñez, MD, hosted the Diversity New Student Reception for students and their families on behalf of the Office of Diversity, Equity & Inclusion.



From front: Tyler Cappello, Michael Caplan, Joseph Capalbo, Alyssa Calder, Noe Cabello-Rivera, Franklin Burg, Andre Bshara, Madeleine Bruce, Ashlyn Brown



Cassandra Mitchell cloaked by Bruce Hirsch, PhD



Andrew Noah and his parents, Drs. Jane Salkoff Noah and Ralph Noah, both MCP '90



Timothy Chong and brother Christopher Chong, MD '13



Keynote speaker Dr. Bohrn



Andie Belkoff, Kaytie Innamorati, Sonja Eagle, Fallon Bushee, Dean Schidlow, Joseph Horowitz, Adam Elwood, Daniel Buhalo, Daniel Golden



The Hippocratic Oath: Stephanie Algenio-Anciro, Daniel Albrecht, Estefania Alba-Rodriguez, Blake Adnani, Mary Abramczuk, Jordy Salcedo Giraldo



At the Diversity New Student Reception: (back) Kingsley Ozongwu, Theophilus Abah, Grace Hernandez, Leanna Brooks, Sabrina Billings, Gabriella Forman, Bettie Yeboah, Alfredo Munoz, Noe Cabello-Rivera, Rita Akumuo; (front) Joanna Sanchez, Temilolaoluwa Daramola, Jacqueline Koomson, Anne Garcia, Estefania Alba-Rodriguez, Dominique Jones, Ayomide Igun, Kwesi Boateng



## Red Ribbon Award Honors Memory of Dr. Ken George

The late Kenneth George, PharmD, clinical pharmacist at the Partnership Comprehensive Care Practice, was honored posthumously for “outstanding community leadership” by the Community Advisory Board to the Penn Center for AIDS Research (CFAR). The award was presented at the 14th Annual Red Ribbon Award Ceremony, held on World AIDS Day, December 1, 2017.

George, who served at the Partnership for 19 years treating individuals with HIV/AIDS and, more recently, hepatitis C, was known for his deep compassion for patients. He joined the practice in 1998 after nearly a decade with Graduate Health System. Over the years, he taught at University of the Sciences, where he earned his bachelor’s and doctoral degrees; at Jefferson; and at Drexel. He also lectured around the country and published numerous papers on the treatment of AIDS. He was a member of the advisory board of the Pennsylvania AIDS Drug Assistance Program, which serves low- to moderate-income individuals who are uninsured or underinsured. He passed away last April 28.



**The Red Ribbon Award to Ken George was accepted by his husband, William K. Fisher (second from left), and Zsofi Szep, MD, medical director of the Partnership Comprehensive Care Practice. Also pictured are (l-r) Andre H. Ford and Rev. Wesley Proctor of CFAR’s Community Advisory Board.**

## Medical Student Wins Coveted Career Development Award

Max Brodsky, a fourth-year medical student at the College of Medicine, was recently selected by the American Society of Hematology (ASH) as one of two students nationwide to receive the 2017–2018 ASH Physician-Scientist Career Development Award.

This award helps medical students gain experience in hematology research and learn more about the specialty by immersing themselves in a yearlong laboratory, translational or clinical investigation under the mentorship of an ASH member. The American Society of Hematology is the world’s largest professional society of hematologists dedicated to furthering the understanding, diagnosis, treatment and prevention of disorders affecting the blood.

“My goal is to incorporate what I learn from the lab, lectures and my mentor into my clinical practice,” said Brodsky. “I hope to one day become a physician-scientist in hematology who translates discoveries in the lab to the care of my patients.”

Brodsky began working in August with Ross L. Levine, MD, a physician-scientist at Memorial Sloan

Kettering Cancer Center, whose lab focuses on the investigation of the genetic basis of hematopoietic malignancies. For his research project, Brodsky will examine mechanisms of resistance to the drug ruxolitinib in JAK2/ASXL1 double-mutant myeloproliferative neoplasms. He will use an animal model to study how subjects with different mutations in the genes JAK2 and ASXL1 respond to different drug therapies, namely ruxolitinib.

Brodsky will receive a \$42,000 stipend, which will help to cover supplies, insurance, educational expenses, salary and meeting attendance. An MD student at Oregon Health & Science University was also selected for this award.

During his time at Drexel, Brodsky has devoted significant time to research. Over the past year, he has published studies on the risk factors for 30-day readmission in adults with sickle cell disease, as well as silent cerebral infarcts and cerebral aneurysms in adults with sickle cell anemia. He will return to Drexel in 2018 to complete his clinical rotations and graduate with the Class of 2019.



## Discovery Day Shows Off Original Research

With topics ranging from HIV/AIDS to spinal cord injury and neuroengineering, Discovery Day 2017 showcased more than 380 original research projects at the Pennsylvania Convention Center on October 12.

The research represented the work of medical students, students in the College of Medicine's Graduate School of Biomedical Sciences and Professional Studies, residents and fellows, and postdoctoral trainees. After a full morning of reviewing posters, judges chose award winners in multiple categories. Platform presentations were made in the afternoon.

Teresa K. Woodruff, PhD, an internationally recognized expert in ovarian biology, gave the keynote address, "Oncofertility: From Bench to Bedside to Babies."

Woodruff is the Thomas J. Watkins Professor of Obstetrics & Gynecology and chief of the Division of Reproductive Science in Medicine at the Feinberg School of Medicine at Northwestern University. She is also a professor of molecular biosciences and of biomedical engineering at Northwestern. She now heads the Oncofertility Consortium, an interdisciplinary team of biomedical and social scientist experts from across the country.



Some of the award winners (l-r): Frank Bearoff, Eugene Mironets, Andrew Matamoros, Bo Xing, Jasmine Peake, Lindsay Festa, Kelly Donovan, Sudipta Das, Zachary Bacigalupa, Ellen Gingrich and Courtney Fesko.

### Awards

Place . . . . . Winner (Mentor)  
HM = Honorable Mention

#### Outstanding Medical Student Poster

- 1st . . . . . Konstantin Budagyan (Malay Haldar, MD, PhD)
- 2nd . . . . . Iris Xu (Michael Weingarten, MD)
- 3rd . . . . . Jonathan Hauptfeld (Kenneth Rodgers, PhD)
- HM (tie) . . Orchideh Abar (Norman Johanson, MD);  
Benjamin Yeager (Christopher Gasink, MD)

#### Outstanding Clinical Resident/Fellow Case Study Poster

- 1st . . . . . Niveditha Thangaraj (Alexander Trebelev, MD)
- 2nd . . . . . Omar Sheriff (Michael Stephen, MD)
- 3rd . . . . . William Hawkins (Thomas Nordone, DMD)

#### Outstanding Clinical Resident/Fellow Research Poster

- 1st . . . . . Yehuda Kerbel (Mary Mulcahey, MD)
- 2nd . . . . . Daria Waite (Theodore Corbin, MD)
- 3rd . . . . . Rina Allawh (Herbert Allen, MD)

#### Outstanding Senior Graduate Student Poster

- 1st . . . . . Kelly Donovan (Jane Clifford, PhD)
- 2nd . . . . . Jasmine Peake (Eishi Noguchi, PhD)
- 3rd . . . . . Eugene Mironets (Veronica Tom, PhD)

#### Outstanding Junior Graduate Student Poster

- 1st . . . . . Ashley Karnay (Felice Elefant, PhD)
- 2nd . . . . . Courtney Fesko (Joris Beld, PhD)
- 3rd . . . . . Michael Owens (Srinivas Somarowthu, PhD)

#### Outstanding Postdoctoral Fellow Poster

- 1st . . . . . Bo Xing, PhD (Wen-Jun Gao, PhD)
- 2nd (tie) . . Frank Bearoff, PhD (Elizabeth Blankenhorn, PhD);  
Sudipta Das, PhD (Akhil B. Vaidya, PhD)

#### Outstanding Undergraduate Poster

- 1st . . . . . Ayush Parikh (Seena Ajit, PhD)
- 2nd . . . . . Ann Haffl (Irwin Chaiken, PhD)
- HM (tie) . . Nicolas Fox (Tara Davis, PhD);  
Sneha Kamarajugadda (Huijuan Hu, PhD)

#### Outstanding High School Poster

- 1st . . . . . Milan Mahesh (Koroush Khalighi, MD)

#### Outstanding Technician Poster

- 1st . . . . . Ellen Gingrich (Denise Garcia, PhD)

#### Barry Waterhouse Outstanding Platform Presentation

- 1st . . . . . Lindsay Festa (Olimpia Meucci, MD, PhD)
- 2nd . . . . . Zachary Bacigalupa (Mauricio Reginato, PhD)
- HM . . . . . Andrew Matamoros (Peter Baas, PhD)

## Woman One Recognizes Gloria Twine Chisum, PhD

The Institute for Women's Health and Leadership at the College of Medicine has named Gloria Twine Chisum, PhD, as Woman One 2018. She will be honored with the 16th Annual Woman One Award at a special ceremony and reception at The Rittenhouse on Monday, April 30.

A trailblazing scientist, Chisum graduated from Howard University and earned her master's and doctoral degrees in psychology from the University of Pennsylvania. During her illustrious research career, Chisum headed the Vision Laboratory at the U.S. Naval Air Development Center and became a world-renowned authority on visual problems associated with the operation



of high-performance aircraft.

She has also been an active leader in civic and professional organizations, serving on the boards of the William Penn Foundation, Pew Charitable Trusts, the Free Library of Philadelphia, the Arthritis Foundation, the Philadelphia Orchestra and the National Constitution Center. She is an emerita trustee and former vice chair of the Board of Trustees of the University of Pennsylvania.

Funds raised from the annual Woman One Award event support medical school scholarships for talented women from groups underrepresented in medicine. Since the program began in 2003, 22 Woman One scholars have graduated from Drexel College of Medicine and are working as physicians across the United States, and nine scholars are currently Drexel medical students.

Contact Janine Barber at 215.991.8194 or jkb48@drexel.edu to register for the Woman One event or to learn more. Website: [drexel.edu/medicine/womanone](http://drexel.edu/medicine/womanone)

## Pharmacology Postdoc Named a Wunderkind by STAT News

STAT News, a Boston-based national publication focused on science and health news, has named a Drexel University College of Medicine postdoc one of the "brightest young minds in life science."

Halley Oyer, PhD, was chosen from among hundreds of nominees to become a 2017 STAT Wunderkind. She is a postdoctoral researcher in the laboratory of Felix Kim, PhD (see cover story). Oyer received her bachelor's degree in biology from Drexel, and her doctorate from Princeton. The Wunderkind award honors young scientists and doctors who are "blazing new trails in research and public health at the start of what promise to be impressive careers." (Visit [statnews.com/wunderkinds/](http://statnews.com/wunderkinds/) to read more about Oyer and see the company she keeps.)



## College of Medicine Receives NIH Grant for \$3.8 Million

The National Institutes of Health recently awarded a U19 grant to Drexel University for \$3.8 million. The grant will support the investigation of hepatitis B vaccine response in co-infection with parasites. This research is led by Principal Investigator Elias El Haddad, PhD,



a professor in the Department of Medicine's Division of Infectious Diseases & HIV Medicine.

El Haddad's program, entitled "Integrative Omics of HepB Vaccine Response in Co-Infection with Parasites," will test the hypothesis that alterations in host innate and adaptive immune cells that are triggered by parasitic infections

lead to an impaired immune response to vaccines, specifically hepatitis B vaccine. The research requires a comprehensive exploration of the mechanisms triggered by parasitic infections on vaccine-induced immunity, which may point to potential interventions that enhance immunological response to vaccines in the developing world. The

objective is to develop immune models that characterize host response to hepatitis B vaccination at varying degrees of infection.

The U19 grant is a cooperative agreement program that leverages resources from several groups to achieve a specific research objective. Other institutions that are part of this consortium include Case Western University, St. Jude Hospital, Washington University, and Uganda Virus Research Institute.

According to El Haddad, "The U19 is special since it is part of a bigger consortium called the Human Immunology Program Consortium (HIPC). There's been only a few grants given in the past five or six years as part of this HIPC, and we are lucky that Drexel is leading one program."

El Haddad is an immunologist and cell biologist by training. His research sits at the interface of four disciplines: human immunology, systems biology, infectious disease pathogenesis and vaccinology. His research also emphasizes examining immune responses in special populations, such as the elderly, and is aimed at developing efficacious vaccines to improve immune responses and reduce the burdens of many infectious diseases in these populations.



## Dean Honored During Hispanic Heritage Month

Daniel V. Schidlow, MD, Walter H. and Leonore Annenberg Dean and senior vice president of medical affairs, was honored by *Al Día* News during Hispanic Heritage Month as an archetype of Hispanic heritage. Schidlow, who was born and raised in Chile, was featured in the cover story of *Al Día's* weekly (October 11-18, 2017): "Daniel Schidlow: Healing With the Immigrant Spirit." The article, available online, discusses his family history, his education and professional life; the asset of his Hispanic background; and his thoughts on immigration: [aldianews.com/articles/leadership/daniel-schidlow-healing-immigrant-spirit/50226/](http://aldianews.com/articles/leadership/daniel-schidlow-healing-immigrant-spirit/50226/) [correction to article: the Dean has three, not six, children].



## Violence Intervention Program Lauded

Drexel's Healing Hurt People program received a national award from the Office for Victims of Crime for its work toward making victims of violent crime less likely to be injured again.

Ted Corbin, MD, associate professor of emergency medicine and associate professor at the Dornsife School of Public Health, and John Rich, MD, professor at the Dornsife School of Public Health, accepted the Award for Professional Innovation in Victim Services in a ceremony in Washington, D.C., during National Crime Victims' Rights Week. Corbin serves as the medical director of Healing Hurt People, and Rich is the director of Drexel's Center for Nonviolence and Social Justice, which houses the program.

Healing Hurt People was founded by Corbin and Rich in 2007 at Hahnemann University Hospital. Since then, it has expanded to five hospitals across Philadelphia, as well as to programs in Chicago and Portland, Oregon. During that time, the program has served more than 1,800 young people.

Re-injury — and retaliation for an injury — after a person suffers violence is a particular problem for individuals in some areas that routinely experience cyclical violence. As a result, Healing Hurt People takes an interdisciplinary intervention approach to those who have suffered a traumatic, violent injury. "The program is designed to

engage a young person at the time of their injury when we know they're at the greatest risk for re-injury and retaliation but, most especially, the symptoms of trauma," Rich says.

Members of the Healing Hurt People team seek out people between the ages of 8 and 30 who come into the emergency department with traumatic injuries. This is "the golden hour" for intervention, the time when victims may decide whether to change their lives to avoid similar injuries — possibly death — in the future, or to retaliate, contributing to the cycle of violence that brought them there.

Most emergency departments are equipped only to handle the victim's immediate needs. Healing Hurt People looks at the mental health consequences of violence and strives to close the gaps in care and help young people plug into supports. Staff members serve as navigators for the client to various support services, accompanying them to appointments and providing mentoring.

"Our patients are really traumatized," Corbin says. "We see their symptoms do decrease when they interact with our community intervention specialists and partake in some of the program activities."

And through that work, the widening program continues to chip away at cyclical violence.



Members of the Healing Hurt People team, including Ted Corbin, MD (fifth from the right).

## Going the Distance — Med School or Ultramarathon

After years of running marathons, fourth-year medical student Hong De Sa joined the elite among distance runners when she ran a 102.2-mile course in 22 hours and 59 minutes. She finished fourth among women in the Burning River 100-mile trail race in Cuyahoga Valley National Park in Ohio, earning a Top 5 plaque and a golden belt buckle for finishing in less than 24 hours.

The race started at 4 a.m., and De Sa finished at 3 a.m. the next day. “I ran throughout the night on pretty technical trails,” she says. “I’m very proud of this race because I trained for it during my surgery rotation, Step 2 study period and ICU subinternship, and I made sure that I made it to work the next day even though I was struggling to walk!”

To train for the race, De Sa would run 20 miles on Saturday, followed by 30 miles on Sunday. (Ultra runners she had consulted agreed that any run longer than 32 miles is too long for quick recovery.)

“I like endurance running so much because I feel like I can push through long periods of time when I’m in pain, but I’m not naturally fast,” says De Sa. “If I were to try to do an 800-meter, I would be smoked by normal runners. I can’t run that fast. But I’ll beat you in the long run.”

This was only De Sa’s second ultramarathon. Her first



was just 50 miles. “Your body can always take more than you think,” she says. “The last 15 miles of the race, I was miserable. I didn’t want to run anymore, but when I saw the finish line 100 yards away, I sprinted. I was totally capable of running. You just have to tell yourself that you can do something.”

The same attitude applies to medical school, De Sa says, which is why the day after she finished a race that would give most seasoned distance runners pause, she was at her new sub-internship. She didn’t want to miss the first day, and her body would have been just as sore for the rest of the week, she says.

## Drexel University Graduate Student Awards

The Graduate College of Drexel University recognizes outstanding graduate students University-wide at Graduate Student Day. For each award, the highest-performing graduate students in that category are selected from across disciplines, so that several colleges are represented. Then the Graduate College Award winners are chosen from among the college-level winners. Several students in the College of Medicine’s Graduate School of Biomedical Sciences and Professional Studies were honored in 2017.

### Outstanding Dissertation

Presented to doctoral students who have written original, innovative dissertations that reflect great research and have

been or are likely to be disseminated widely, having significant impact on the field and society: Ananda Nandakumar Rao, PhD Neuroscience ’17, an awardee at the college level, won an honorable mention at the University level.

### Outstanding Promise

Presented to graduate students who are deemed to exhibit great promise for regional, national or societal impact, and accordingly, for enhancing Drexel’s reputation, now and in the future: Brielle Ryan Ferguson, PhD Neuroscience ’17, won a college-level award.

### Research Excellence

To recognize doctoral and master’s students who have exhibited outstanding research, scholarship and creativity during their career at Drexel: Ankita Patil, MS Neuroscience ’17, was the Graduate College Award Winner for a master’s student. Patil and Zachary Brodnik, a PhD student in the Neuroscience program, were college-level winners.

### Teaching Assistant Excellence

These awards are given to outstanding Drexel teaching assistants who exhibit exemplary commitment to student learning, reflective teaching practices, leadership and a commitment to professional growth as a teacher: Andrew Matamoros, a PhD student in Molecular & Cell Biology & Genetics, was a college-level winner.





## Hands-on in High School: Philadelphia Students Take to the Lab

Gowned and gloved, Philadelphia high school students gathered for their very first gross anatomy lab on Drexel's campus last spring. Though the students came from advanced placement biology and anatomy classes, the lab, taught by medical students and Neurobiology & Anatomy instructor Theresa Connors, was eye-opening.

After the medical students reviewed previously dissected anatomy — upper limb, heart and lungs — the high-schoolers were encouraged to join their lab groups in the dissection of the abdomen. Meanwhile, another group of high school students visited a medical neuroscience lab, where the hands-on lesson, taught by Assistant Professor Michael Lane, PhD, and Lyandysha Zholudeva, a PhD candidate in his lab, focused on pathological neuroanatomy, using brains and spinal cords removed from cadavers. The young visitors also participated in sessions on holistic versus conventional medical practices, as well as discussing career options and study techniques, among other topics.



**PhD candidate Lana Zholudeva gives a lesson in neuroanatomy to high school students.**

Founded by Connors in 2003, the ongoing Medical Student for a Day program enables middle school and high school students interested in the health professions to visit the College's Queen Lane Campus to interact with medical students, graduate students and faculty. Over the years, Connors has developed relationships with teachers and administrators from all over the tri-state area, with a special focus on schools in economically depressed areas in and around Philadelphia to ensure that students representing a

cross-section of ethnic origins and family situations have access to this opportunity. The program reached more than a dozen schools in the 2016/17 academic year.

"The students are highly engaged, and it is actually difficult to get them out of the teaching labs at the end of the morning because they just want to stay and learn more," Connors says. "I receive countless letters from students stating that their DUCoM visit was the opportunity of a lifetime." Teachers tell Connors that the visits have made a lasting impact. A number of the students have gone on to apply to undergraduate school at Drexel, and years later, some medical students say they chose Drexel's College of Medicine because of their high school visit.

## Mary Dewitt Pettit Fellowship Awarded to Two Faculty

The Mary DeWitt Pettit, MD, Fellowship is awarded to young female faculty members to aid in advancing their careers. Established by the Trust Fund of the Alumnae/i Association of WMC/MCP in 1978, the fellowship honors Pettit, a former chair of the Department of Obstetrics & Gynecology, by funding research or a special project that will enable the recipient to acquire credentials to advance in academic rank. Now part of Drexel University College of Medicine, the trust fund is managed by the WMC-MCP Trust Committee.

The 2017 Awardees are **Jasjit Beausang, MD**, assistant professor, Obstetrics & Gynecology, for "Health Care Needs and Attitudes Among Immigrant Women Living With Female Genital Cutting in Philadelphia," and **Seena Ajit, PhD**, assistant professor, Pharmacology & Physiology, for "The Role of X-linked Long Non-coding RNA in Chronic Pain Disorders With Female Predominance."



**Dr. Beausang**



**Dr. Ajit**

## Lessons From the Humanities

An award-winning clinician educator, Salvatore (Sal) Mangione, MD, brought bountiful food for thought to Drexel as the 2017 Annenberg Dean Medical Humanities Visiting Scholar in October.

Mangione is known for his longstanding interests in physical diagnosis, the history of medicine and the use of the humanities to rekindle empathy. His daylong itinerary took him to three Drexel campuses to present three provocative topics. "The Archetypes of Medicine: A Job Description for the 21st Century" was his subject for Department of Medicine Grand Rounds in Center City. Then he traveled to the Queen Lane Campus, where he presented "Group Thinking, the Holocaust and the Roots of Collective Evil: Implications for Health Care." He finished the academic day on the University City Campus with a presentation and discussion under the title "Leonardo at 500: A Lesson in Creativity."

Currently an associate professor of medicine at Thomas Jefferson University, Mangione served on the faculty of Medical College of Pennsylvania from 1987 to 1998. He completed his residency in internal medicine and fellowships in both pulmonary diseases and critical care medicine, all at MCP.



## Marciano Woman in Medicine Award Applauds Ethel Weinberg, MD, HU '61

Ethel Weinberg, MD, HU '61, recently received the 2017 Phyllis Marciano, MD, Woman in Medicine Award from Drexel University College of Medicine. The award is presented annually to a female physician, scientist or staff member to recognize her leadership, teaching of students, care of patients and status as a role model for women in medicine.

Weinberg was instrumental in establishing emergency medicine as a medical specialty. She identified emergency room medicine, with its flexible hours, as an area well suited to women with children. She organized a fellowship in acute care and then won approval from the American Medical Association for the first internship in acute care medicine, a forerunner of emergency medicine. She also advocated for part-time residency training in order to make a medical career more feasible for women.

Weinberg joined the Woman's Medical College of

Pennsylvania in 1968 to establish the Retraining Program for Women Physicians, for women who had been away from practice. She later became assistant dean.

Throughout her career, Weinberg has held leadership roles on many national administrative committees and organizations, greatly influencing medical school policy. These include the National Library of Medicine's Board of Regents and the Association of American Medical Colleges. She was also a representative of the American Hospital Association to the Accreditation Council on Graduate Medical Education. In 1989, she formed the Alliance of Independent Medical Centers and remained as its chair until 1994.

In addition, Weinberg served in academic leadership roles at Temple University School of Medicine and Baystate Medical Center at the Tufts University School of Medicine.

Dr. Phyllis Marciano, namesake of the award and a 1960 Woman's Medical College graduate, was a noted pediatrician, ardent proponent of women in medicine and a former trustee of the Trust Fund of the Alumnae/Alumni Association of WMC/MCP.

## Special Delivery: All in a Day's Work



When Elsa Waldman, a nurse midwife in the Department of Obstetrics & Gynecology, started her commute home on Broad Street on November 1, she heard screams coming from another vehicle nearby. With ears attuned by years of practice, Waldman recognized the sounds as a woman crying out in labor. She could also tell there was no time to spare.

Without further ado, she jumped out of her car, found the laboring woman in a van on the other side of Broad and introduced herself to the mother-to-be and concerned family members. After borrowing a pair of latex gloves from a security guard, Waldman urged the woman to push and soon was holding the new baby. At that point, Hahnemann emergency room staff, alerted to the drama around the corner, took charge of the patients and Waldman got back into her car.

Time elapsed: 7 minutes. Poetic detail: Waldman was nine months pregnant and was coming from a surprise baby shower given by her co-workers. She delivered her second child at Hahnemann on November 24.

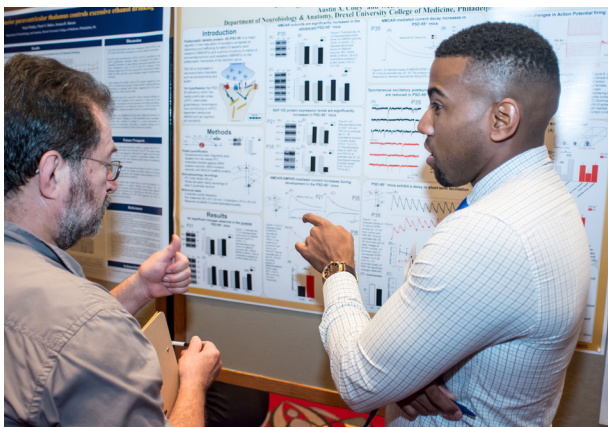


## Austin Coley Receives F99/K00 Fellowship from NIH/NINDS

Austin Coley, a PhD candidate in neuroscience in the laboratory of Wen-Jun Gao, PhD, is a recipient of the F99/K00 fellowship from the NIH/National Institute of Neurological Disorders and Stroke. Unlike other fellowships, this two-phase program funds two years of PhD study followed by four years of postdoctoral work. This is the first year NIH/NINDS offered the fellowship; Coley was one of 11 students nationwide to receive it.

Formally named the NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (D-SPAN) Award, the program is geared toward supporting mentored research training for exceptional graduate students from backgrounds underrepresented in neuroscience on their path to full-time faculty positions.

Coley received his undergraduate degree in biology from North Carolina Central University and a master's at Case Western Reserve University, where he worked to understand pH transporters in serotonin-releasing neurons. He came to Drexel in search of a robust and competitive neuroscience program that focused on student development. "Drexel was at the top of my list," he notes. He found Wen-Jun Gao's laboratory in the Department of Neurobiology & Anatomy to be a natural fit for his interests, and Gao enthusiastically accepted him into the lab due to his strong research background.



**Austin Coley (right) presents his poster to Discovery Day judge Rick Rest, PhD.**

Coley is currently studying the ways in which psychiatric disorders such as autism and schizophrenia play out in the prefrontal cortex. Specifically, he is focused on a protein called postsynaptic density 95, which has been shown to be involved in these disorders. However, the mechanism of effect of this protein is not well understood.

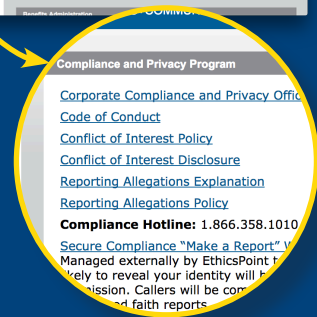
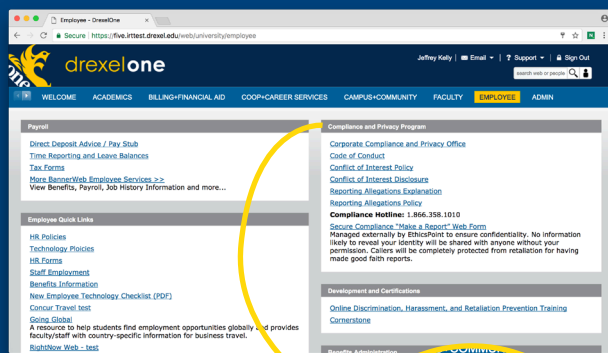
"My project aims to explore how the absence of PSD-95 affects synaptic maturation and function, as well as connectivity and function of the prefrontal cortex," he says.

"The fellowship is a great honor, but it also means I have a great responsibility as a researcher and role model for the community," Coley says. The funding that continues through his postdoctoral years will be a valuable source of support financially, but the program will also serve as a blueprint for his path to success as he transitions from student to teacher.

# Compliance & Privacy

## New Resource on DrexelOne

All the Compliance and Privacy Program links employees may need — to review the Code of Conduct or Conflict of Interest Policy, file a Conflict of Interest Disclosure, understand the Reporting Allegations policy, or file a secure "Make a Report" web form — are now prominently located, along with the Compliance Hotline number, in a new box on the Employee Tab of DrexelOne. These are valuable tools to reinforce a strong and safe culture of compliance and privacy awareness and involvement.



Our University Code of Conduct reminds us that everyone at Drexel — students, faculty, professional staff, trustees and others who work on behalf of the University — has a shared responsibility to safeguard the reputation and assets of the University. A key element of that is our duty to speak up when we believe that there might be a violation of any law, policy or standard of conduct.

In practical terms, how do you do that? For the most part, students, faculty, staff — anyone on campus — should feel comfortable consulting a supervisor, professor, department head, dean or senior administrator about a concern. But there may be times when confidentiality is critical.

That is why we maintain a hotline — accessible by phone or online — where individuals can report any issue with complete anonymity or with the assurance that their identity will be shielded. We have increased the frequency of the hotline reminder emails from quarterly to monthly. All are welcome and encouraged to use the hotline, because it is important that we identify potential problems, large or small. Only when we face such issues squarely can we resolve them and do the right thing for our community.

**Confidential hotline: Call 866.936.1010 or visit [drexel.edu/medicine/ComplianceHotline](https://drexel.edu/medicine/ComplianceHotline).**



**Seena Ajit, PhD**, assistant professor, Department of Pharmacology & Physiology, has been awarded an NIH R01 grant for her project "Exosome-mediated Signaling in Neuropathic Pain."

**Raymond Asuncion**, a student in the MLAS program, presented a poster, "Comparative Gene Expression Analysis for Identification of Appropriate Markers of Pluripotency and Germline Competency," at the 14th Transgenic Technology Meeting, held October 1–4, 2017, in Utah.

**Timothy Austin** and **Andrew Matamoros**, doctoral students in the Neuroscience graduate program, and their mentor, **Peter Baas, PhD**, Department of Neurobiology & Anatomy, published a research article in *Scientific Reports* [7(1):9675], "Nanoparticle Delivery of Fidgetin siRNA as a Microtubule-based Therapy to Augment Nerve Regeneration."



**Peter Baas, PhD**, professor, Department of Neurobiology & Anatomy, delivered a keynote speech entitled "Tau in the Axon: It's Not What You Think" at the Tissue Engineering and Regenerative Medicine International Society-Asia Pacific Meeting 2017 (TERMIS-AP 2017) in Nantong,

China, on September 23, 2017. Baas also presented a seminar entitled "Microtubule-based Therapies for Neurodegenerative Diseases" at the Chinese Academy of Sciences in Beijing, China, on September 25, 2017.



**James Barrett, PhD**, professor, Department of Neurology, and former chair of the Department of Pharmacology & Physiology, was invited by Francis Collins, director of the National Institutes of Health, and Nora Volkow, director of the National Institute on Drug Abuse, to participate in a meeting, "Development of Safe, Effective, and Non-Addictive Pain Treatments," held June 16, 2017, at the NIH Campus.



**Paul Campbell, PhD**, assistant professor, Department of Pharmacology & Physiology, has been awarded an American Cancer Society Institutional Research Grant for "Small Molecule Inhibition of Fractalkine:Cx3cr1 Chemokine Signaling in Malignant Pancreatic Ductal Cancer."



**Ted Corbin, MD, MPP**, associate professor, has been named vice chair for research in the Department of Emergency Medicine. He is the founder and medical director of Healing Hurt People (see page 9). Corbin was a semifinalist in the 2017

Be Well Philly Health Hero Challenge, presented by *Philadelphia* magazine and Independence Blue Cross.



**Garth Ehrlich, PhD**, a professor in the Departments of Microbiology & Immunology and Otolaryngology-Head & Neck Surgery, presented several keynote talks last spring and summer, including "Towards Re-potentiating Antibiotics Against Bacterial Biofilms and Persisters Through

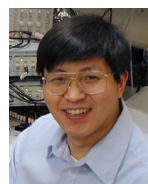
an Understanding of Bacterial Physiology" at the 8th International Conference on Emerging Zoonoses, held May 7–10, 2017, in Manhattan, Kansas; "Genomic Analysis of the Natural History of the NTHi in situ via a Population-level Whole Genome Sequencing Approach" at the 19th International Symposium on Recent Advances in Otitis Media, June 4–8 in Gold Coast, Australia; and "Bacterial Plurality: a Comprehensive Rubric for Understanding Chronic Bacterial Infections" at the International Conference on Microbial Pathogenesis & Host Response Mechanism, August 23–24, in Toronto.

Ehrlich also gave several invited talks in Australia and New Zealand, including "Utilizing the Distributed Genome Hypothesis and Statistical Genetics for the Unbiased Discovery of Novel Bacterial Virulence Genes," May 30 at Massey University, New Zealand; "Chronic Middle-ear Disease as a Rubric for Modeling Persistent Bacterial Infections," June 30 at the University of Adelaide, Australia; "Bacterial Plurality: A Rubric for Understanding Bacterial Persistence," June 13 at Doherty Institute, University of Melbourne, and June 19 at the University of Western Australia; and "Bacterial Population-level Virulence Factors," June 15 at Menzies School of Health Research in Darwin.



**Jason Fodeman, MD**, assistant professor of medicine in the Division of Internal Medicine, was named one of the 2017 Pennsylvania Top Physicians Under 40 by the Pennsylvania Medical Society. Just 41 doctors from across the state were recognized. Fodeman was nominated for

his volunteer work with the Early Career Physician Section of the Pennsylvania Medical Society. In addition, he has been published numerous times regarding the intersection of medicine with law and policy.



**Wen-Jun Gao, MD, PhD**, professor, Department of Neurobiology & Anatomy, was awarded the NIH Exploratory/Developmental Research Grant Award (R21) for his project "Targeting Parvalbumin Neurons in the PFC for Cognitive Deficits."

The R21 grant mechanism is intended to encourage exploratory/developmental research by providing support for the early and conceptual stages of project development. Gao also co-authored "Psychostimulants as Cognitive Enhancers in Adolescents: More Risk Than Reward?" in *Frontiers in Public Health*, September 2017.



**Rashida Ginwala**, a PhD student in the laboratory of Pooja Jain, PhD, received the American Association of Immunologists Trainee Abstract Award for her work "Nutraceutical Apigenin Regulates DC Function in a RelB-dependent Manner During Neuroinflammation." The award was presented in May at Immunology 2017, the association's annual meeting, held in Washington, D.C.



**Simon Giszter, PhD**, professor, Department of Neurobiology & Anatomy, was an invited discussant at the National Academies Keck Futures Initiative conference, Beyond Boundaries: 15 Years of Exploring Intersections in Science, Engineering, and Medicine. Giszter

participated in two Seed Idea Groups: "Human-Technology Interfaces," the focus of which was largely on human augmentation with neuroengineering; developing AI, robotic and bio-technologies; and assessing the potential risks, benefits and costs; and "Non-human Technologies," which focused on how to best design and integrate any future "post-singularity" self-repairing, self-modifying and self-replicating AI and autonomous robot technologies into existing human and biological ecologies, so as to ensure likely positive impacts, with symbiotic checks and balances, at least initially. The conference was held November 8–11, 2017, at the Arnold and Mabel Beckman Center of the National Academies of Sciences and Engineering, Irvine, California.

**Michael J. Goldenthal, PhD**, research associate professor of pediatrics and scientific director of the Mitochondrial Disease Laboratory at St. Christopher's Hospital for Children, and **Agustin Legido, MD, PhD, MBA**, professor of pediatrics and neurology; chief of the Neurology Section at St. Christopher's and medical director of the mitochondrial lab, are among the authors of "Bioenergetic Variation Is Related to Autism Symptomatology" published in the August 29, 2017, edition of *Metabolic Brain Disease* (PMID: 28852932).



**Donald P. Goldsmith, MD**, professor, Department of Pediatrics, received a Distinguished Academic Achievement Award from the University of Vermont College of Medicine, his alma mater, in June 2017. This award was presented in recognition of outstanding scientific

or academic achievement.



**Michael I. Greenberg, MD, MPH**, professor of emergency medicine and chief of the Division of Medical Toxicology, has been appointed to a four-year term as the American Board of Preventive Medicine's representative to the Medical Toxicology Sub-board. He is the recipient of the

American Academy of Clinical Toxicology's 2017 Distinguished Service Award, presented at the North American Congress of Clinical Toxicology, held in October in Vancouver, Canada.

# Calendar

## March

- 8 **Sex & Gender Research Forum**  
Gerri C. LeBow Hall, 9 a.m.–4 p.m.  
[drexel.edu/medicine/sgrf](http://drexel.edu/medicine/sgrf)
- 10 **The Annual Day of Trauma**  
Pennsylvania Convention Center, 7 a.m.–4:30 p.m.  
Contact: Gail Blinstrub, 215.762.4398
- 13 **DUCOM Classical Concert and Alumni Reception**  
Anthony J. Drexel Picture Gallery, 5:30–8:30 p.m.  
Main Building, University City Campus  
Contact: [medical.alumni@drexel.edu](mailto:medical.alumni@drexel.edu)

## April

- 19 **Alumni Event: "Are You Listening: Assessment & Evaluation of Child Sexual Abuse"**  
Panel discussion and reception  
The Logan, 6:00–8:30 p.m.  
Contact: [medical.alumni@drexel.edu](mailto:medical.alumni@drexel.edu)
- 20 **Philadelphia's First Anal Health Symposium CME**  
New College Building, 8:30 a.m.–1:15 p.m.  
Contact: Juliet Fink Yates, 215.985.4448
- 30 **Woman One Award Ceremony**  
Honoring Gloria Twine Chisum, PhD  
The Rittenhouse, Philadelphia, 5:30 p.m.  
[drexel.edu/medicine/womanone](http://drexel.edu/medicine/womanone)  
Contact: Janine Barber, [jkb@drexel.edu](mailto:jkb@drexel.edu)

## May

- 2 **Hypertension Highlights CME**  
New College Building, 8:30 a.m.–noon  
Center City Campus  
Contact: Miki Hayes, 215.762.3489
- 4 **Update in Women's Health CME**  
New College Building, 8 a.m.–1 p.m.  
Center City Campus  
Contact: Brenda Wills, 215.399.5707
- 17-19 **Alumni Weekend**  
[drexel.edu/medicine/alumni/events](http://drexel.edu/medicine/alumni/events)
- 18 **Commencement**  
Kimmel Center for the Performing Arts, 9 a.m.  
[drexel.edu/commencement/ceremonies/medicine](http://drexel.edu/commencement/ceremonies/medicine)

## Ongoing

**Drexel Medicine Physician Refresher/Re-entry Course**  
Contact: Cynthia Johnson, 215.762.2580

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**Alumni: For information about alumni events, please call toll-free 888.DUGRADS (888.384.7237), email [medical.alumni@drexel.edu](mailto:medical.alumni@drexel.edu) or visit [drexel.edu/medicine/alumni/events](http://drexel.edu/medicine/alumni/events).**



Dr. Pasirstein



Dr. McKeever

**Robert "Bubba" Hamilton, EMT-P, EMS-I**, clinical coordinator, Division of Emergency Medical Services in the Department of Emergency Medicine, recently coordinated the presentation of a pre-conference workshop, "Response to the Law Enforcement Scene: What EMS Responders Need to Know" at the 40th annual Pennsylvania EMS Conference, Lancaster,



Dr. Minczak



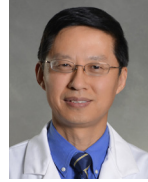
Dr. Riviello

Pennsylvania. The program featured Emergency Medicine faculty members **Drs. Michael Greenberg, Michael Pasirstein, Rita McKeever, Bohdan Minczak, and Ralph Riviello**. Topics included active shooter, injuries from less lethal weapons, injured law enforcement officer treatment, police dog bites, meth lab scene safety, and forensics.



**Meera Nair Harhay, MD**, assistant professor of medicine and transplant nephrologist, was interviewed about transplant nephrology for the podcast "The Undifferentiated Medical Student" ([undifferentiatedmedicalstudent.com](http://undifferentiatedmedicalstudent.com)).

Eventually the podcast will offer an interview with one physician from each of the specialties and subspecialties listed on the Careers in Medicine site of the Association of American Medical Colleges. The goal is to help medical students learn about a potential career path by listening to physicians describe their chosen specialties and the decision-making process.



**J. Steve Hou, MD**, professor of pathology and laboratory medicine, and colleagues authored "Kaposiform Hemangioendothelioma in an Adult Spleen: An Unusual Presentation," in the November 2017 issue of *Human Pathology: Case Reports*.



**Richard Huneke, DVM**, executive director, University Laboratory Animal Resources, and professor of microbiology and immunology, was an invited presenter at the Brazilian Federal Council for Veterinary Medicine's 4th annual conference on animal welfare and well-being. The conference took place in April 2017 in Porto Alegre, Brazil.



**Pooja Jain, PhD**, professor, Department of Microbiology & Immunology, is a coauthor of "HTLV-1 Infection and Neuro-pathogenesis in the Context of Rag1-/-c-/- (RAG1-hu) and BLT Mice," which was e-published by the *Journal of Neuroimmune Pharmacology* on April 4, 2017.

Jain is also coauthor of "Antibody Blockade of CLEC12A Delays EAE Onset and Attenuates Disease Severity by Impairing Myeloid Cell CNS Infiltration and Restoring Positive Immunity" in the June 2017 online issue of *Scientific Reports*.



Dr. Jayatilleke

**Arundathi Jayatilleke, MD**, assistant professor of medicine and director, Rheumatology Fellowship program, was interviewed for an article in *Medpage*, "Higher Allopurinol Dose Can Safely Lower SU in Gout," published in April 2017. Jayatilleke, **Sneha Patel, MD**, internal medicine resident, and **Monica Mohile, MD**, rheumatology fellow, co-authored the lead article,

## Simulation-based Education in Emergency Medicine



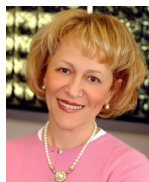
**Sharon Griswold MD, MPH**, professor and director of the Simulation Division in the Department of Emergency Medicine, and director of the MS in Medical and Healthcare Simulation program, is the lead author of "Simulation-based Education to Ensure Provider Competency Within the Healthcare System," published by *Academic Emergency Medicine* (September 30, 2017, online ahead of print). The article presents the consensus deliberations and recommendations of a working group that included emergency medicine faculty from the University of Connecticut, Harvard, Hennepin County Medical Center, Hofstra, Kaiser Permanente (Los Angeles), the University of Washington, and Yale; and a representative of the Foundation for Advancement of International Medical Education and Research.

**Varsha Goswami, MD**, a student in the Drexel MS in medical simulation program is also an author. The group's work was presented for discussion and feedback at the 2017 *Academic Emergency Medicine* Consensus Conference, Catalyzing System Change Through Healthcare Simulation: Systems, Competency, and Outcomes, in May 2017.

The authors note that "although simulation-based training is a quality and safety imperative in other high-reliability professions such as aviation, nuclear power, and the military, health care professions still lag behind in applying simulation more broadly," due to a number of factors. The group focused on identifying gaps in knowledge and process in order to produce "a research agenda informed by expert consensus and literature review." [PMID: 28963862]



"Diagnosis of Acute Gouty Arthritis Obscured by Anchoring Bias," in the *Rheumatologist*, April 2017. In addition, Jayatilleke had an editorial published in the same issue of the *Rheumatologist*, "Ethics Forum: Teach Rheumatology Fellows to Use Good Judgment in Pharmaceutical Company Interactions."



**Ellie Kelepouris, MD**, professor and interim chair, Department of Medicine, and chief of the Division of Nephrology and Hypertension, has been elected to a two-year term as international president of the Society for Women in Nephrology. The election took place at the American

Society of Nephrology National meeting held October 31–November 5, 2017, where Kelepouris was recognized for her leadership in the professional development and mentoring of young men and women colleagues. She was also recently elected as a fellow of the American College of Physicians.

Kelepouris was a keynote speaker at the 2017 West Lake Forum of the Chinese Society of Nephrology held in Hangzhou, China. Her topics included "Recent Concepts in IgA Nephropathy" and "Vitamin D Effect on Bone Disease in Chronic Kidney Disease." She is the recipient of a three-year \$2 million grant from Mallinckrodt Pharmaceuticals to create a national registry for "Innovative Treatments for Glomerulonephritides."

**Felix Kim, PhD**, assistant professor, Department of Pharmacology & Physiology, is co-editor of a new book, *Sigma Proteins: Evolution of the Concept of Sigma Receptors* (Springer, 2017). See cover story.



**Michael Lane, PhD**, assistant professor, Department of Neurobiology & Anatomy, received funding from the Lisa Dean Moseley Foundation for his work titled "Stem Cell-Derived Spinal Interneurons to Repair the Injured Spinal Cord." Lane also received funding from the Wallace H.

Coulter Foundation for collaborative cell therapy work that is being prepared for patent submission.

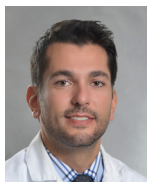


**Joanne Mathiasen, PhD**, professor, Department of Pharmacology & Physiology and co-director, Drug Discovery & Development program, served as a reviewer on a NASA Space Radiation–CNS Degeneration panel on October 3, 2017. The NASA Human Exploration Research Opportunities (HERO) announcement solicits proposals for ground-based research that will provide the basis for accurate risk quantification reflective of the astronaut population; establish the validity of permissible exposure limits; and investigate in-flight cognitive and behavioral central nervous system risks, and biomedical countermeasures for in-flight and late central nervous system decrements resulting from exposure to space radiation.



Dr. Mazin

**Alexander Mazin, PhD**, professor, and **Olga Mazin, PhD**, research associate professor, both in the Department of Biochemistry & Molecular Biology; **Kritika Hanamshet, MS '16**, a doctoral student in the Molecular & Cell Biology & Genetics program; and colleagues from Georgia Institute of Technology, authored "Rad52 Inverse Strand Exchange Drives RNA-Templated DNA Double-Strand Break Repair," which was published in the June 8, 2017, issue of *Molecular Cell*. The paper reveals a new function of the homologous recombination protein, Rad52, which may help to identify new targets for cancer treatment.



**Athanasios (Thanos) Melisiotis, MD**, clinical assistant professor in the Department of Emergency Medicine, has been appointed director of clinical informatics for the department. He is boarded in both emergency medicine and clinical informatics. Prior to his medical career, Melisiotis

founded and operated a company involved in networking, computer hardware and software sales, and developed software. He also has founded and operated companies involved in medical software development.

**Mark Messih, MD**, in his third year in the General Adult Psychiatry Residency program, and Francis Smith, DO, former chief resident in the program (class of 2017), were honored by the Philadelphia Psychiatric Society at the 2017 Benjamin Rush Gala in November. Messih received the Resident Achievement Award and Smith, the Resident Research Award.



**Olimpia Meucci, MD, PhD**, professor and chair, Department of Pharmacology & Physiology, has been awarded funding from the Helen S. Vernik Schizophrenia Pilot Research Project Grant for her project "Determine Whether Stimulation of the Chemokine/Receptor Axis Cxcl12/Cxcr4

Can Rescue Dendritic Spine Deficits and Neurocognitive Dysfunction in Animal Models of Schizophrenia."

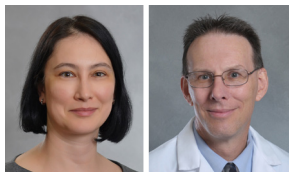
**Eugene Mironets**, a fourth year Neuroscience PhD student in the lab of Veronica Tom, PhD, associate professor, Department of Neurobiology & Anatomy, received a Dean's Fellowship for Excellence in Collaborative or Themed Research.



**Ana Núñez, MD**, associate dean for diversity, equity and inclusion, was the keynote speaker at the Injury-related Health Equity Across the Lifespan (iHeal) Symposium, which was held May 23, 2017, in Seattle.

**Liang Qiang, PhD**, research assistant professor, Department of Neurobiology & Anatomy, delivered a keynote speech entitled "A New Mouse Model for Hereditary Spastic Paraplegia," at the Tissue Engineering and Regenerative Medicine International Society-Asia Pacific Meeting 2017 (TERMIS-AP 2017) in Nantong, China, on September 23, 2017.

**Kevin Raible**, a PhD student in the laboratory of Joshua Chang Mell, PhD, Department of Microbiology & Immunology, was selected to attend the Advanced Bacterial Genetics Course at Cold Spring Harbor Laboratories, held June 6–26, 2017, in Long Island, New York. He was awarded a stipend, offered by the Helmsley Charitable Trust, to attend the course.



Dr. Sajadi

Dr. Ramoska

**Karima Sajadi, MD**, assistant professor, and **Edward Ramoska, MD, MPH**, clinical professor, Department of Emergency Medicine, recently presented their research poster,

"Pigs' Feet are Better Than Bananas as a Model for Suture Training" at the Mediterranean Emergency Medicine Congress, Lisbon, Portugal. **Ralph Riviello, MD**, professor, gave the oral presentation, "Persistent Adverse Mental and Physical Health Outcomes Are Common in Women Following Sexual Assault."

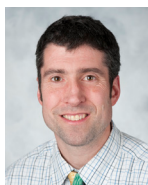


**Allan B. Schwartz, MD**, professor, Department of Medicine, Division of Nephrology & Hypertension, continues to contribute his historical and medical knowledge to *The Philadelphia Inquirer's* "Medical Mystery" series. His recent articles have covered the illnesses and

injuries of George Washington, Andrew Jackson, Thomas Jefferson, Calvin Coolidge, James Garfield, Chester A. Arthur and Benjamin Franklin.



**Harpreet Singh, PhD, MSc**, associate professor, Department of Pharmacology & Physiology and Department of Medicine, Division of Cardiology, was elected chair of the Gordon Research Conference focused on Organellar Channels and Transporters for 2021, and vice chair for 2019.



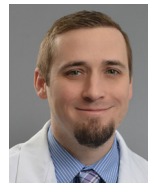
**Daniel R. Taylor, DO**, associate professor of pediatrics, is the author of "A Pediatrician's View: What Will Proposed GOP Cuts Do to Philly's Most Vulnerable?" published in the *The Philadelphia Inquirer* on June 22, 2017. Taylor is the director of Community Pediatrics and Child Advocacy

at St. Christopher's Hospital for Children.



**Veronica Tom, PhD**, associate professor, Department of Neurobiology & Anatomy, presented "Let's Not Get Too Excited: The Role of Soluble TNF $\alpha$  in Autonomic Dysreflexia After Spinal Cord Injury" to the Department of Neuroscience at Georgetown University in September 2017.

**Adeola Tomi-Olugbodi, MD**, a fourth-year Drexel/Hahnemann pathology resident, was one of just 15 pathology residents selected nationwide to "chart a course for pathologists-in-training, achievable by 2020," under the auspices of the United States & Canadian Academy of Pathology and the American Society for Clinical Pathology. This inaugural "2020 Vision" meeting took place April 19–21, 2017, in Palm Springs, California. In addition, Tomi-Olugbodi was chosen from among the residents at the meeting to be interviewed by the Leadership Institute of the American Society for Clinical Pathology, in order to share her views.



**David Vearrier, MD, MPH**, associate professor of emergency medicine and program director for the Medical Toxicology Fellowship program, and **Michael Greenberg, MD, MPH**, professor of emergency medicine and chief of the Division of Medical Toxicology, recently published an article, "The Implementation of Medical Monitoring Programs Following Potentially Hazardous Exposures: A Medico-Legal Perspective," in the journal *Clinical Toxicology*, Vol. 55, Issue 9, 2017 (PMID: 28644057).



**Erol Veznedaroglu, MD**, the Robert A. Groff Chair in Neurosurgery and director of the Drexel Neurosciences Institute, is the editor of the book *Controversies in Vascular Neurosurgery* (Springer, 2016). Veznedaroglu is among the authors of "Training Standards in Neuroendovascular Surgery: Program Accreditation and Practitioner Certification" published in the August 2017 issue of *Stroke* (PMID: 28706116).



**Michael S. Weingarten, MD, MBA**, professor of surgery and medical director of Drexel's Wound Healing Center, was named a Top Doctor in Vascular Surgery by *Philadelphia Life Magazine* (February 2017). Weingarten presented a seminar with Michael Neidrauer, PhD, of Drexel's School of Biomedical Engineering, Science & Health Systems, "Translational Research: The Use of Near Infrared Light in the Detection of Deep Tissue Injury and in the Quantification of Wound Healing," to the Biomed School on April 12, 2017.





Dr. Côté

**Di Wu, PhD**, research associate; **Michelle Klaw**, research assistant; **Theresa Connors**, instructor; **Marie-Pascale Côté, PhD**, assistant professor; and **Veronica Tom, PhD**, associate professor, all in the Department of Neurobiology & Anatomy, are authors of "Combining Constitutively

Active Rheb Expression and Chondroitinase Promotes Functional Axonal Regeneration After Cervical Spinal Cord Injury," in *Molecular Therapy* (in press; published online August 18, 2017).



**Lynn Yeakel, MSM**, director of the Institute for Women's Health and Leadership, wrote a letter to the editor of *The Philadelphia Inquirer* about including male voices in conversations about women's equality, which was published on September 21, 2017.

**Lyandysa (Lana) Zholudeva**, a PhD candidate in the Department of Neurobiology & Anatomy, received the Dean's Fellowship for Excellence in Collaborative or Themed Research for her work as part of the Lane Lab titled "Stem Cell-Derived Spinal Interneurons to Repair the Injured Spinal Cord."

## FAQ: Technology Commercialization

### What is the role of the Office of Technology Commercialization?

The Office of Technology Commercialization, or OTC, works with Drexel faculty across the University to identify research discoveries with commercial potential ([drexel.edu/commercialization](http://drexel.edu/commercialization)). OTC interfaces with intellectual property counsel to secure patent or copyright protection and works with faculty to develop commercialization strategies for the technology. OTC actively reaches out to established companies, entrepreneurs, and investors to find the best fit and resources to develop technologies and bring them to market. This process promotes relationships with industry, has positive impacts on local economic development, and commercializes technologies for the public good. OTC negotiates license agreements, material transfer agreements, confidentiality agreements, and sponsored research agreements. The income generated by OTC is shared with Drexel inventors and reinvested in Drexel's educational and research programs.

### What are the benefits of working with OTC?

OTC helps academic research transition to the marketplace as products and services that advance the public good. Drexel researchers benefit through relationships and funding with corporate partners, access to grants dedicated to commercialization, or building a startup company with entrepreneurs and investors from the ground up. The existence of pending or issued patents can also bolster a federal grant application's scientific and translational merit.

### Whom do I contact to discuss my invention, and how do I document my idea?

The licensing manager who works with College of Medicine faculty is Sarah Johnson, PhD. She can be contacted

via email at [sarah.a.johnson@drexel.edu](mailto:sarah.a.johnson@drexel.edu) or by phone at 215.571.4291. The office has a standard invention disclosure form for faculty to submit, which includes experimental data, research plan, stage of development, inventors, previous and upcoming public disclosures, and funding sources used.

### When should I contact OTC about my invention?

Ideally, researchers should contact OTC before any public disclosure occurs for a project of patentable subject matter with a commercial opportunity. Public disclosure includes journal publications, oral presentations where non-Drexel employees are present, conference abstracts, poster sessions, dissertations, public oral defenses, and online publications, blogs, and videos. Researchers are free to present what they want, when they want, but early disclosure helps the University preserve patent rights and commercialization opportunities.

### What internal funding is available to support such projects?

The Coulter-Drexel Translational Research Partnership aims to develop products that will save, extend, and improve the lives of patients suffering from any disease or condition, in any size market, in any country. The program provides funding for projects that serve an unmet medical need with scientific merit and a strong intellectual property position, in addition to a high probability of attracting follow-on funding. Each year, the program funds four to seven projects at a level of \$75,000–\$200,000 for one year of support. For more information, please contact the Coulter program director, Kathie Jordan, PhD, by email at [kcj39@drexel.edu](mailto:kcj39@drexel.edu) or by phone at 215.895.1860.

*Answers were provided by Sarah A. Johnson, PhD, licensing manager in the Office of Technology Commercialization, where she is responsible for managing intellectual property and commercializing inventions from life sciences and the College of Medicine.*

## '50s

**Louise Sabol-Rubel, MD, WMC '59 (deceased)**, was selected posthumously to receive the Outstanding Science Alumni Award of the Penn State Eberly College of Science. She earned her bachelor's degree at Penn State, where she was one of only two women in the pre-med program.

## '60s

**Wilma Bulkin-Siegel, MD, WMC '62**, an award winning artist and retired oncologist, was named to the board of directors of the Baltimore Museum of Art.

**Elissa J. Santoro, MD, WMC '65, Surgical Internship WMC '66**, a surgical oncologist with the Center for Breast Health and Disease Management at Saint Barnabas Medical Center, Livingston, New Jersey, was named a Patient Preferred Oncologist by Patient Preferred Physicians and Practitioners.

**Joel Schwartz, MD, HU '65**, a child, adolescent and adult psychiatrist and psychoanalyst, is the author of *Noses Are Red: How to Nurture Your Child's Sense of Humor*, which was showcased at the 2017 Book Expo America.

**Anna T. Meadows, MD, WMC '69**, emeritus professor of pediatrics and medicine at the Perelman School of Medicine, University of Pennsylvania, was the subject of a profile in the "Narratives in Oncology" special issue of *The ASCO Post* [American Society of Clinical Oncology], recognizing her as "an internationally distinguished pediatric oncologist who led paradigm-changing survivorship research and clinical care of children with cancer."

## '70s

**Robert A. Figlin, MD, MCP '76**, was appointed to CBT Pharmaceuticals' newly established scientific advisory board. He is the Steven Spielberg Family Chair in Hematology Oncology, professor of medicine and biomedical sciences, and director of the Division of Hematology and Oncology at Cedars-Sinai Medical Center in Los Angeles.

**Marian Baldini, MS, HU '77**, president and CEO of KenCrest, has joined the Forum of Executive Women, a membership organization of more than 400 women of influence in the Greater Philadelphia region.

**Paul W. Esposito, MD, HU '77**, professor of orthopedic surgery and pediatrics at the University of Nebraska and clinical service chief at Children's Hospital & Medical Center, Omaha, was honored with the 2017 Distinguished Service Award of the American Academy of Pediatrics Section on Orthopaedics.

**Marlene Wolf, MD, MCP '77**, a health care speaker with Lifetime Medical Consulting LLC, presented "Targeting the Patient Experience" at the NACE: Emerging Challenges in Primary Care 2017 conference in Raleigh, North Carolina, last June. She has joined the faculty of Nova Southeastern University's College of Allopathic Medicine, in Fort Lauderdale, as clinical assistant professor of family medicine.

**Bruce Bush, MD, HU '78**, announced his retirement as senior vice president at Indiana Regional Medical Center.

**Lawrence Goren, MD, HU '78**, founder and medical director of Onsite Innovations, received the healthcare services award at the 2017 Greater Philadelphia EY Entrepreneurs of the Year gala.

**Stephen K. Klasko, MD, HU '78**, CEO of Jefferson Health, was ranked No. 24 on Modern Healthcare's list of "Top 50 Most Influential Physician Executives and Leaders."

**Ronald Avery Krisch, MD, HU '78**, was formally recognized as a distinguished life fellow of the American Psychiatric Association.

## '80s

**Hy J. DePamphilis, MD, MCP '82**, an internist who is also board-certified in geriatric medicine, joined the medical staff at Penn Highlands Brookville in Brookville, Pennsylvania.

**Barbara J. Dalton, PhD Microbiology & Immunology, MCP '83**, was named to the GVC Powerlist 2017 by Global Corporate Venturing, media publication and data provider for the corporate venture capital industry. Dalton is a vice president at Pfizer, where she manages the Pfizer Ventures Investments team.

**Michael J. Demeure, MD, HU '83**, was named program director of Hoag Precision Medicine at the Hoag Family Cancer Institute in Newport Beach, California. He is a fellowship-trained endocrine surgeon with a longstanding interest in developing new treatments for endocrine cancers based on molecular genomics.

**Craig Earl, PhD Pharmacology, MCP '83**, became executive director of Project Delivery at PRA Health Sciences, Raleigh, North Carolina.

**Robert Spees, MD, HU '83**, an internal medicine physician at the Doctor's Medical Group of Colorado Springs, who is affiliated with Penrose St. Francis Health Services and Memorial Hospital Central, has been named a 2017 Top Doctor in Colorado Springs, Colorado.

**Deborah Kimmel, MD, MCP '84**, received an award from the Brain Injury Association of Pennsylvania for her leadership in the field of brain injury rehabilitation. She served as a medical director of the Brain Injury Program and the medical director of the Multiple Sclerosis Program at Good Shepherd Rehabilitation Hospital in Allentown. She also served as a staff physiatrist at Good Shepherd from 2001 until her retirement in 2016.



**Alan Levinson, MD, MCP '84**, a urologist based in Decatur, Georgia, was named one of Atlanta's Top Doctors in *Atlanta* magazine.

**Donald M. Yealy, MD, MCP '85**, has been elected to the National Academy of Medicine. He is chair of emergency medicine at UPMC and a professor of emergency medicine and clinical and translational sciences at the University of Pittsburgh School of Medicine.

**Adrienne Withers Bradley, MD, HU '86**, joined the board of trustees of Beverly and Addison Gilbert Hospitals in Massachusetts.

**Henry A. DePhillips III, MD, HU '86**, became the senior vice president and chief medical officer at Cedar Gate Technologies, Greenwich, Connecticut.

**Scott Berman, MD, HU '87**, a vascular surgeon with Carondelet Medical Group and the medical director for the Rocky Mountain Vascular Quality Initiative, received the Outstanding Neurology/Vascular Award at the Influential Health and Medical Awards banquet sponsored by Tucson Local Media and *Inside Tucson Business*.

**Howard J. Franklin, MD, MCP '88**, joined Salix, a pharmaceutical company specializing in treating gastrointestinal disorders, as vice president of medical affairs and strategy.

**Dan Hartman, MD, MCP '88**, CEO and medical director of Philmont Guidance Center, was named vice president of Outpatient Behavioral Health for the Holy Redeemer Health System which serves southeastern Pennsylvania and New Jersey.

**Stefanie Porges, MD, HU '88; Internal Medicine Residency, HU '91**, was reappointed to the Disciplinary Board of the Supreme Court of Pennsylvania. She is the medical director of the Emergency Medicine Department Observation Unit at the Hospital of the University of Pennsylvania and an attending in emergency medicine.

**Laurel P. Hansch, MD, HU '89**, joined the Board of Directors of the Breast Cancer Resource Center of Santa Barbara. Dr. Hansch is the president of South Coast Radiological Association and serves in multiple leadership positions within the medical staff of the Cottage Health Systems.

## '90s

**Joyann Kroser, MD, MCP '90**, a gastroenterologist with Crozer-Keystone Health System, has been appointed clinical professor of medicine at Drexel University College of Medicine. Kroser earlier served as an associate professor of medicine and medical director of Drexel's Center for Digestive Health until late 2011, when she left to join a private practice. She is a member of the College of Medicine Alumni Association Board of Directors.

**Binoy K. Singh, MD, MCP '93; Internal Medicine Residency, MCP '96; Cardiovascular Disease Fellowship, HU '00**, a cardiologist with the Northwell Health System—Lenox Hill and faculty member of Hofstra Northwell School of Medicine, was named a 2017 Top Doctor in Yorktown Heights, New York.

**Betsy Johns, MD, HU '94**, joined the Stormont Vail Health medical team and will practice as a family medicine physician at Cotton O'Neil Corporate View in Topeka, Kansas.

**Dean B. Spingola, DMD; MD, MCP '95**, an oral surgeon in the Dallas-Fort Worth area, was recognized in *D Magazine's* list of Best Dentists in Dallas.

**David Abbott, MD, HU '96**, a pediatrician at Children's Medical Clinic, Cottage Health, Santa Barbara, was recognized as the best children's doctor in the *Santa Barbara Independent's* "Best of Santa Barbara 2017: Little Creatures" for the second year in row.

**Gregory P. Cuculino, MD, MCP '96**, an emergency medicine physician, joined Parrish Medical Center in Titusville, Florida, as the emergency department medical director.

**Madhumita Sadhukhan, MD, MCP '97**, joined SouthEast Lancaster Health Services as a family practice physician.

**Corey Goldstein, MD, HU '98**, a psychiatrist who has been with Rush University Medical Center for almost two decades, joined Rush's new emergency medicine residency program to refocus his practice on emergency medicine.



This quartet of Hahnemann alumni gets together each year for a Southeastern Conference football game: (l-r) **Elmer G. Pinzon, MD, HU '94; MPH** (physical medicine/rehab); and **Drs. Mike Addonizio** (radiology), **Andy Summers** (pediatrics) and **Jack Lee** (pulmonology/internal medicine), all **HU '93**. For their 2017 outing, they watched the 24th-ranked Florida Gators beat the 23rd-ranked Tennessee Volunteers at Ben Hill Griffin Stadium in Gainesville on September 16.

**Regina Hampton, MD, MCP '98**, has become the first female president-elect of the medical staff at Doctors Community Hospital in its 40-year history. She is the medical director of the Breast Center at the hospital, which is in Lanham, Maryland. She is a co-founder of Breast Care for Washington in Washington, D.C., and recently became CEO of Cherry Blossom Intimates, a store that caters to breast cancer patients.



**John Meisel, MD, MCP '98**, a family physician, was hired at Kaiser Permanente Maui Lani Medical Office and Kaiser Permanente Kihei Clinic in Hawaii.

## '00s

**Tony S. Quang, MD '02**, joined the University of Washington School of Law as an adjunct professor of law. He has been teaching as an associate professor of radiation oncology at the University of Washington School of Medicine.

**Deric Savior, MD '02**, has been appointed head of medical oncology at Fox Chase Cancer Center at Temple University Hospital.

**Jennifer DeGeus, MD '03**, a pediatrician at Lake Forest Pediatric Associates in Joliet, Illinois, was featured in an article on volunteer work performed by the Alumni Association of the University of Michigan, where she completed her undergraduate degree.

**Sadiq El-Amin, MD '03; PhD Molecular & Cellular Biology MCPHU '01**, an orthopedic surgeon, joined the Concussion Institute at Gwinnett Medical Center, Lawrenceville, Georgia, as medical director. El-Amin also earned a master's in Interdepartmental Medical Science from the College in 1997.

**Aditya Mehra, MD '03**, will lead a team of physicians at the Vascular Institute at Monmouth Medical Center Southern Campus in Lakewood, New Jersey.

**Michael C. Sleet, MD '04**, who is board certified in surgery and surgical critical care, has joined the Conemaugh Physician Group in Johnstown, Pennsylvania, caring for surgical patients, and trauma patients at Conemaugh Memorial Medical Center's Level 1 trauma center.

**Sapna Vaghani, MD '04**, joined the medical staff of Premier Dermatology in New Lenox, Illinois.

**Vasiliki Moragianni, MD '05**, a reproductive endocrinologist, joined Colorado Center for Reproductive Medicine in Northern Virginia.

**Michelle T. Chudow, MD '06**, a pediatrician focusing on child abuse, was appointed child protection director for Greater Baltimore Medical Center. She has been medical director for the Baltimore County Child Advocacy Center for the past three years and has served on the Children's Justice Act Committee under the Maryland Governor's Office of Crime Control and Prevention since January 2017. She also sees patients in two regional pediatric emergency departments.

**Athanasios Melisiotis, MD '07**. See "What We're Doing," page 17.

**Sachin Logani, MD '08**, a board-certified cardiologist, joined Vidant Cardiology in Greenville, North Carolina.

## '10s

**Wael Ghacham, MD '10**, an orthopedic spine surgeon, joined Samaritan Neurosurgery in Corvallis, Oregon, after completing his residency at the Henry Ford Hospital in Detroit, and his fellowship in orthopedic surgery of the spine at William Beaumont Hospital, Royal Oak, Michigan.

**Pavan Malur, MD '11; Drexel/Hahnemann Cardiovascular Disease Fellowship '17**, has joined Ochsner Medical Center-Baton Rouge in Louisiana. He completed an internal medicine residency at Ochsner Medical Center in New Orleans. He is board certified in nuclear cardiology as well as internal medicine.

**Prianka Chawla, MD '12**, a primary care physician and assistant professor at Tufts Medical Center in Boston, was featured in "Ask the Expert" in the June 21, 2017, issue of *Boston* magazine.

**Carlton Fenzl, MD '12**, was promoted to partner at Eye Surgeons Associates in Bettendorf, Iowa. He joined the practice after completing the University of Utah Moran Eye Center Fellowship program.

**Robert Kelly Jr., MD '12**, joined Core Physicians in Exeter, New Hampshire, as a family medicine physician.

**Justin Sirianni, MD '12**, has joined Coastal Orthopedics Sports Medicine and Pain Management in Bradenton, Florida. He completed his residency in anesthesiology at the University of Arizona Medical Center, where he served as chief resident, and then completed a fellowship in pain medicine at Wake Forest University and the Carolinas Pain Institute.

**Tara Miller, MS Clinical Research Organization & Management '13**, clinical affairs manager at PharmaJet, is a co-author of "Needle-Free Jet Injection in Workplace Influenza Clinics," an Expert View article published in *ONdrugDelivery Magazine*. Miller is an adjunct faculty member for the Clinical Research Organization & Management program.

**Swetha Pathak, MD '13**, a dermatologist, has joined the medical staff at Novant Health Premier Medical Associates in Winston-Salem, North Carolina.

**Krystilyn L. Washington, MD '13**, gave a talk at the Fauquier County Branch NAACP Educational Seminar at the Fauquier Hospital. She is an OB/GYN at Kaiser Permanente in Woodbridge, Virginia. She completed the Drexel Pathway to Medical School program in 2009.

**Jason R. Woloski, MD '14**, a family physician, joined the Community Medicine practice at Geisinger Kingston, in Kingston, Pennsylvania.

**Kritika Hanamshet, MS Cancer Biology '16**, is a doctoral student in the Molecular & Cell Biology & Genetics program. See Mazin item in "What We're Doing," page 17.

**Anand Rao, PhD Neuroscience '17**, co-founded and became the CEO of XSO, LLC. He is a postdoctoral fellow at Stanford University.

## Former Residents and Fellows

(alphabetical)

**Michael Adenaike, MD; Drexel/Hahnemann Internal Medicine Residency '10, and Cardiovascular Disease Fellowship '13**, has joined Doylestown Health Cardiology in Doylestown and Warrington, Pennsylvania.

**Sundeep J. Ekbote, MD; Emergency Medicine Residency, MCPHU '96**, joined the medical staff at Monongahela Valley Hospital in Monongahela, Pennsylvania, as director of the Emergency Department.

**Marilyn Heine, MD; Medical Oncology Fellowship, MCP '89**, an attending physician in hematology/oncology and emergency medicine, presented two sessions on cutting-edge information at ACEP17, the annual scientific assembly of the American College of Emergency Physicians, held last fall: "Hemostasis Without Direct Pressure: ED Applications of Tranexamic Acid" and "TTP, HUS, HIT, ITP ... HELP!" Heine holds an appointment as clinical assistant professor of medicine at the College of Medicine.

**Mark Stacy, MD; Neurology Residency, HU '90**, was named dean of the Brody School of Medicine at East Carolina University.

**Gerald Wydro, MD; Emergency Medicine Residency, MCP '97; Emergency Medical Services Fellowship, MCP '98**, chairman of emergency medicine at Aria Jefferson Health, was named to the *Bucks County Courier Times*' list of "2017 Emerging Leaders in Bucks & Eastern Montgomery Counties."



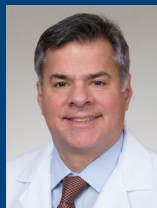
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## In Memoriam

**Andres Castellanos, MD**, an associate professor in the Department of Surgery, died on December 12, after a prolonged illness. A specialist in bariatric and minimally



invasive surgery, he was executive vice chair of the department and program director of the Drexel/Hahnemann General Surgery Residency program, of which he was a 2001 graduate. He was also an instructor in advanced trauma life support at Hahnemann University Hospital. Castellanos immigrated to the United States from Venezuela after

completing medical school there. He finished his surgical residency at MCP-Hahnemann and spent a postgraduate year in the laboratory of William Meyers, MD, focusing on haptics, before joining the College of Medicine. He is survived by his wife, Jill, and their son, Alex.

At his family's request, memorial donations may be made to the Andres Castellanos Simulation and Education Fund, Drexel University College of Medicine, P.O. Box 8215, Philadelphia, PA 19101.

**Frank Irwin Marlowe, MD**, a professor in the Department of Otolaryngology, died September 15. He had been a faculty member since 1971, beginning at Medical College of Pennsylvania, where he was chair of otolaryngology and president of the medical staff at MCP Hospital. Marlowe received his medical degree from the University of Pittsburgh and was commissioned in the U.S. Navy Medical Corps. He completed his training at the Naval Hospital in Philadelphia, eventually becoming chief of the Ear, Nose and Throat Department and head of the residency program. After eight years, he went into private practice, but continued in the Naval Reserves, retiring 30 years later with the rank of captain. He is survived by his wife of 60 years, Myrna; his children, Andrew, Scott and Mychele; and seven grandchildren.

**Marilyn L. Cannon-Guzzo, MD, WMC '52**, July 21, 2017

**Patricia A. Cilluffo, MD, WMC '65**, July 18, 2017

**Catherine V. Dwyer, MD, WMC '59**, May 3, 2017

**John J. Fittipoldi Jr., MD, HU '46**, June 24, 2017

**John J. Fuoco, MD, MCP '82**, June 17, 2017

**John B. Goedecke, MD, HU '60**, June 18, 2017

**Paul R. Honan Jr., MD, HU '46**, May 18, 2017

**John T. Hopkins, MD, HU '76**, June 1, 2017

**Marion Johnston, MD, WMC '47**, June 15, 2017

**Renate G. Justin, MD, WMC '51**, June 30, 2017

**Moonjohn Kim, MD, HU '93**, July 6, 2017

**Marilyn Mahon, MD, WMC '50**, April 2017

**Ohnn Nahm, MD, MCP '95**, May 15, 2017

**Robert N. Naughten, MD, HU '59**, July 14, 2017

**Joseph V. Olivia, MD, HU '55**, July 9, 2017

**Jo Anne Overleese, MD, WMC '50**, May 10, 2017

**William J. Savory, MD, HU '54**, January 6, 2017

**Claire A. Schehr-Ryan, MD, WMC '56**, June 9, 2017

**Guy W. Sewell, MD, HU '46**, February 18, 2017

**Elsie M. Tytla-Claypool, MD, WMC '51**, June 24, 2017

**Alexander F. Wahlig Jr., MD, HU '61**, April 23, 2017

**John J. Welsh, MD, HU '56**, August 19, 2017

**Irma West, MD, WMC '47**, July 2, 2017





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## From 1865 to Google Doodle: Happy 152nd Birthday, Dr. Sue



Google honored the legacy of trailblazing physician Susan La Flesche Picotte, WMC 1889, the first Native American to receive a medical degree. Picotte was featured as the daily Google Doodle on the 152nd anniversary of her birth on June 17, 2017. The image shows “Dr. Sue” flanked on one side by Woman’s Medical College of Pennsylvania and on the other by the hospital she later started on the Omaha Reservation in Nebraska where she grew up.

Read more at [google.com/doodles/susan-la-flesche-picottes-152nd-birthday](http://google.com/doodles/susan-la-flesche-picottes-152nd-birthday).  
The photo is from the College of Medicine’s Legacy Center ([drexel.edu/legacycenter](http://drexel.edu/legacycenter)).