

Cincinnati**Medicine**

UC COLLEGE OF MEDICINE | MEDICAL ALUMNI ASSOCIATION

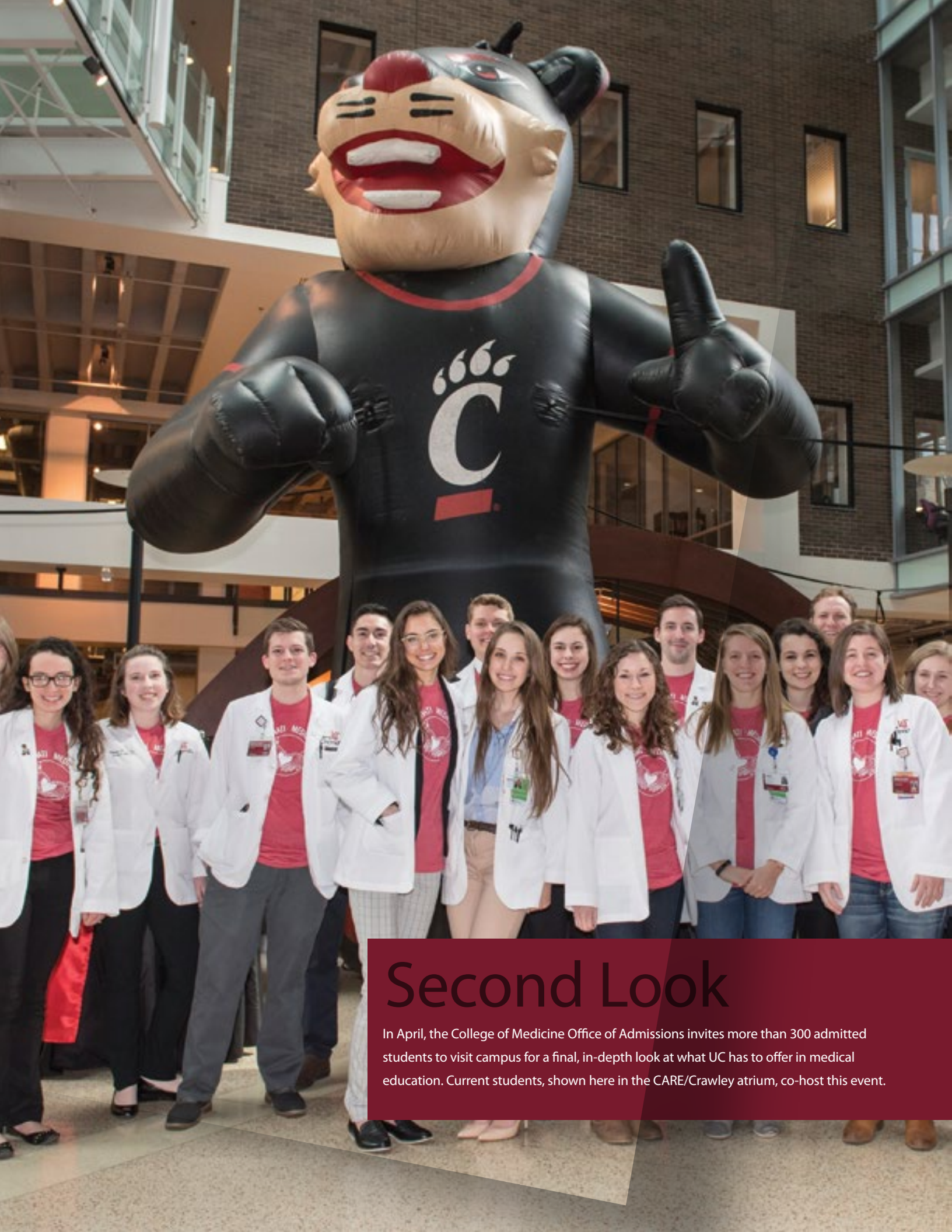
2017

Ready When You Need Them

Emergency Medicine
and the Community

University of
CINCINNATI





Second Look

In April, the College of Medicine Office of Admissions invites more than 300 admitted students to visit campus for a final, in-depth look at what UC has to offer in medical education. Current students, shown here in the CARE/Crawley atrium, co-host this event.

From **THE DEAN**

The last several months have been an exciting time across the institution for many reasons.

In February we welcomed a new university president. Neville Pinto spent 26 years as a faculty member and dean at UC, having served in many leadership roles in the College of Engineering, then as Vice Provost and Dean of the Graduate School with a leadership focus on STEM education. Most recently he returns to UC from the University of Louisville, where he was Acting President. We are hopeful his passion and vision will lead UC to the apex of research universities. Among his top priorities is leading UC to National Cancer Institute designation.

As the only medical school in the Cincinnati region, we train a significant portion of our community's doctors and provide biomedical research discoveries that will lead to improved standard of care. The college also serves as a key economic driver to the region. A recent economic impact report issued at the end of 2016 and compiled by the UC Economics Center, illustrated a nearly \$1 billion impact across the region annually. We are also a tremendous job generator, supporting 2,600 full time jobs at the college and generating over 1,700 new jobs annually in our region. This impact is almost 10 times greater than such area institutions as the Cincinnati Zoo and Museum Center as a contributor to the overall financial health of the region.

The College of Medicine plays a vital role in maintaining and growing the physician workforce of Cincinnati. Many of our excellent graduates and residency program trainees build strong relationships within this community, realize how wonderful Cincinnati is and choose to stay here when their education or training is completed. The same report showed a five-year average of 24 percent of graduates remain in the region, with that number on an

upward growth trend since 2013.

The ripple effect from our investment in the community goes on and on. But not just investment from a fiscal perspective.

In these pages you'll read examples of other ways we are **indispensable** to the community: the ubiquitousness of our Emergency Medicine faculty—engaged and embedded in corners of the region far and wide, serving as medical directors at over 40 fire departments, on hand at the region's biggest events, ready in the case of disaster, and teaching the community's first responders about the newest life-saving practices.

Training the next generation of researchers and caregivers goes beyond the classroom as you'll read about the inventive Lakota high school students who get one-on-one time with leading HIV/AIDS researcher Carl Fichtenbaum, MD.

Finally, we take time to honor both pioneers and practitioners who help pave the way for their successors through leadership and stewardship, including John Hutton, MD, the College of Medicine's third-longest tenured dean, who passed away in 2016 but whose passion for medical education lives on throughout the College.

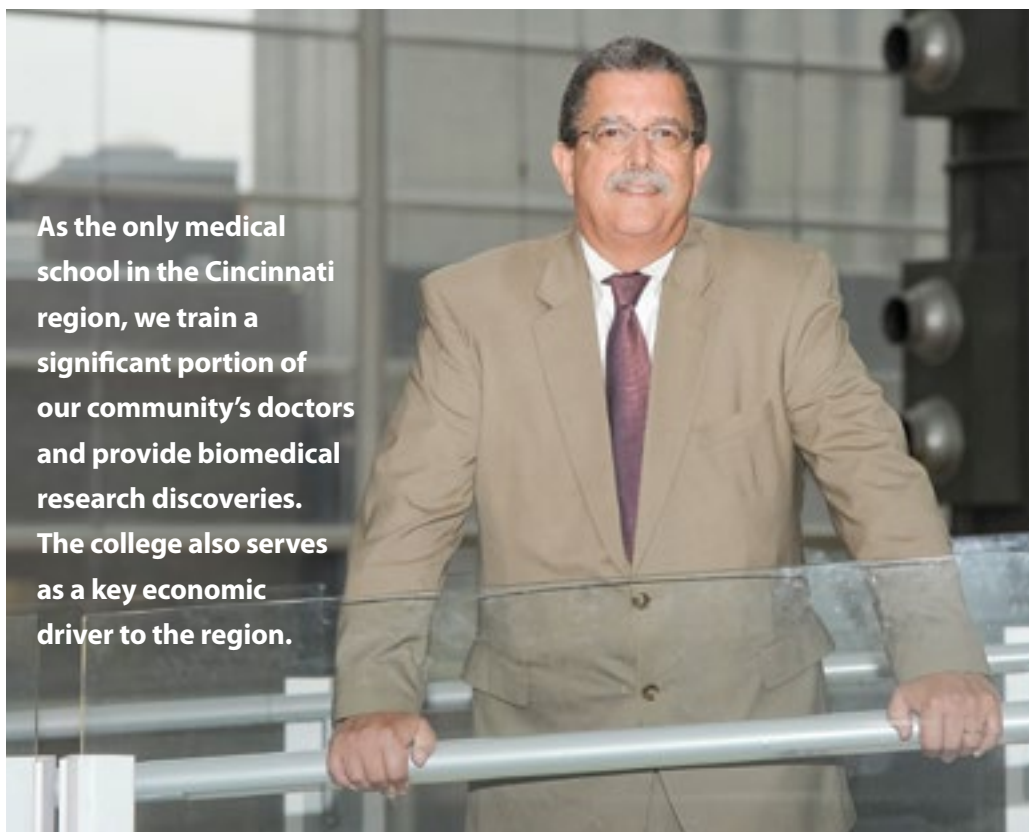
This 2017 issue of Cincinnati Medicine comprises just a glimpse of the impact UC College of Medicine has in the community and how the impact of our graduates ripples throughout the far corners of health care. ■

William S. Ball, MD

Senior Vice President for Health Affairs

Christian R. Holmes Professor and Dean, College of Medicine

@COMDeanBall



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CincinnatiMedicine

Cincinnati Medicine is published for University of Cincinnati College of Medicine alumni and friends by the University of Cincinnati Academic Health Center Office of Development and Alumni Affairs.

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College of Medicine

**ASSOCIATE VICE PRESIDENT
FOR DEVELOPMENT,
ACADEMIC HEALTH CENTER
& UC HEALTH**

Michael Zenz

**ASSOCIATE DIRECTOR,
ALUMNI AFFAIRS
COLLEGE OF MEDICINE**

Tiffany Marsh

EDITOR

Alison Sampson

CONTRIBUTING WRITERS

Bill Bangert

Angela Koenig

Katie Pence

Richard Puff

Cedric Ricks

Alison Sampson

Caitlin Whitehurst

PHOTOGRAPHY

Colleen Kelly

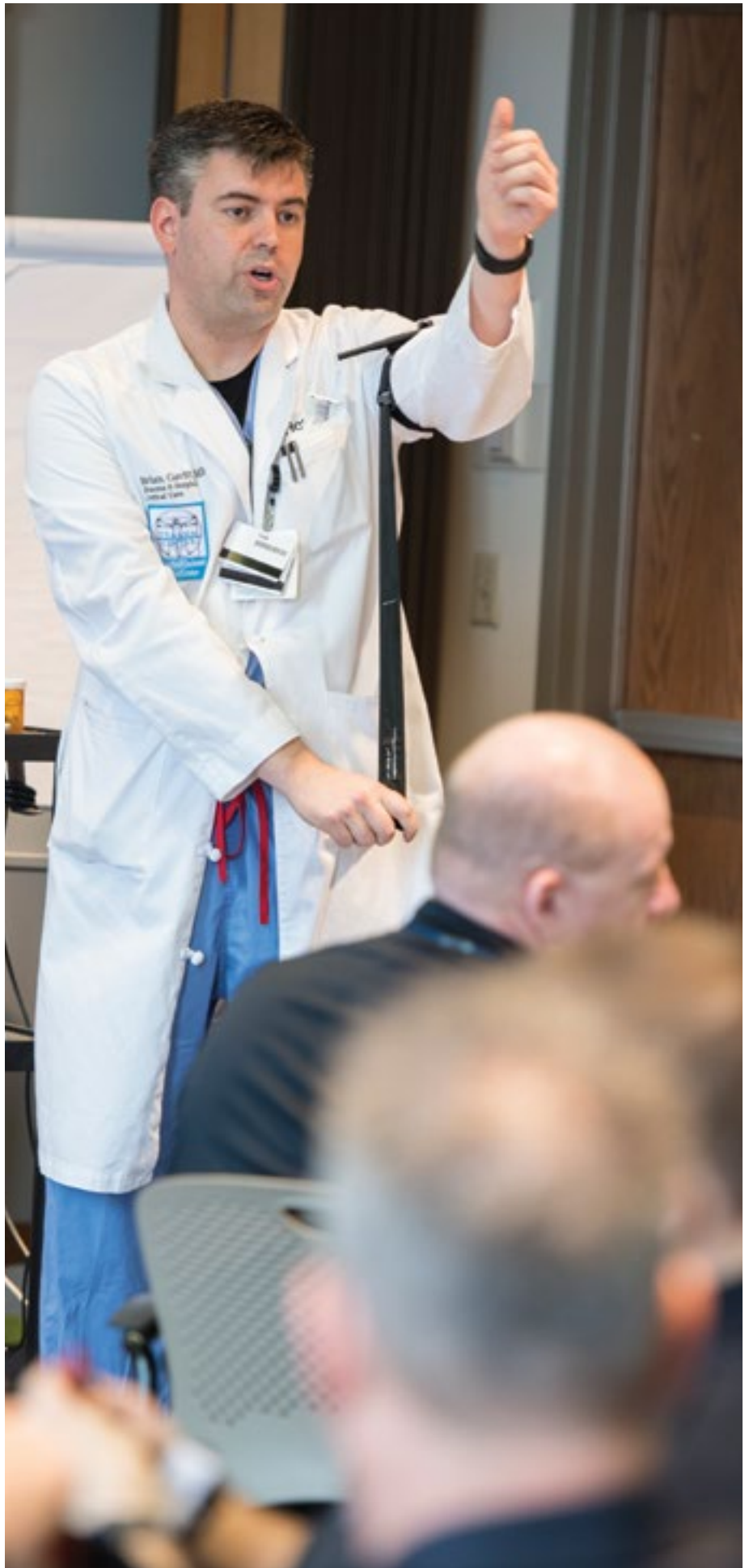
**To submit class notes or correspondence,
change address or unsubscribe:**

University of Cincinnati Academic Health Center
Development and Alumni Affairs
PO Box 19970
Cincinnati, OH 45219-0970

Voice (513) 558-5646

Web med.uc.edu

Email comalum@uc.edu





Shaimaa Ibrahim, a graduate student in the Department of Pharmacology and Cell Biophysics, has received a fourth year of Fulbright Scholar funding to continue her research at UC. *Story: page 14*

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Each year, the Alumni Association honors MD graduates for outstanding achievements. This year, both recipients are from the Class of 1977.

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Phillip Diller, MD, PhD, board chair of the Winkler Center for the History of the Health Professions, shares a few of his favorite things about the area's rich medical history.

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Frances Hagins, MD (Med '51), along with her husband William made for a groundbreaking couple in medical achievements. Now a Hagins estate gift goes toward a matching fund to help build scholarships.

ON THE COVER: Art Pancioli, MD, chair of the Department of Emergency Medicine, which works with more than 40 EMS units in the region, serving over 600,000 residents.

OPPOSITE: Brian Gavitt, MD, demonstrates proper tourniquet technique in a Stop the Bleed community training at UC Medical Center.

UC, Home to StrokeNet, Coordinating Trial to Look at Longer Treatment Window for Stroke

Since 2014, UC has been home to StrokeNet, the national coordinating center for all stroke trials within the National Institute of Neurological Disorders and Stroke network, which spans 25 regional stroke centers and nearly 300 participating hospitals.

Recently, UC was notified of a sub-award for \$4 million (with a renewing \$1 million annually)

to serve as both trial coordinator and a local recruiting center for an acute stroke interventional trial, known as the DEFUSE 3 trial.

The multicenter randomized trial looks at treatment of acute stroke in patients who are beyond the six-hour standard timeframe for endovascular therapy, instead extending the treatment window out as far as 16 hours after exhibiting stroke

symptoms. Advanced MR or CT imaging evaluation will serve to identify patients eligible for the trial.

UC Medical Center serves

as the trial site for Cincinnati and is a collaboration between radiologists and neurologists working with the UC Stroke Team. ■

\$3.18 Million Grant to Continue UC's Study on the Neurotoxic Effects of Manganese Exposure in Youth

Researchers at UC College of Medicine and Cincinnati Children's Hospital Medical Center have been awarded a \$3.18 million grant renewal from the National Institute of Environmental Health Sciences to continue a study of manganese exposure in youth as it relates to brain development.

The study that has monitored children for potential exposure to manganese in Marietta, Ohio, is now tracking

the same cohort into adolescence and has expanded to East Liverpool, Ohio. The Communities Actively Researching Exposure Study (CARES) was initiated in 2008 based on community concern about exposure to manganese from a metallurgical manufacturing company near Marietta.

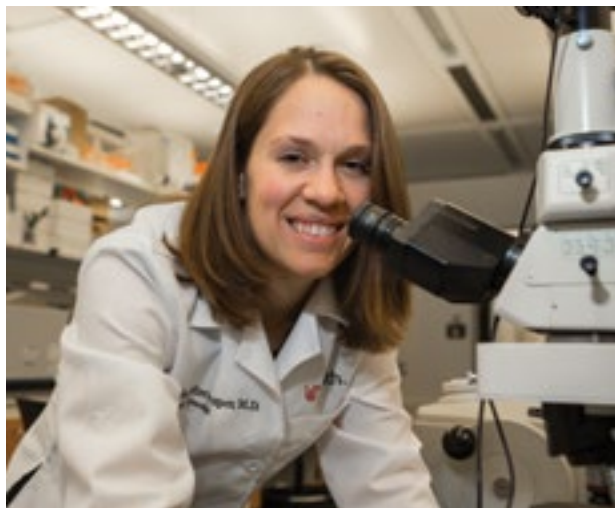
Erin Haynes, DrPH, associate professor in the Department of Environmental Health, is principal investigator and says

CARES now includes over 500 children across three communities in eastern Ohio.

Manganese is used widely in the production of steel, alloys and batteries, but children may be particularly susceptible to the neurotoxic effects of ambient exposure. Previously, CARES found that both too low and too high levels of manganese can be associated with lower neurodevelopment and that large sources of ambient manganese are found in the communities in the study. ■



Diabetes Drug Shows Benefits for Head and Neck Cancer



Researchers at the UC College of Medicine have found that adding increasing doses of an approved Type 2 diabetes drug, metformin, to a chemotherapy and radiation treatment regimen in head and neck cancer patients is not well tolerated if escalated too quickly, but allowing slower escalation could be beneficial.

Trisha Wise-Draper, MD, PhD, assistant professor in the Division of Hematology Oncology, a member of both the Cincinnati Cancer Consortium and UC Cancer Institute and principal investigator on this study, says retrospective studies have shown improved outcomes in tumors treated with chemotherapy and radiation if they were also on metformin for diabetes.

In head and neck squamous cell carcinoma, diabetic patients taking metformin had better overall survival compared to those not on metformin when also treated with chemotherapy and radiation.

Metformin was administered orally in escalating doses for seven to 14 days prior to starting the chemo and radiation and continued throughout standard treatment. The results are part of an ongoing clinical trial. ■

Cheng Named Chair of Department of Neurosurgery



Joseph Cheng, MD, was named professor and chair of the Department of Neurosurgery and will lead all neurosurgery activities at UC Health effective July 1, 2017. He also will hold the Frank H. Mayfield Endowed Chair for Neurological Surgery.

Cheng is charged with growing an academic neurosurgery program that is fully integrated within the College of Medicine and UC Health. He will lead efforts to enhance postgraduate education, explore the future of neurosurgery through research and as a clinical department of the College of Medicine and grow clinical interactions between neurosurgery and other neuroscience-related departments. Cheng comes to Cincinnati from the Yale School of Medicine, where he was professor and vice chair of neurosurgery. ■

UC Researchers Examine Potential Drug Pathway to Combat Pneumocystis

A study led by UC researchers is offering new insight into how the fungus *Pneumocystis* thrives in the lungs of immunocompromised individuals, where it can cause a fatal pneumonia. Published results detail the use of animal models to identify a new drug therapy for the potential treatment of *Pneumocystis* pneumonia.

Pneumocystis must transport inositol—a sugar-like nutrient essential for life in most organisms—obtained from the mammalian lung using a specific transporter. Melanie Cushion, PhD, senior associate dean for research, professor in the Department of Internal Medicine and lead author, says identifying a drug to inhibit the transporter will kill the *Pneumocystis* fungi.

These fungi are immune to common current anti-fungal

therapies, and the gold standard therapy, trimethoprim sulfamethoxazole, often results in allergic reactions in many patients, which can be life-threatening.

For individuals living with HIV/AIDS, *Pneumocystis jirovecii* causes a lethal pneumonia,

called PCP, despite the use of combined antiretroviral therapy in patients. An advance in combating *Pneumocystis* could also help transplant patients who are on immunosuppressive drugs for life and other patients receiving these therapies for ailments such as rheumatoid arthritis. ■



Medicine in Extreme Environments: Life on the International Space Station

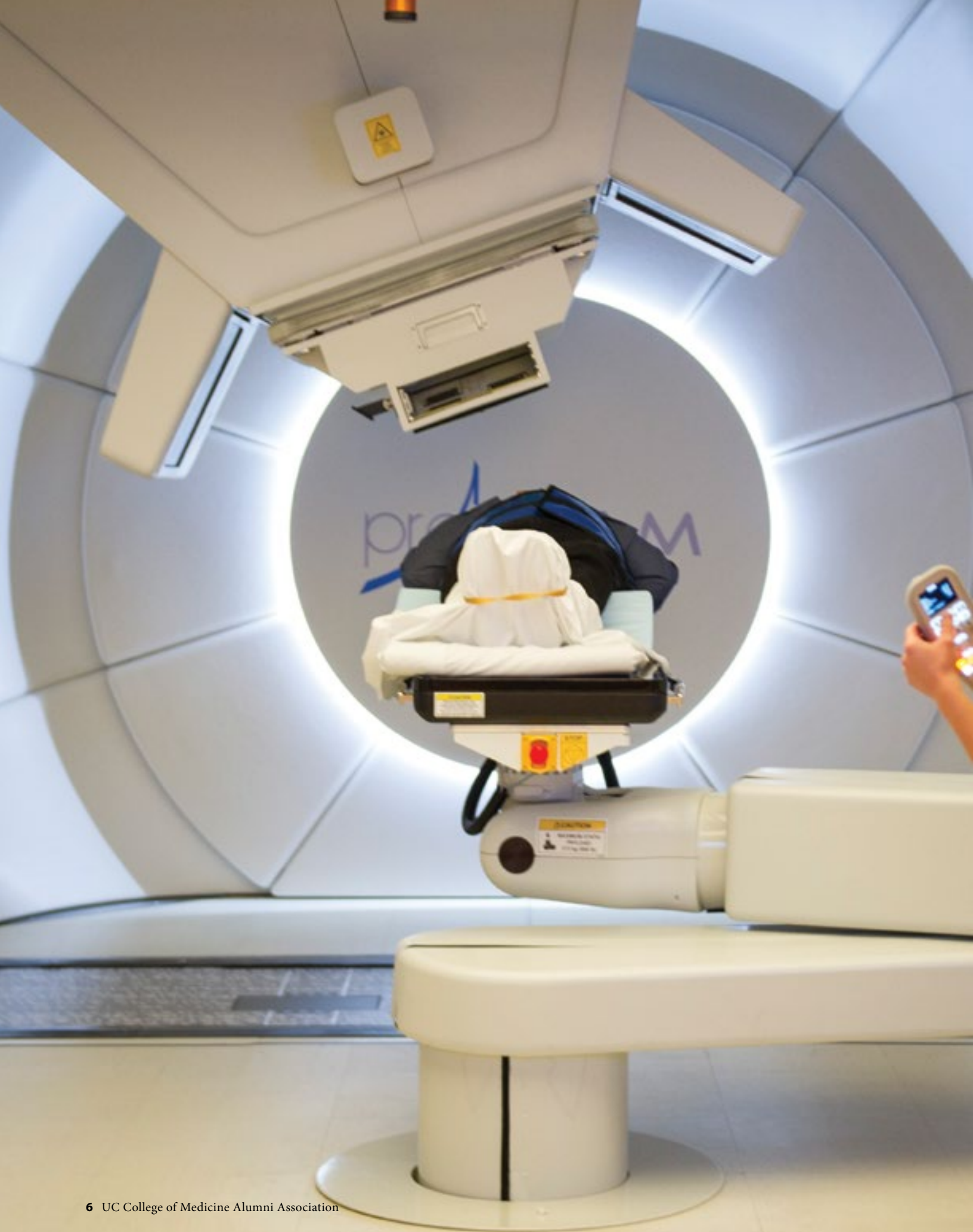
For the men and women who live and work on the International Space Station, the absence of gravity has an impact on human physiology and the practice of medicine.

Charles Doarn, a professor of Family and Community Medicine and a special assistant to the NASA Chief Health and Medical Officer, recently worked with senior physicians

and scientists to develop the fourth edition of *Space Physiology and Medicine: From Evidence to Practice*.

Space medicine is an extension of all the disciplines taught to UC medical students in basic sciences and clinical practice, says Doarn, and the text is full of evidence on the environment of space, systems to support humans, the physiological impact on human systems and the delivery of medical care in space. The book highlights what we have learned over the past 60 years, and the paradigm shift in medicine is directly related to the work done in this extreme environment. ■







Proton Therapy

Positively-charged hydrogen ions, accelerated to approximately two-thirds the speed of light in a 90-ton cyclotron.

It sounds like science fiction, but in reality, it's a novel cancer therapy now helping patients far and wide thanks to a collaboration between Cincinnati Children's Hospital Medical Center and UC Health.

The Proton Therapy Center will help hundreds of adult and pediatric patients with cancer yearly, train future radiation oncologists and serve as a site hosting the only dedicated research gantry in the world. (A gantry is a treatment room with a moveable beam.)

The facility—one of only 25 of its kind in the U.S.—opened officially in August 2016 and has been steadily gaining momentum ever since.

"The center is one of the most technologically advanced cancer facilities in existence," says director of the facility John Breneman, MD, professor emeritus of radiation oncology and neurosurgery, as well as chief of pediatric radiotherapy at Cincinnati Children's and a member of the UC Cancer Institute.

Proton therapy is used for certain cancers and lymphomas, delivering radiation treatment to a tumor area with remarkable precision, sparing healthy tissues. Magnetic and electrical fields guide protons to the tumor site, propelled with just enough energy to reach a precise point in the tumor and then stop before they can harm nearby, uninvolved tissue.

Research at the facility, located on Cincinnati Children's Liberty Campus, will include basic biological studies to better understand exactly how protons kill cancer cells; applied research and development for evaluating imaging methods, computer-targeting technologies and patient positioning techniques; and translational research to develop and refine other treatments that can augment proton therapy.

"This facility, together with the expertise of the faculty of the UC College of Medicine and Cincinnati Children's, will give patients in our region access to a level of cancer care available in only a handful of locations around the world," Breneman says. ■

Ready When You Need Them

Emergency Medicine in the Community

Whether it's treating tennis players, resuscitating racers, or protecting presidential candidates, chances are if it happens in Greater Cincinnati, there's someone from UC Emergency Medicine on the scene training or ready to serve.

Art Pancioli, MD, Richard C. Levy Chair and Professor of the UC Department of Emergency Medicine, describes the department's work in the community as far-reaching and showing up in many unexpected places in and around the region. "But you'd like us to show up, because when you need us, we'll already be there."

BY BILL BANGERT

Ride-Along Residents Boost First Response Tactics

THE DIVISION of Emergency Medical Services (EMS) was created by the Department of Emergency Medicine in late 2001 following 9/11. The initial core of the division was the Special Operations Institute (SOI), created to help first responders prepare for any future attacks.

“Education, medical support and community service are the three primary missions of the Division of EMS,” says Donald Locasto, MD, associate professor and head of the EMS Medical Direction subdivision in the UC EMS Division and director of the SOI. “The division’s faculty members provide a unique teaching opportunity for EMS first responders, emergency medicine residents and

medical students, all while providing an essential community service.”

UC’s Division of EMS works with 46 departments in the region, which in turn serve over 600,000 people. Across the State of Ohio, every fire department, emergency service and EMS training organization requires a physician medical director to oversee educational offerings and the medical care provided by these entities. Last year, more than 26,000 hours were provided by UC faculty and staff as part of these community service programs.

The Division of EMS has 14 participating faculty members, 43 residents, six staff and three EMS fellows who collec-

tively act as a well-connected extension of the Emergency Medicine Department. One of the key elements of this is the training of EMS providers and emergency medicine physicians.

“It is important that emergency medicine residents in training know and understand the role of EMS in the medical care continuum,” says Locasto. “The first three years of resident education include an important facet of EMS education.”

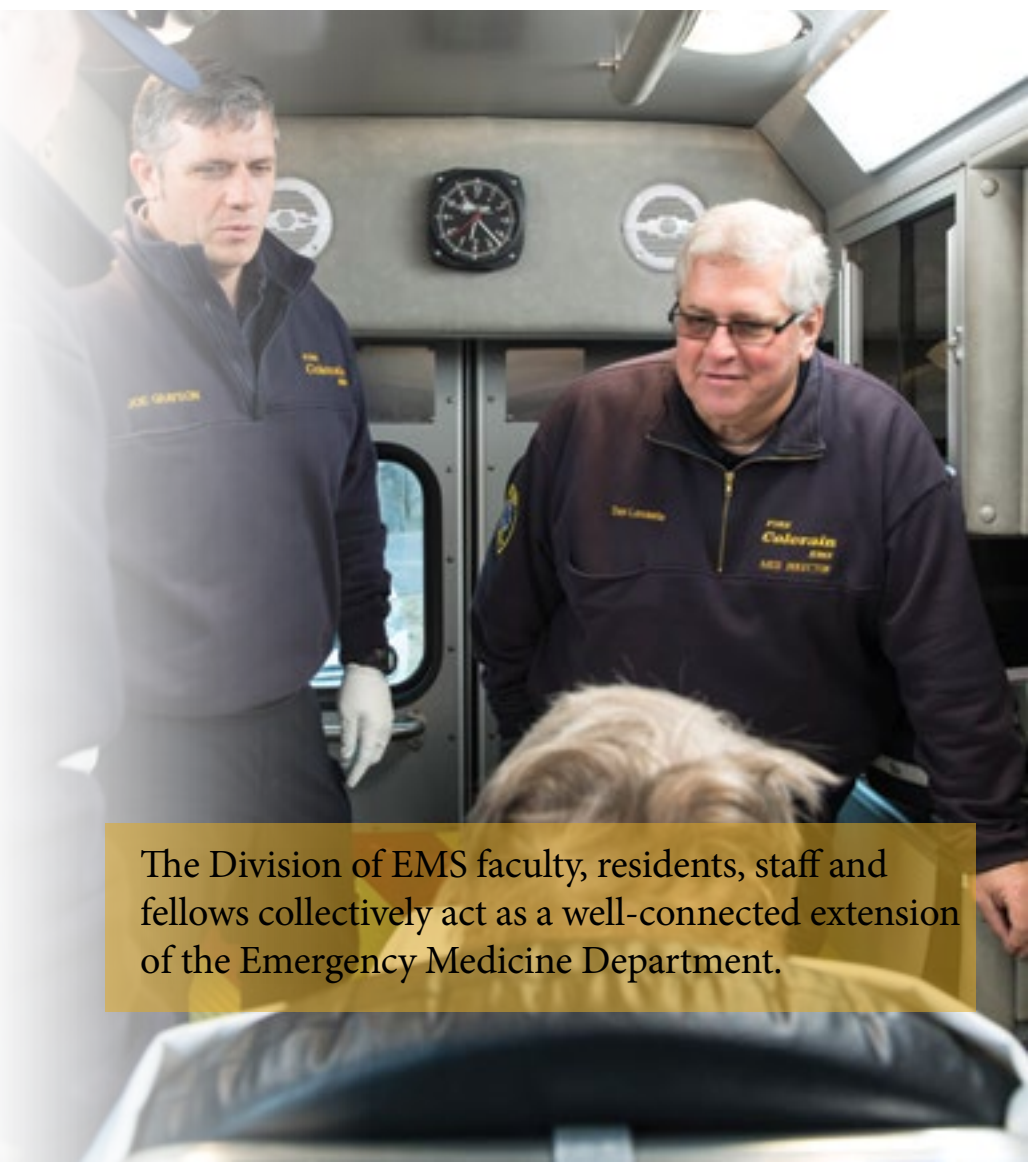
First-year residents are required to ride along with the Cincinnati Fire Department to see patient care being provided in the field. In the second year, the resident physician focuses on providing care in the field as a helicopter EMS flight physician. In year three, the resident provides medical control for the EMS units taking patients to the University of Cincinnati Medical Center Emergency Department.

WHERE ELSE CAN YOU FIND UC EM?

SWAT Support

SWAT teams are on the front lines of some of the most dangerous situations law enforcement officers face. A large number of UC EMS attending physicians and resident physicians train side-by-side with three of the region’s tactical teams, giving those teams a layer of safety and support.

“There are many advantages to having emergency room physicians attached to our SWAT Team,” says Lieutenant Mark Vennemeier, Tactical Coordination Unit/SWAT coordinator for the Cincinnati Police Department. “They accompany us on all high-risk search warrants and respond to hostage/barricaded incidents. This gives the SWAT officers peace of mind knowing that if they or a civilian suffer a life-threatening injury, an emergency department doctor is literally a few seconds away. As you know, seconds count.”



The Division of EMS faculty, residents, staff and fellows collectively act as a well-connected extension of the Emergency Medicine Department.

From Tennis Pros to Weekend Warriors, EMS is on the Scene

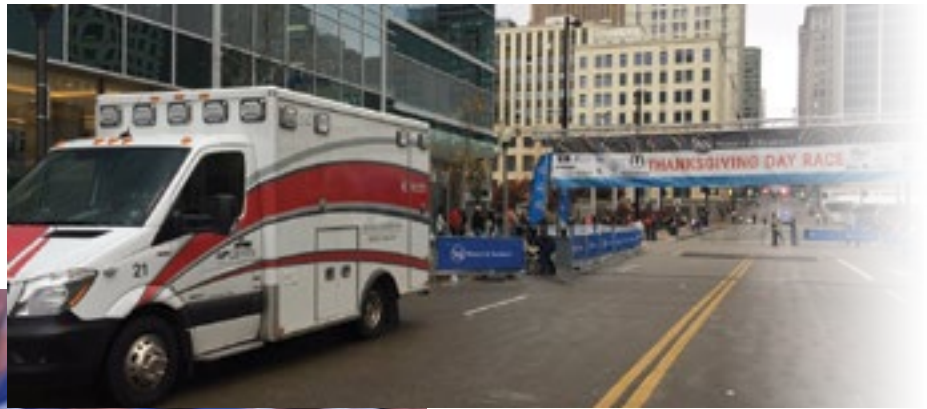
ANYTIME YOU GATHER thousands of people together for an event, there will almost always be a need for medical assistance. Treatment and movement of patients at a large public event environment is much different than in a normal prehospital setting. The EMS Division has established specialized crews with paramedics and physicians to respond to these types of emergencies.

Dustin LeBlanc, MD, assistant professor of emergency medicine, is the medical director for special event medicine for UC Mobile Care, which includes overseeing medical direction for the Western & Southern ATP/WTA tennis tournament in Mason, Ohio, as well as Cincinnati's Queen Bee Half Marathon and Thanksgiving Day race, among others.

"I help coordinate coverage for mass gatherings where UC Health is a sponsor or medical provider," he says. "Our Mobile Care event medics not only cover all UC sporting events, but also US Bank Arena events and many other large events. I served on the medical direction team for the World Choir Games a few years back and have been on the medical direction team for the Flying Pig Marathon for the past several years."

He recalls a memorable Thanksgiv-

ing Day Race in 2015, "where we had a cardiac arrest at the finish line," says LeBlanc. "Along with some helpful bystanders who happened to be medics, we ran a successful resuscitation in the field, achieving return of spontaneous circulation and normal mental function in the patient prior to transport to UC where he had additional care. That man was able to have the holidays with his family that year and run the race the following year because we were there, completely prepared."



"That man was able to have the holidays with his family that year and run the race the following year because we were there, completely prepared."

WHERE ELSE CAN YOU FIND UC EM?

Dignitary Protection

Working directly with the U.S. Secret Service—Cincinnati field office, anytime a protected dignitary comes to the region, the EMS Division assigns a physician as part of the protective detail. This service provides a physician who functions within the security perimeter to deliver medical care to the dignitaries being protected and Secret Service agents as needed. This subdivision has worked over 80 missions during the last 12 years.

Pancioli says emergency medicine physicians and secret service agents have similar thought processes. "What could go wrong? What might go wrong? Where's the threat, where could it come from?" he says. "It's fascinating to watch the agents as they approach areas of challenge."

Earthquakes, Wildfires, Flu: No Two Disasters are Alike

ANOTHER AREA where UC's emergency medicine experts excel at quick response and treatment in the field is in disaster relief, as well as urban search and rescue.

"A disaster is defined as that which is negative and which overwhelms the system's native state or capability," says Panioli. While some disasters like hurricanes and to a certain degree tornadoes, come with advance notice, others strike without warning. "A disaster could be as simple as an unbelievable spike in flu when you just have no capacity to see the patients."

Since the early 1990s, Edward "Mel" Otten, MD, professor in the Department of Emergency Medicine, has been a member of the Disaster Medical Assistance Team, a group of professional medical personnel who can provide rapid response medical care during a disaster.

"Hurricane Sandy was the last big one," says Otten. "We were taking care of people in a gymnasium. I also put up a clinic in a handball court, and we were seeing patients there. They were just so happy that we were even there helping them out.

They couldn't believe that we came all the way from Cincinnati to help them."

Otten says he likes the uncomplicated nature of providing medical care in disaster situations.

"I've been to hurricanes, earthquakes, wildfires and I've been to war a couple of times," Otten says. "To me it's really basic medicine. You've got a stethoscope and a flashlight and you've got to use your brain and there's no MRI or CT scanners or operating rooms. In a disaster, those people are just happy to see you there." ■

Public Service Campaigns: Stop the Bleed

Tourniquets are one of the oldest forms of first aid dating back to the civil war, and still one of the most effective in a trauma situation. The Department of Emergency Medicine and the Department of Surgery along with UC Health donated \$15,000 to purchase 650 bleeding control kits for Cincinnati police officers to use in reducing deaths, as part of a nationwide Stop the Bleed initiative launched by the Department of Homeland Security.

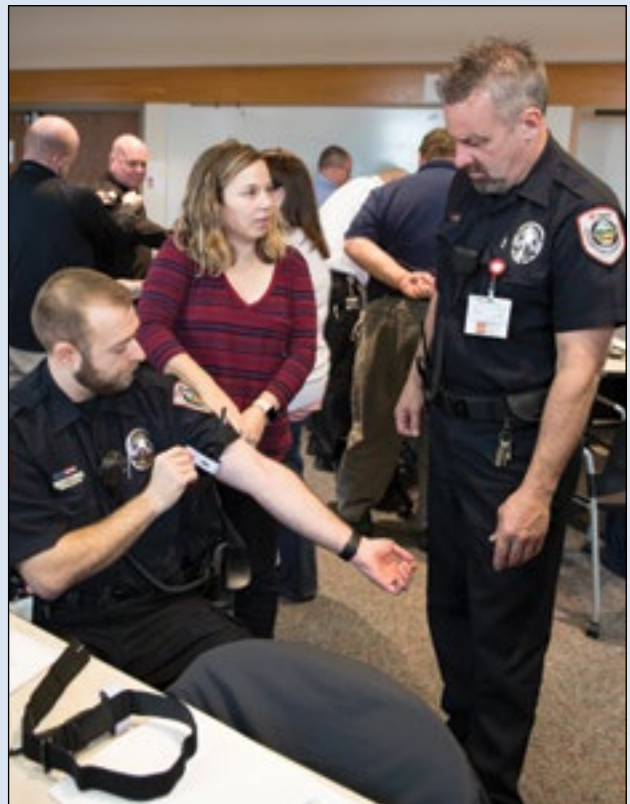
"Uncontrolled bleeding is the leading cause of preventable death in trauma cases," says Otten.

The National Trauma Institute reports that a person can die in just minutes if bleeding is not controlled. This loss of life accounts for approximately 35 percent of deaths before victims arrive at a hospital.

The bleeding control kits include a military grade tourniquet, vinyl gloves, dressing and gauze packing. UC teams offer training for first responders and others to underscore the value of early control of active bleeding while also instructing how to apply a tourniquet and achieve proficiency through

UC teams offer training for first responders and others to underscore the value of early control of active bleeding while also instructing how to apply a tourniquet and achieve proficiency through practice.

practice. The hope of UC and UC Health is that the training will extend into communities, schools and workplaces to educate anyone who can help in an emergency while waiting for medical personnel to arrive.



Stephanie Streit, MD, assists first responders during a UC Health Stop the Bleed training.



Inventive TEENS

Award-winning biomedical high school students spend a day shadowing HIV/AIDS research

LAST DECEMBER, a group of students at Lakota East High School in Liberty Township, Ohio, winning competitions and national acclaim for their proposed cure for HIV/AIDS was invited to the labs of Carl Fichtenbaum, MD, professor of infectious diseases in the Department of Internal Medicine, to discuss HIV/AIDS research. The students toured inside the research pharmacy, retrovirus lab and other facilities where dozens of HIV/AIDS clinical research studies are carried out year-round.

Lakota East High School students Sam Pannek, Lexie Adams, Maddox Linneman and Chase Harris are part of the Butler Tech biomedical sciences program who took their project to compete in the Health Occupations Students of America (HOSA) competition.

It was Pannek who first took the idea to a teacher and was encouraged to put a project team together for HOSA. Pannek recruited Linneman and Harris to help present his idea for the protein pump, which the team proposed could be made with a 3-D printer. Assisting were juniors Lexie Adams and Paige Bentley.

The Lakota team's research centers on the "Berlin Patient," a man with HIV who later developed leukemia. To treat the leukemia, the Berlin Patient received bone marrow transplants



Sam Pannek received media attention for his HIV "cure" including being interviewed during his UC visit by Ann Thompson, WVXU-FM, Cincinnati.



Amy Dill, PharmD, a UC Health pharmacist, far left, explains medication dosages in the research pharmacy to Lakota East High School students Lexie Adams, Maddox Linneman, Sam Pannek and Chase Harris.

from a donor with a genetic mutation that prevents cells from becoming infected with HIV. That beneficial mutation transferred to the Berlin Patient, whose doctors say has been functionally cured of his HIV infection. The Lakota student team theorized that a continuous infusion of the genetically modified protein could help cure other patients as well, delivered via a cost-effective therapy similar to an insulin pump.

The team placed fourth in the HOSA international competition in the medical innovation category.

Fichtenbaum first learned of the students' work after being contacted by a reporter to check the validity of Pannek's proposal. He was impressed with the work and thought these high school students had put into their proposal, and invited them to his lab to learn about ongoing HIV/AIDS research at UC.

Below: Carl Fichtenbaum, MD, speaks with the students at his research clinic at Holmes Hospital. Fichtenbaum is a lead researcher for several HIV/AIDS trials at UC.

"I was ecstatic about these bright and interested young people in our community and trying to solve a very important problem in the world," says Fichtenbaum.

He went over the students' presentation with them, pointing to a few flaws in their theory, but he encouraged them to keep at it. The students have a partial patent and intend to rework their plan to include similar research and compete again next year.

Approximately 36.7 million people globally are living with HIV, and over 1 million people die from AIDS-related causes annually, according to 2015 data from the World Health Organization. While there are many approved antiretroviral treatments to control and prevent transmission of HIV, only about half of those with the virus have access to testing and treatment. The team from Lakota hopes to change that.

Meanwhile Pannek, 17, who gained attention from USA Today and medical news outlets in addition to local media, has been accepted to UC and has his sights set squarely on medical school. He will be working with Fichtenbaum's research group in the Summer 2017 before he matriculates to UC. ■



FINDING HOME IN THE LAB

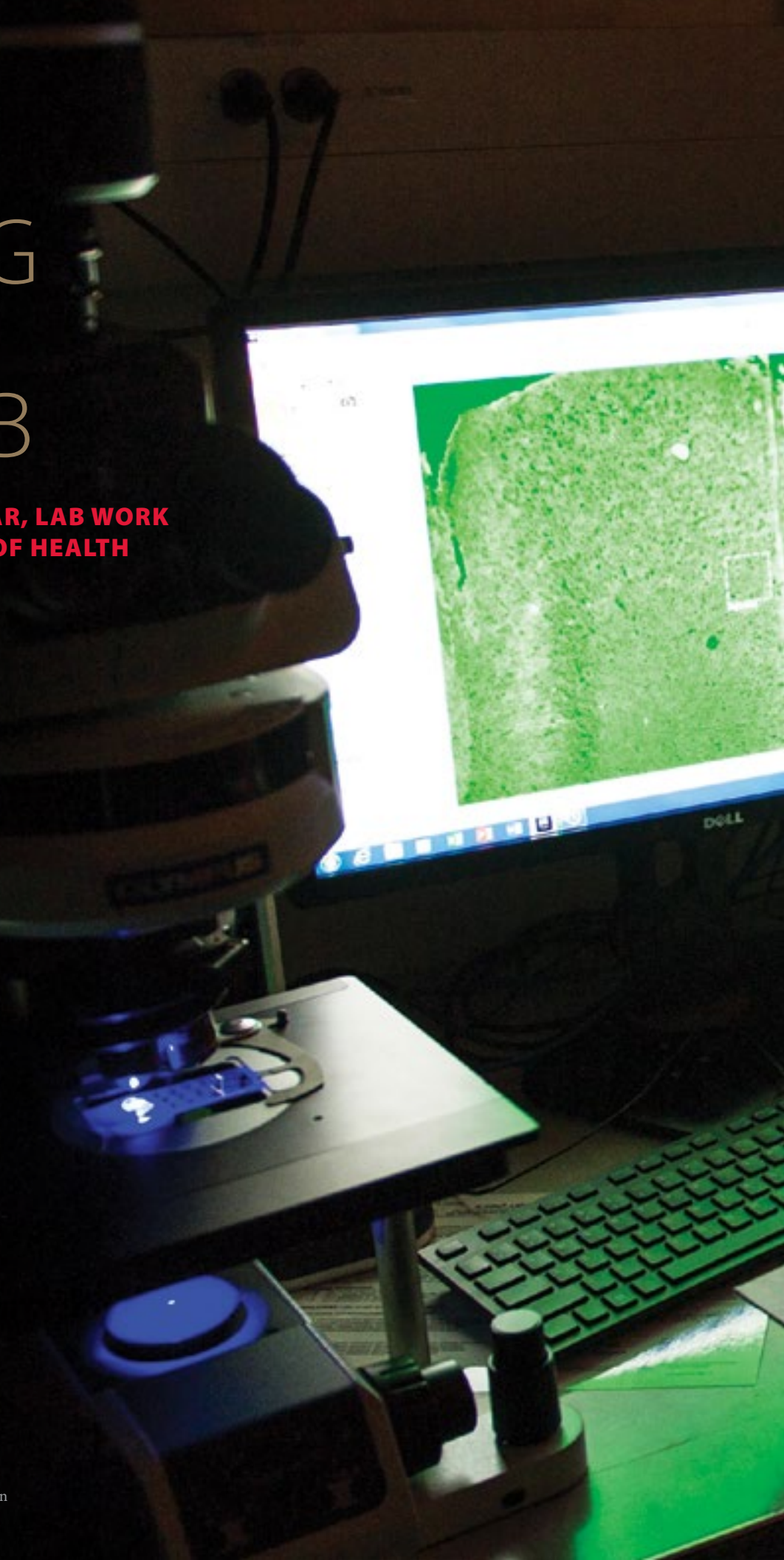
FOR FULBRIGHT SCHOLAR, LAB WORK UNLOCKS THE SECRETS OF HEALTH

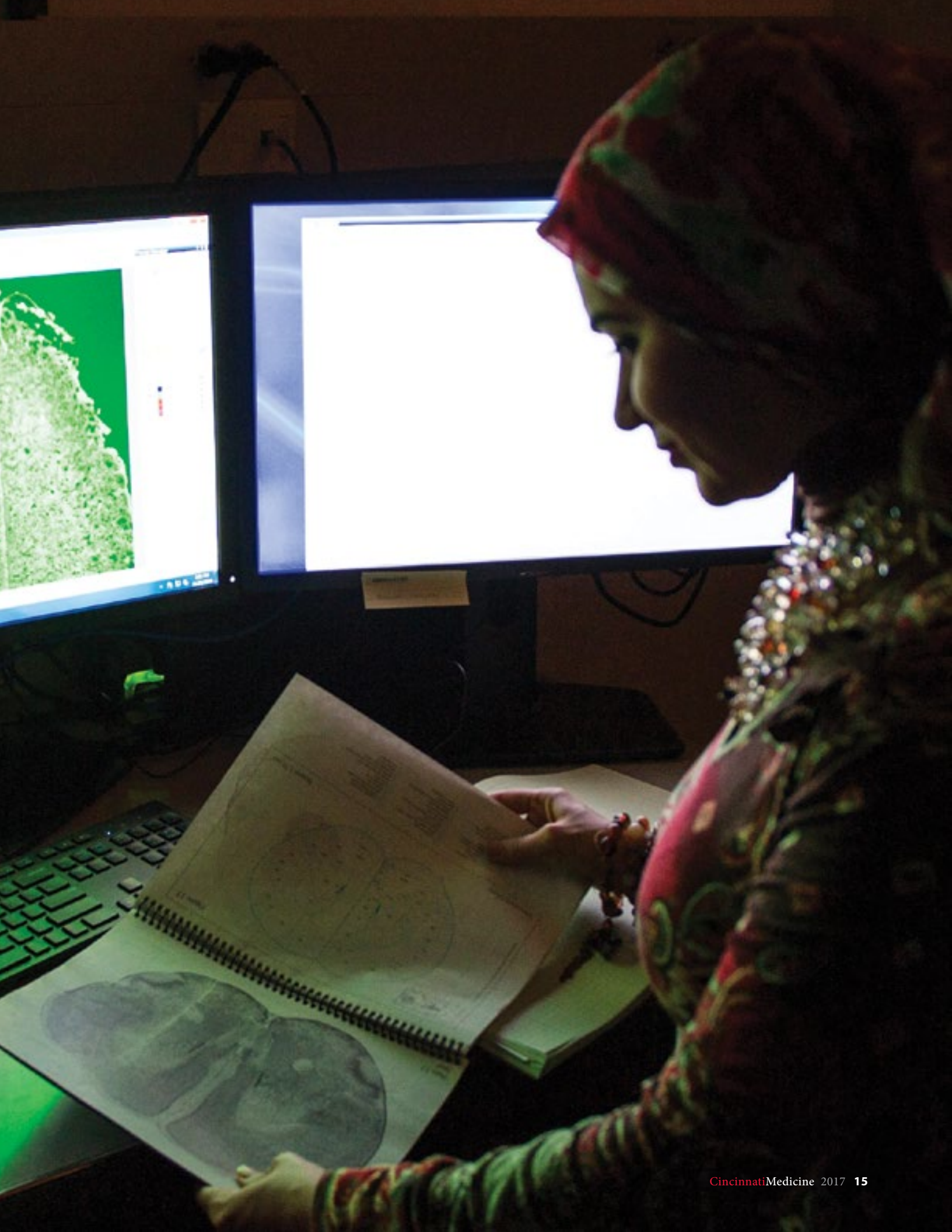
BY CEDRIC RICKS

Shaimaa Ibrahim, a visiting Fulbright scholar from Egypt, relies on some pretty solid role models as she charts her career path.

Her mother, a pharmacist and business owner for decades in Cairo, encouraged Ibrahim and her siblings to follow their passion whether it involved travel, dedication to patient care or scientific discovery through research. Though Ibrahim's father passed away when she was very young, his work as an endocrinologist inspired Ibrahim's older brother to study medicine and ultimately to become a cardiologist. A second brother and an older sister became dentists.

Ibrahim, a doctoral student in pharmacology and cell biology at UC, watched their triumphs and challenges before deciding she too had a passion for science. She will receive her PhD degree from the Molecular, Cellular and Biochemical Pharmacology program next year and currently holds a graduate assistant position in the Department of Anesthesiology.





Working in a lab, Ibrahim feels the ability to help unlock the secrets to human health is what really excites her. While a graduate student in Egypt, Ibrahim had the chance to visit laboratories at Ohio State University and the University of the Pacific to study the stem cell theory of cancer and investigate the science behind amphetamine addiction.

Determination Despite Setbacks

Watching her older brother's determination to get into a very competitive interventional cardiology program is what motivated her as well. "He said to me, 'Never give up because even if the chance is not here now, it can be in the future.'" Abdelhamed is now an associate professor of cardiology at the Boonshoft School of Medicine at Wright State University, and another brother (Mohamed) is an associate professor

at Ohio State in the prosthodontics and implant dentistry department.

Ibrahim took the advice from her family to heart and was eager to follow in their footsteps, but she lasted only a month in a dentistry program before realizing she really enjoyed the chemistry that's integral to pharmacy. Ibrahim then went on to complete her undergraduate degree in pharmacy at Cairo University, tried her hand as a pharmacist for a few years and worked for the Egyptian Atomic Energy Authority as a research assistant before returning to school.

In 2009, Ibrahim won a U.S. Agency for International Development scholarship to come to the U.S. and pursue her PhD, but political unrest in Egypt made it impossible. "This was crushing my dream and I had to remain in Egypt for a while longer," she says.

In 2013, the political climate eased

long enough for Ibrahim to apply for a Fulbright scholarship and become one of five recipients in Egypt. She had the chance to study at one of five universities in the United States and decided on UC.

"It is a very unique university. I liked the College of Medicine and I think it is top-rated," says Ibrahim. "I also liked the relationship with Cincinnati Children's. I realized the pharmacology program at UC was very strong as was the medical school."

The Strength of Mentors and a Department 'Like Family'

Ibrahim says she sought out UC faculty researchers inside and outside of the pharmacology department, and was attracted by their scholarship. Much of her work has focused on finding ways to treat cocaine or amphetamine addiction and the use of steroids in easing chronic pain.

She looked to the research of investiga-



"Following the footsteps of my family made me eager to pursue my research career in parallel with helping patients."

tors such as Andrew Norman, PhD, professor in the Department of Pharmacology and Cell Biophysics, whose work on a potential immunotherapy for cocaine addiction netted a five-year \$2.5 million grant from the National Institute on Drug Abuse. Norman became one of her mentors and she has worked with him as well as in the laboratories of William Ball, PhD, professor emeritus of pharmacology, James Herman, PhD, Donald C. Harrison Professor of Psychiatry and Behavioral Neuroscience, Judith Strong, PhD, research associate professor of anesthesiology, and Jun-Ming Zhang, PhD, professor of anesthesiology.

“Dr. Zhang is an encouraging and supporting mentor who I learn a lot from everyday. His laboratory is exciting and always nurtures me. He encouraged me to apply for another Fulbright scholarship, which I was honored by being awarded another year [of Fulbright] after completing three years.”

With this mentoring and experience, Ibrahim was able to present research at a large neuroscience conference in November 2016, and now tutors incoming



Much of her studies have focused on finding ways to treat cocaine or amphetamine addiction and the use of steroids in easing chronic pain. Jun-Ming Zhang, PhD, professor of anesthesiology and vice chair of research is her thesis advisor.

students in pharmacology.

“As one of her faculty mentors in the lab, I would say that one thing I really admire about Shaimaa is her willingness to move halfway around the world to a different culture with a different language, in order to pursue her research career,” says Strong. “That requires a lot of courage, determination and grit. Perhaps a third to a half of the researchers I know are immigrants, and they bring such qualities to their work, enriching the field for all of us.”

Balancing Work, Family and Community in a New Place

“I didn’t come to the United States to live in a fancy place or for shopping, but for education,” says Ibrahim, now in her fourth year of graduate study as a Fulbright scholar. “I selected UC based on the education level and research its faculty

produces. My department is like a family. They are nice and compassionate, and the professors do their best to give us the information we will need for the future.”

Ibrahim says her studies at UC consume a lot, but not all her time. The single mom has an 8-year-old daughter, Noor.

“I try to find a balance between life at UC and mother life. The first couple of years it was hard to balance. It’s hard to come from another country to a new place and try to interact with people. You do need to have social life.”

Ibrahim says she finds time to volunteer with her daughter by participating in Project Downtown Cincinnati’s efforts to provide meals to homeless. She also is a regular volunteer at her daughter’s school, has assisted with a school science fair and been a judge at the Ohio State Fair for elementary, middle and high school students.

“I like to engage my daughter in charity work,” says Ibrahim. “I feel like we should be contributing to the community wherever we live.” ■



Ibrahim was eager to follow her brothers into the field of medicine. Pictured here (with her daughter Noor) are brothers Abdelhamed, at Wright State University, and Mohamed, at Ohio State University.

DISTINGUISHED

Each year the College of Medicine Alumni Association recognizes outstanding alumni through the Distinguished Alumni Awards. The award recognizes MD graduates of the University of Cincinnati

MAXINE PAPADAKIS, MD

Teaching and training residents and medical students has been a passion Maxine Papadakis, MD (Med '77), has enjoyed throughout her 40-year career in medicine. As a retired professor and former associate dean of students at the University of California, San Francisco (UCSF), Papadakis has touched the lives of countless young physicians as an overseer of the medical residency program.

She remains a practicing internist at the San Francisco Veterans Affairs Medical Center. Papadakis is a leading investigator in the field of professionalism and editor of the widely used medical textbook, *Current Medical Diagnosis and Treatment*. In a series of groundbreaking studies, Papadakis linked long-term outcomes important to patient care to performance of physicians during training, particularly in

regards to professional behaviors. She

worked closely with the Federation of State Licensing Boards to advance this

research. Papadakis also described the types of unprofessional behavior that are linked with disciplinary action, thus providing direction to the development of tools to address these behaviors.

Papadakis expanded her inquiry to include residents and worked closely with the American Board of Internal Medicine. She then turned her attention to catalyzing the educational community to identify best practices for remediation. She also has assessed the performance of medical students with protected disabilities, focusing on their "abilities." Papadakis is a member of the Ethics and Professionalism Committee of the American Board of Medical Specialties. She is the recipient of many teaching awards, including the UCSF Academic Senate Distinction in Teaching Award.

In 2010, Papadakis received the National Board of Medical Examiners' John P. Hubbard Award. This international award is given to individuals who have made outstanding contributions to the pursuit of excellence in the field of evaluation in medicine. Papadakis is also the recipient of the 2014 UCSF Chancellor's Award for Disability Service. To honor her 18 years of service when she stepped down from her position as the associate dean of students in 2016, the UCSF School of Medicine created the Maxine A. Papadakis, MD faculty award for professionalism and respect. Meanwhile, the UCSF Department of Medicine created the Maxine A. Papadakis, MD professionalism award for residents. ■



In a series of groundbreaking studies, Papadakis linked long-term outcomes important to patient care to performance of physicians during training, particularly in regards to professional behaviors.



ALUMNI AWARDS

College of Medicine for achievements in the areas of basic research, education, clinical care, health service administration, and public and/or civic duties.

N.A. MARK ESTES III, MD

For N.A. Mark Estes III, MD, it's all about the heart.

Since graduation from the College of Medicine nearly 40 years ago, Estes (Med '77) has trained at some of the nation's leading institutions—New England Deaconess Hospital for general medicine, New England Medical Center for cardiology and Massachusetts General Hospital for clinical cardiac electrophysiology—for a career that has touched the lives of thousands of heart patients.

As a clinician and clinical investigator, Estes says his research interests are in prediction and prevention of sudden cardiac death, cardiovascular disease and arrhythmias in athletes, and prevention and treatment of atrial fibrillation. Estes, director of the New England Cardiac Arrhythmia Center at Tufts Medical Center and a professor of medicine at Tufts University School of Medicine, has authored or co-authored eight books and more than 500 publications.

He's led studies to test the safety of drugs that treat ventricular tachycardia, determine the best therapies for treating ventricular arrhythmias and examine the effectiveness of various pacemaker systems and implantable defibrillators in heart patients. Estes serves on the

American Board of Internal Medicine Clinical Cardiac Electrophysiology Examination Writing Committee and on the International Board of Heart Rhythm Examiners Test Writing Committee.

He has multiple awards and honors, including the University of Pennsylvania Award of Merit, Moses Brown School Distinguished Achievement Award, Tufts University School of Medicine Teaching Award, the American Heart Association (AHA) Paul Dudley White Award (2009) and the Distinguished Leadership Award of the AHA (2010). Estes also has been recognized with the President's Award of the Heart Rhythm Society (2013), the Distinguished Achievement Award of the European Cardiac Arrhythmia Society (2014) and the AHA Distinguished Achievement Award (2014). ■



Since graduation, Estes has trained at some of the nation's leading institutions for a career that has touched the lives of thousands of heart patients.

Through the Lens of HISTORY

Philip Diller, MD, PhD, Fred Lazarus Jr. Professor and Chair of the Department of Family and Community Medicine, was named chair of the advisory board of the Winkler Center for the History of the Health Professions. A medical archive, library and exhibit facility, it is housed within the UC Libraries' Harrison Health Sciences Library.

What role does the Winkler Center play at UC?

The Winkler Center is the repository for the history of the Academic Health Center and its colleges. The resources of the center provide a lens to understand our current state by teaching the historical context. This is important because knowing our history can potentially help us avoid the same mistakes, or discover solutions to similar problems or be inspired by those who persisted against challenges.

What are some things about the Winkler Center that people might not know?

The primary collection of medical books from 1800 to 1900 is one of the best in the country. Many of these books came from different physicians and from early libraries. Before journals (typically 1850) there were single topic pamphlets printed. We likely have the best collection in the country of original pamphlets.

The lore is that some of the early books (1800-1850) were originally owned by some of our early teachers of the Medical College of Ohio and particularly Daniel Drake himself. Drake donated 50 of his books to the Cincinnati Medical Library Association in 1851 to get it started, and I suspect they are in our collection, but not yet cataloged or identified.

How did you develop your passion for medical history?

During graduate school, I took a study break one afternoon and browsing the stacks I saw a first edition copy of William Osler's "The Principles and Practice of Medicine" inscribed to John Shaw Billings (one of our medical school's most notable alumni). Next to that was Harvey Cushing's Pulitzer Prize-winning biography, "The Life of Sir William Osler." Reading the Osler biography lit the fire in me for medical history. I came to see that physicians from previous generations shared their lessons about doctoring and living the life of a doctor—lessons still relevant today. I have confirmed this over and over again in my career.



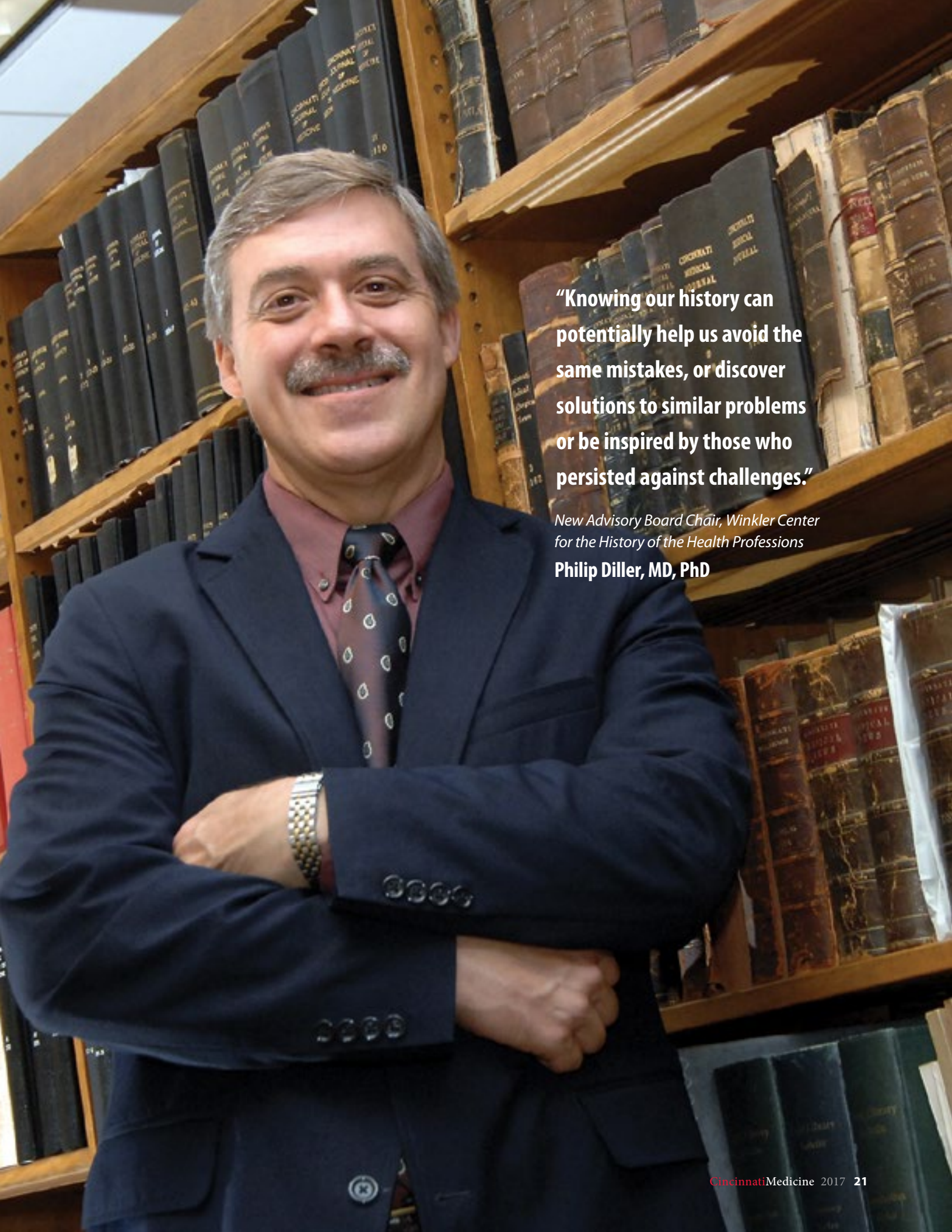
What impresses you about the mark the University of Cincinnati has made on local and national health history?

There are many firsts in our UC history and we can be proud of that. Drake's essays on medical education calling for higher standards presaged the Flexner report by 80 years. John Shaw Billings in 1879 created "Index Medicus," a monthly comprehensive bibliographic index of scientific journal articles focusing on medical science fields. Scientists from all over the world relied on this resource for 125 years before the internet and PubMed came into being.

One mark that is often overlooked or taken for granted: the impact an academic health center has on preparing the workforce that serves the community. UC's prime products impacting the health of the community are the graduates of our colleges and the graduates of the residency programs at our teaching hospitals. Imagine a Cincinnati where these individuals had never become part of the fabric of our community. Health leaders of our institutions who donate time and expertise sitting on community boards frequently have ties to our local universities. Many of these same leaders have a national presence and shape the national discourse on health, research and education. We often and rightfully so recognize the individual, but as we look deeper we come to also recognize strong formative experiences an institution had on shaping that individual. ■

FAVORITE ITEM IN THE WINKLER CENTER

The original diploma of Daniel Drake, hand written by his preceptor William Goforth in 1805, is priceless. In his remarks upon the founding of the Cincinnati Medical Library Association in 1851, Drake described to his listeners details of his early program of learning medicine under Dr. Goforth and then summed it up saying, "Such was the beginning of medical education in Cincinnati. I say beginning, for I was its first pupil."

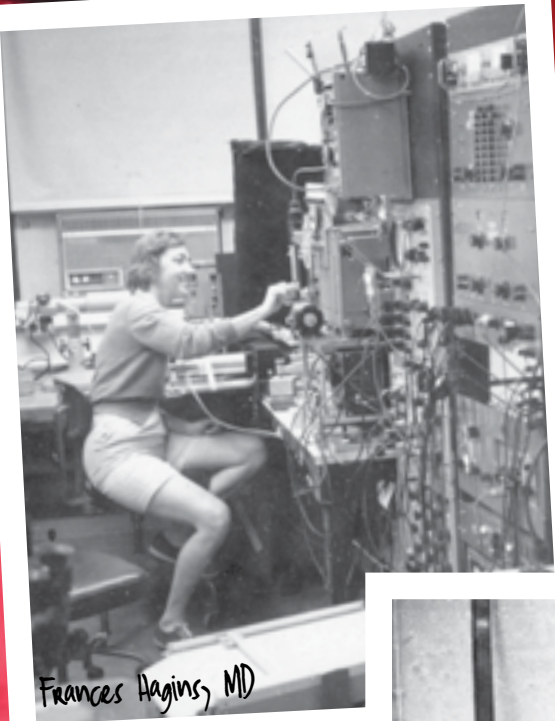


“Knowing our history can potentially help us avoid the same mistakes, or discover solutions to similar problems or be inspired by those who persisted against challenges.”

New Advisory Board Chair, Winkler Center for the History of the Health Professions

Philip Diller, MD, PhD

Groundbreaking Couple Left Legacy to Boost Scholarship Gifts at UC



Frances Hagins, MD



William Hagins, MD

Throughout a lifetime filled with extraordinary scientific and medical achievements, both
Frances and William Hagins
believed strongly in
the power of preparing a path for future generations.



Frances Hagin, MD (Med '51)

**THE HAGINS FAMILY MATCHING GIFT PROGRAM FOR SCHOLARSHIPS
AT THE UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE**

UC alumna Frances Hagins, MD (Med '51), and her husband William Hagins, MD, dedicated their professional and personal lives to the advancement of science and medicine. Throughout a lifetime filled with extraordinary scientific and medical achievements, both Frances and William believed strongly in the power of preparing a path for future generations.

Frances and William Hagins were a groundbreaking couple in many ways. Frances was one of only six female MD graduates at UC in 1951 (also earning her undergraduate degree at UC). During her career as both a faculty member at Johns Hopkins and later as a physician at the Washington, D.C. VA Medical Center, Frances used her UC education and training to make a significant impact in the lives of her patients and students.

During his lifetime, William served as a researcher with the National Institutes of Health, seeking to understand the chemical building blocks of the human eye, making a series of groundbreaking discoveries in the process.

Frances and William Hagins served as lifelong friends and mentors for many young medical students and doctors. Given their exceptional focus on building lives, conducting research and making a difference for others in ways large and small, it is no surprise that their enduring vision and generosity of spirit continues to this day.

In 2016, UC College of Medicine established the Hagins Family Matching Gift Program for Scholarships using funds from the generous estate gift William and Frances left the college.

The Hagins fund allows donors to get

a dollar-for-dollar match for scholarships in the College of Medicine.

Scholarships help to attract the best and brightest students to the College of Medicine, grow a diverse student body and support students who face financial obstacles to obtaining a world-class education. Today's gifts to scholarships help pave the way for future generations of medical professionals. ■

The Hagins fund allows donors to get a dollar-for-dollar match for scholarships in the College of Medicine.

Having An Impact

The establishment of the Class of 1966 Scholarship is one example of the impact of the Hagins Matching Fund. Richard Welling, MD (Med '66), created the scholarship for his class and launched a fundraising campaign, featuring the special opportunity for a one-for-one match to maximize the class's impact. He was also inspired to start the scholarship after seeing that the Class of '61 recently endowed their scholarship and are annually supporting needy students.

"It came about at our 50th reunion. We noticed the Class of '61 did this, and thought it was a nice idea and so it was inspired at the reunion to start talking about this," says Welling. "The matching fund was able to help forge this scholarship fund." Welling says he would love to see more classmates from 1966 contribute to the cause.

"I see it as an opportunity for our class to establish (a scholarship) and support future medical students with strong academic credentials who might need the financial support."

Welling, now retired, served as the chairman of the Department of Surgery, as well as director of both the General and Vascular Surgery Residency Programs at TriHealth for 25 years. He has been a leading surgeon in Cincinnati for more than 40 years. ■

College of Medicine Scholarship Levels Available for Matching Gifts:

Amount	Level
\$1 Million	Visionary Scholarship
\$500,000	Champion Scholarship
\$250,000	Benefactor Scholarship
\$100,000	Founder Scholarship

When you endow a scholarship through this matching gift program the college will ensure your gift will be matched dollar for dollar with funds established by the Hagins estate. Therefore should you make a gift of \$250,000 to establish your scholarship, the matching program will double your gift, creating a \$500,000 Champion Scholarship in your name.

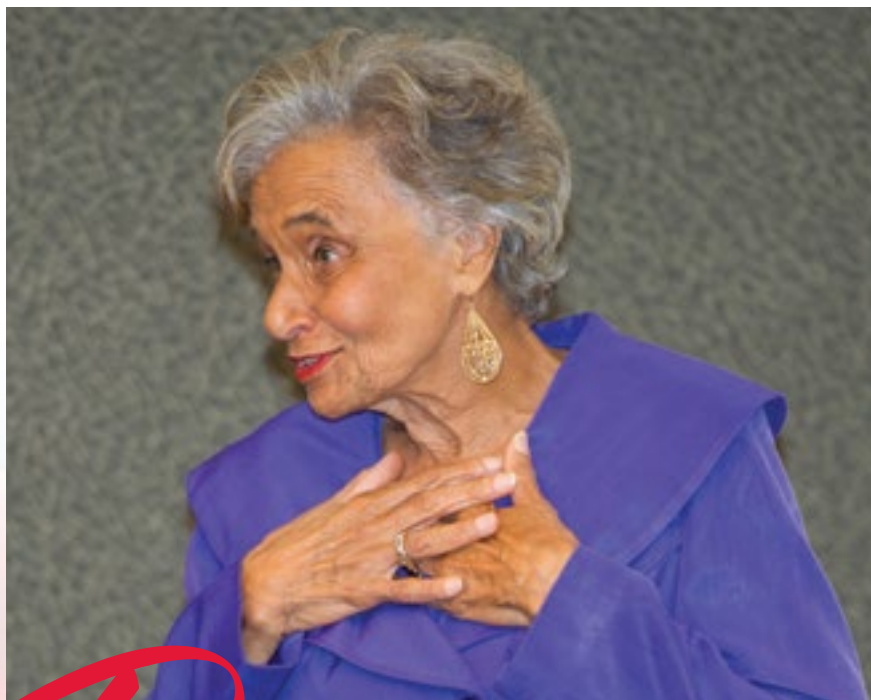
Marilyn Hughes Gaston, MD

(Med '64), was honored at a luncheon by the Center for Clinical and Translational Science and Training for her pioneering work in sickle cell disease.

While working at the National Institutes of Health, Gaston published the results of a sickle cell disease study that led to a nationwide screening program to test newborns for immediate treatment. The study found that complications of sickle cell disease could be avoided with early treatment and that measure became a central policy of the U.S. Public Health Service.

Gaston was the first black woman to direct a major public health service bureau in the U.S. and the second black woman to achieve the position of assistant surgeon general and rank of rear admiral in the U.S. Public Health Service. Gaston is a 1997 Daniel Drake Medalist, and continues to honor her success with the **MARILYN HUGHES GASTON SCHOLARS PROGRAM**, founded to provide financial assistance to minority students interested in the medical field. ■

MORE ON GASTON AT
<http://msa.maryland.gov/msa/educ/exhibits/womenshall/html/gaston.html>



P. Sickle Cell Pioneer

Marilyn Hughes Gaston, MD (Med '64)



Marilyn Gaston, MD (Med '64), second from right, with (from left), Darcey Thornton, MD (Med '05), Ellis Green (Gaston awardee and first-year student), Melanie Wilson (fourth-year student) and Daniel Bowles (Gaston awardee and second-year student).

ClassNotes

Exciting news or appointments to share? Submit your updates today at med.uc.edu/alumni/updateinfo

1960s

Donald Bryan, MD `67

Received the American College of Obstetricians and Gynecologists Outstanding District Service Award

1970s

Sydney Sewall, MD `75

Retired from Kennebec Pediatrics

Steven Seifert, MD `76

Appointed as the editor-in-chief of *Clinical Toxicology*

1980s

James Eppley, MD `82

Named medical director of Behavioral Health Institutes at Mercy Health

Stephan Grupp, MD, PhD `87

Named Chief of the Section of Cellular Therapy and Transplant in the Division of Oncology at Children's Hospital of Philadelphia

Edward Melian, MD `88

Received the Chicago Radiological Society's 2017 Distinguished Service Award

William Pease, MD `81

Elected president-elect of American Association of Neuromuscular and Electrodiagnostic Medicine

Lakshmi Kode Sammarco, MD `88

Honored as the 2017 Zonta Club of Cincinnati Marian de Forest Award recipient

Jeffrey Towbin, MD `82

Named co-director of the Heart Institute at Le Bonheur Children's Hospital, chief of Cardiology at St. Jude Children's Research Hospital and chief of Pediatric Cardiology at the University of Tennessee Health Science Center

1990s

Michael Kelly, MD, PhD `93

Named Chief Research Officer for Akron Children's Hospital Rebecca D. Considine Research Institute

Robert Oster, PhD `95

Appointed full professor in Division of Preventive Medicine, Department of Medicine, University of Alabama at Birmingham

Dennis Sands, MD `95

Named chief medical officer for OSF Saint Anthony's Health Center

2000s

Jack Kehl III, MD `11

Joined UPS Regional Surgical Specialists

Crystal Icenhour, PhD `02

Elected chair for Virginia Bio

Mark William, MD, PhD `02

Released gospel music CD "When a Man Worships" ■

Boston ALUMNI CHAPTER

Dean William Ball and IvaDean Lair—at center, below flag—visit with UC College of Medicine Boston Alumni Chapter in 2015.



IN MEMORIAM: John Hutton, MD

Passionate. Smart. Supportive. Admired. Inquisitive. Insightful.

These were just a few of the adjectives used by colleagues to describe John Hutton, MD, the College of Medicine's third-longest tenured dean, who passed away on June 19, 2016. He was 79 and had been diagnosed in March with amyotrophic lateral sclerosis (ALS).

Hutton served as the 42nd dean of the College of Medicine from 1987 until 2002.

Hutton was raised in Ashland, Kentucky, attended Harvard College and was a graduate fellow at Rockefeller University for two years before entering Harvard Medical School, where he graduated in 1964. Hutton completed his internship at Massachusetts General Hospital, was a staff associate at the National Heart Institute for two years and then completed a residency at the University of Kentucky Medical Center. He also was on staff at the Jackson Laboratory and Roches Institute of Molecular Biology before joining the faculty of the University of Kentucky School of Medicine in 1971. Hutton remained in Lexington until 1980, rising to professor and vice chair of the Department of Medicine. He also spent two years as acting chair of the Department of Medicine.

From 1980 to 1984 Hutton served as professor of medicine and biochemistry and director of the division of hematology at the University of Texas Health Science Center at San Antonio. He also was the associate chief of staff for research and development at the Audie L. Murphy Veterans Affairs Hospital in San Antonio.

In 1984 he was recruited to Cincinnati by William Schubert, MD, then president of Cincinnati Children's, to become the Albert B. Sabin Professor of Pediatrics. He later was named vice chairman of basic science research.

Hutton stepped into the dean's position

on Aug. 1, 1987, inheriting a school budget of \$104 million and just over \$30 million in annual research funding. By the time he left, the college had broken the \$100 million mark in research funding, fulfilling his goal of turning the college into a medical research powerhouse.

Hutton served as dean until June 2002. At the time, he was one of the five longest-tenured medical school deans in the country. He returned to research at Cincinnati Children's. He focused his efforts on bioinformatics and served as the principal investigator of a research

grant awarded to UC by the National Library of Medicine to develop Integrated Advanced Information Management Systems (the IAIMS award). Hutton continued to author numerous scientific papers, served as a member and chair of the National Institutes of Health Biochemistry Study Section, and received awards for distinguished service from both the American Society of Clinical Investigation and the American Society of Hematology.

In 2003 he received the Daniel Drake Medal. The award was created in 1985 by Dean Robert Daniels, MD, as part of a



"John was one of our best deans. He was always trying to help research and make things work. He was passionate about having a good medical center. He always told you exactly why he was making his decision. I won some and lost some with him. But whenever I lost, I never got mad at him because he always had good rationale for things. He was a special person all the way around. He was one of a kind."

Jerry Lingrel, PhD, distinguished research professor of the Department of Molecular Genetics, Microbiology and Biochemistry.

year-long tribute for the bicentennial of Drake's birth. After a hiatus in 1986, Hutton as dean made the award a part of the college's annual Honors Day celebration and established the annual Drake Dinner honoring the latest recipients. In 1988, Hutton established two distinct categories for honorees; one for distinguished contributions to medical research while the second lauds those for excel-

lence as a clinician-teacher. Hutton also broadened the award's eligibility from only current faculty to living College alumni and residency graduates.

Hutton continued his work even after being diagnosed with ALS. "He was still coming in to teach medical students every week, meeting with coworkers in the Division of Biomedical Informatics and other collaborators, and leaving

misdirected mail and/or supportive Post-it notes in my cubicle, editorial finishing touches on a new textbook concluding only a few weeks ago," his son, John Hutton, MD, said after his father's death.

Hutton is survived by his wife, Mary Ellyn, three children, Becky, John and Elizabeth, and seven grandchildren. ■

Remembering John Hutton

"I recall a dinner during our job interview with John where he brought his daughter, Elizabeth, who was 5 years old then. Although we had not even thought about having a family, that had a big impact on me. He had no hesitation including a 5-year-old at a job interview. Mixing family and work was approved of and not two separate things. And later, when our daughter, Lindsay, did come along, John could not have been more supportive of us having flexible hours so that we could always be there for our child. If I had to do my life over again, I would still have come to Cincinnati and that is all because of John."

Sandra Degen, PhD, former UC vice president for research and now an emerita professor of pediatrics, recalling her first interaction with Hutton when she and her husband, Jay Degen, PhD, came to Cincinnati in 1985 to interview for positions at Cincinnati Children's Hospital Medical Center.



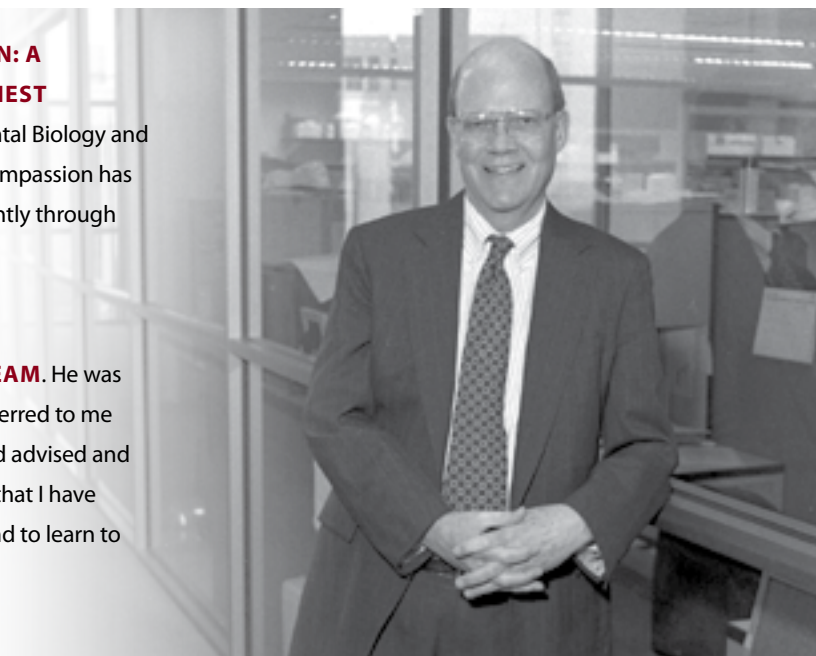
Remembering John Hutton

"I will always remember Dr. Hutton as **A TRUE RENAISSANCE MAN: A SCIENTIST, HUMANIST, LEADER, AND FATHER OF THE HIGHEST DISTINCTION**. As the founder of both the Divisions of Developmental Biology and Biomedical Informatics, his spirit of curiosity, intellectual rigor and compassion has led both divisions to greatness. That spirit will continue to shine brightly through our halls as it inspires new generations of clinicians and scientists."

Peter White, PhD, chair of biomedical informatics.

"It was **A WONDERFUL EXPERIENCE BEING A PART OF HIS TEAM**. He was not only my boss, but my mentor and role model. At one point he referred to me as one of his kids, putting me among the many that he mentored and advised and whose careers he helped shape. That was one of the highest honors that I have ever received. He taught me to always treat everyone with respect and to learn to disagree without being disagreeable."

Andrew Filak Jr., MD, senior associate dean for academic affairs.



IN MEMORIAM

The following alumni of the College of Medicine passed away between June 2, 2016 and May 15, 2017.

CLASS	CLASS	CLASS
1941 Paul M. Seebohm, MD	1953 Paul A. Busam, MD George R. Nugent, MD John M. Wolfe, MD	1962 Jim O. Bauer, MD Richard L. Cowen, MD John L. Culberson, MD
1943 George C. Sivak, MD	1954 George A. Benson Jr., MD Herbert B. Francis, MD William A. Kelly, MD Lee McHenry, MD	1963 Darryl T. Goldberg, MD
1945 Sylvan A. Golder, MD Daniel A. Whalen, MD	1955 Gregory G. Young, MD	1964 George T. Hinkle, MD
1946 James E. MacMillan, MD Emile E. Werk Jr., MD	1956 Tom H. Brunsman, MD Kenneth Kreines, MD	1968 George L. Bush, MD
1947 Robert C. Kratz, MD Jack F. Rohde, MD	1957 John W. Anderson, MD Raymond Dann, MD	1969 Richard L. Levy, MD
1948 Jerome T. Grismer, MD Elmer A. Schlueter, MD	1959 Bernard B. Bruns, MD Earl R. Ebie, MD Donald H. Jansen, MD John A. Williams, MD	1971 Edward A. Geiser, MD
1950 Yutaka K. Yoshida, MD	1960 Garvin H. McClain, MD John R. Sper, MD	1972 Daniel E. Schlie, MD
1951 Sanford L. Billet, MD Roy J. Lewis, MD Raymond J. Timmerman, MD George J. Watkins, MD William B. Wladecki, MD		1973 William D. Travis, MS
		1976 Gregory G. Magee, MD
		1978 Howard R. Elson, PhD
		1980 Stephen I. Pleatman, MD
		1996 John Schill, MD
		2011 Arturo R. Maldonado, PhD

When passion meets purpose, heroes are made.



DID YOU KNOW THAT **more than 300 Tristate physicians volunteer as medical preceptors—teachers, mentors and role models—for hundreds of UC med students?**

Their generosity ensures that the next generation of doctors is ready to lead.

To learn more about becoming a preceptor, contact nancy.jamison@uc.edu.

Thank you.

CINCINNATI'S NEW HOME FOR THE MOST ADVANCED NEUROLOGIC CARE

University of Cincinnati Gardner Neuroscience Institute building

- \$60.5 million, 114,000-square-foot building
- Construction begins June 2017; scheduled completion, 2019
- Positioned at Martin Luther King Drive East and Eden Avenue



GLOBAL ARCHITECTURE firm Perkins+Will consulted with patients of UC Health on the building's design. When completed in 2019, it will bring together more than 125 faculty physicians, researchers and specialized staff. The new building is set to become a signature landmark of Uptown. More than \$40 million of the \$54.5 million campaign has been raised, including a \$14 million gift from the James J. and Joan A. Gardner Family Foundation, and a lead gift from the Farmer Family Foundation.

FOR MORE INFORMATION, VISIT uhealth.com/transforming-complex-care/