

# UVA SCHOOL OF MEDICINE 2022 ANNUAL REPORT



ONE FUTURE **TOGETHER**

## OUR MISSION

# Transforming health and inspiring hope for all Virginians and beyond.

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## FROM THE DEAN

Since having the honor of becoming the School of Medicine's 17th dean a year ago, I have been inspired by the incredible talent, passion, courage, and excellence among the School's faculty, staff, trainees, students, and alumni. Now I am thrilled to share with you the 2022 University of Virginia School of Medicine Annual Report!

The School's stellar reputation points to its top rankings such as *U.S. News & World Report's* "Best Medical School" category where we most recently ranked #30.

In the pages ahead you'll learn more reasons for our significant standing, such as national recognitions and accomplishments like Jochen Zimmer, PhD, being named a Howard Hughes Investigator, and Tracy Downs, MD, becoming the inaugural Senior Associate Dean for Diversity, Equity, and Inclusion in the School of Medicine. We're proud that the UVA Cancer Center was awarded the prestigious NCI Comprehensive Cancer Center designation; and we're celebrating that our beautiful new UVA Orthopedic Center came online after 10 years of dreaming and hard work.

The past year has been full of rigorous evaluation and historic boldness as we spent a year drafting the first enterprise-wide Strategic Plan for the future of UVA Health. I'm also excited that the School has an aligned leadership team with UVA Health. With aligned leaders, anything is possible.

UVA Health's revamped Mission Statement — the very reason we exist — says we are "transforming health and inspiring hope for all Virginians and beyond." I especially love that element of hope — looking toward an even better future. To ensure that happens, 2023 and the next decade will be full of exciting growth and excellence. I invite you to join us as we build One Future Together.

Sincerely,

A handwritten signature in blue ink, which appears to read "Melina Kibbe". The signature is fluid and cursive.

**Melina Kibbe, MD**

Dean, UVA School of Medicine  
James Carroll Flippin Professor of Medical Science  
Chief Health Affairs Officer, UVA Health

“We will always seek to conduct impactful research that advances science and improves the health of all people.”

Linda R. Duska, MD, MPH  
Senior Associate Dean  
for Research



Biomedical Engineering student Rita Anane-Wae at work in the lab of Dr. Mete Civelek.

# Research

With over \$226 million in total research dollars and \$153 million in NIH research awards, the UVA School of Medicine is an internationally recognized innovative and collaborative leader in research that advances science, pioneers the treatments of tomorrow, and improves the health of all people on a global scale.



## 2021-2022 BY THE NUMBERS

**\$226M**  
total research dollars

**30<sup>th</sup>**  
U.S. News & World Report  
Research rankings

**3**  
Nobel Prize  
Awards

**\$153M**  
NIH research awards

**42<sup>nd</sup>**  
NIH Blue Ridge ranking

**1**  
Howard Hughes  
Medical Institute  
investigator

**249**  
NIH investigators

**15**  
National Academy of Medicine  
& Sciences members

**7**  
National Academy of  
Inventors members



Scientist Jochen Zimmer, PhD, outside his lab at the UVA School of Medicine.



### FOR THE 16TH TIME, UVA NAMED A TOP BIOMEDICAL RESEARCH CENTER

The University of Virginia, in April 2022, was named a “**Top Ten Center of Biomedical Research**” by the **Hartwell Foundation**, an award it has received 16 years in a row.

UVA physician-scientist **Shannon Moonah, MD, ScM**, received a **2021 Hartwell Individual Biomedical Research Award** for his research on *C. difficile* infection.



**Jeff Elias, MD, Mark Quigg, MD, Patrick Finan, PhD, and Chang-Chia “Jeff” Liu, PhD**, are pioneering a new way to treat chronic pain unresponsive to medication. Their innovative approach will receive more than \$5 million from the National Institutes of Health to fund a clinical trial to develop brain stimulation for severe pain conditions.

## School of Medicine Professor to Receive \$9 Million as New HHMI Investigator

Among the prestigious awards and grants that the University of Virginia School of Medicine received in 2021-2022, a very exciting one came from the Howard Hughes Medical Institute (HHMI), the nation’s largest biomedical research institution.

Professor and biomedical scientist **Jochen Zimmer, PhD**, was named a HHMI Investigator in the fall of 2021, one of biomedical science’s highest honors.

Dr. Zimmer, a professor of molecular physiology and biomedical physics, was selected as one of only 33 Investigators out of more than 800 applicants. He will receive roughly \$9 million over a seven-year term, renewable pending a successful scientific review. He is only the second HHMI Investigator from UVA.



From the onset of COVID-19, world-renowned infectious diseases expert Dr. William Petri has been sought out for comment by reporters.

### SWIFT RESPONSE TO PANDEMIC LED TO PROMISING — AND ONGOING — COVID-19 RESEARCH AT UVA

In response to the COVID-19 pandemic, the School of Medicine’s pervasive spirit of collaboration led to important insights, treatments, and prevention.

In the early months, a team began identifying the viral variants prevalent in Charlottesville, Virginia, through next generation sequencing.

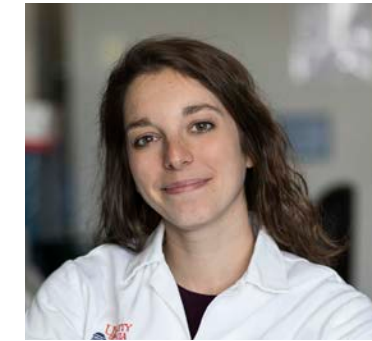
UVA collaborated with the Virginia Department of Health through testing to assess who remained un-infected and thus susceptible. Researching long-haul pathogenesis got underway and a specialized clinic was established.

Development of an intranasal vaccine, a pan-coronavirus vaccine, and a peptide vaccine proceeded speedily.

UVA participated in demonstrating the effectiveness of remdesivir. In addition, outpatient clinical trials showed that anti-Spike monoclonal antibodies given subcutaneously could protect people who did not respond to the vaccine. An infectious diseases fellow designed a Phase II clinical trial of the allergy drug dupilumab, demonstrating its potential as an effective treatment.

The Manning Foundation and the Ivy Foundation played essential roles in this research response. We thank the many UVA researchers that contributed to these efforts.

## UVA Scientists Publish Groundbreaking Research



Research by UVA neuroscientists **Meghan Puglia, PhD**, and **Kevin Pelphrey, PhD**, was spotlighted in the June 2022 issue of *National Geographic*. A photograph of an infant whose arm is being brushed by Puglia points to the researchers’ experiments exploring links between the response of nerve fibers and autism or other developmental differences.



**Ken Walsh, PhD**, and other UVA faculty published on the loss of Y link to cardiac fibrosis/HF in the journal *Science*, “Hematopoietic loss of Y chromosome leads to cardiac dysfunction and is associated with death due to heart failure.”



**Jeff Saucerman, PhD**, published in the journal *Nature* on “Brahma safeguards canalization of cardiac mesoderm differentiation.”



**Ahmad Jomaa, PhD**, published in the journal *Science* on mechanism of co-translational protein synthesis on endoplasmic reticulum-associated ribosomes.



**Maria Luisa Sequeira Lopez, MD**, published an article for *Circulation Research* on discovering blood pressure baroreceptors. She also received the American Heart Association Harriet Dustan award sponsored by the Council on Hypertension.

## Many UVA Researchers Awarded Large Grants



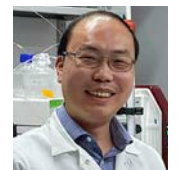
**Charles Farber, PhD**, received a \$3.8 million NIH grant for a project entitled “Systems Genetics of Bone Regeneration.”



**Jie Sun, PhD**, studies influenza infection with the support of a \$7.8 million grant from the NIH Institute of Allergy & Infectious Diseases.



**James Stone, MD, PhD**, was awarded an \$8 million grant from the Department of Defense to explore how to better prevent traumatic brain injury in military personnel exposed to blast shock waves.



**Huiwang Ai, PhD**, received two grants totaling \$5.3 million from the NIH for developing novel molecular biosensors and imaging methods to study Alzheimer’s disease and sound processing/hearing disorders.

“The UVA School of Medicine is preparing the next generation of the world’s finest clinicians, researchers and thought leaders.”

Meg G. Keeley, MD  
Senior Associate Dean  
for Education



Dr. Monica Allen celebrates her graduation along with 162 MDs, 14 PhDs, and 51 Masters students.

# Education

The UVA School of Medicine’s innovative educational mission attracts the brightest and most diverse students and trainees from around the world, taught by passionate and nurturing faculty and staff.



## 2021-2022 BY THE NUMBERS

621

medical students

3.86

average GPA for incoming class

12

ACGME programs ranked by Doximity in top quartile nationally

587

resident trainees

96<sup>th</sup>

percentile MCAT score for incoming medical students

22<sup>nd</sup>

U.S. News & World Report Internal Medicine Residency ranking

199

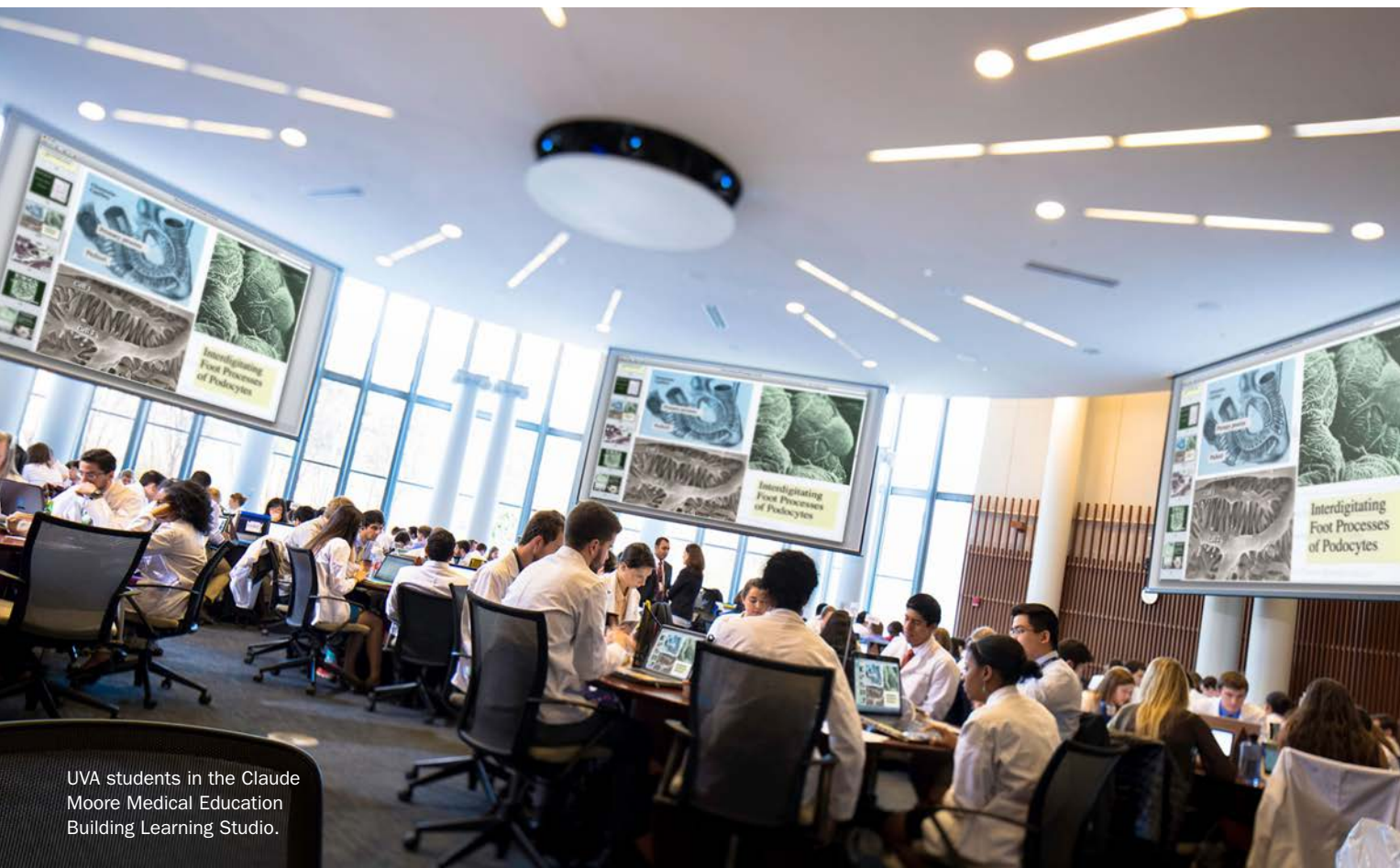
fellowship trainees

23<sup>rd</sup>

U.S. News & World Report Surgery Residency ranking

6,629

medical student applicants for class of 2025



UVA students in the Claude Moore Medical Education Building Learning Studio.

## Five Over Forty-Four!

School of Medicine training grants among only 10% in the country that have been funded continuously for nearly five decades

At the UVA School of Medicine, we are proud to have 13 NIH T32 training grants that yield nearly \$6 million each year. Not only that: five of these training grants have been continuously funded for over 44 years!

Less than 10% of NIH T32 grants across the United States can boast such longevity. Further, there are only five such grants in the country older than 48 years. (T32 indicates a category of funding.)

We celebrate the faculty principal investigators currently leading these long-lived grants!

- The **Training in the Pharmacological Sciences** grant is 48 years old (GM007055-48, Kevin Lynch, PhD).
- The **Basic Cardiovascular Research Training** grant is 46 years old (HL007284-46, Gary Owens, PhD and Brant Isakson, PhD).
- The **Infectious Diseases Training Program** grant is 46 years old (AI007046-46, Bill Petri, MD, PhD and Allison Criss, PhD).
- The **Cancer Research Training Program** grant is 46 years old (CA009109-46, Andrew Dudley, PhD and Amy Bouton, PhD).
- The **Medical Scientist Training Program** grant is 44 years old (GM007267-44, Dean Kedes, MD, PhD).

## New Regional Campus Ramps Up Training in Fairfax's Urban State-of-Art Facilities

After years of planning, the new Inova campus for the School launched in March 2021. The fully accredited program partners with Inova Fairfax Medical Center, the largest hospital campus in the northern Virginia region. In its high-volume, urban setting, the regional campus provides diverse and fast-paced opportunities to medical students in the clinical phase of their training.

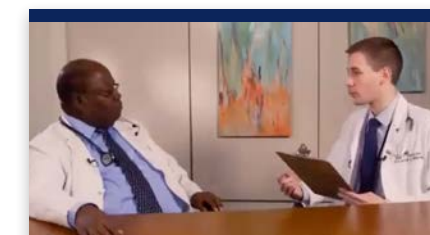
Inova's facilities include a 12,000 square-foot Claude Moore Education and Research Center. Its training capacity comprises an expansive medical simulation center, surgical simulation and advanced practice training space, and newly renovated amenities that provide inter-professional collaborative training and educational experiences. Access to a health sciences library is supported by an outstanding team of librarians is available 24/7.



### BUILDING CONNECTION FOR BME STUDENTS

As part of an NIH grant, five undergraduates in the UVA Biomedical Engineering (BME) program have spent their summer outside the classroom and inside the clinical environment, learning firsthand how to engineer better healthcare.

The competitive BME Clinical Scholars program brings students into the operating room, clinics, inpatient wards, and the emergency department while being mentored by third-year medical students. They identify engineering opportunities and develop curriculum for other BME students to use in the classroom.

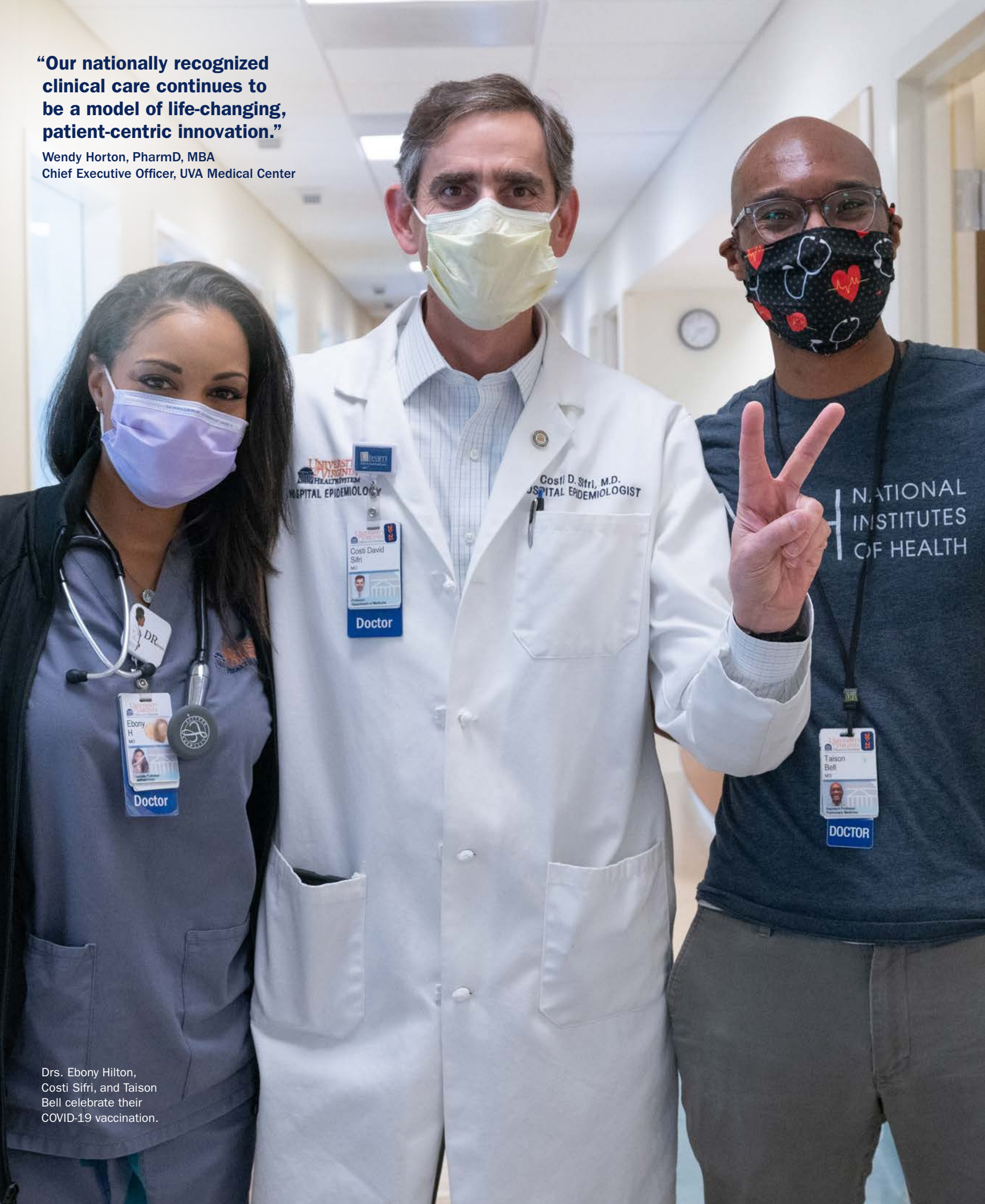


### UVA A NATIONAL LEADER IN MEDICAL STUDENT EPA PROGRAM

The University of Virginia School of Medicine is a national leader among the few medical schools that have fully implemented a curriculum-wide core entrustable professional activity (EPA) program. The guidelines published by the American Association of Medical Colleges ensure competency in 13 skills that all medical students should be able to perform upon entering residency with indirect supervision. Students are directly observed and assessed on these skills by faculty, residents, and fellows in authentic workplace-based settings throughout the UVA curriculum.

“Our nationally recognized clinical care continues to be a model of life-changing, patient-centric innovation.”

Wendy Horton, PharmD, MBA  
Chief Executive Officer, UVA Medical Center



Drs. Ebony Hilton, Costi Sifri, and Taison Bell celebrate their COVID-19 vaccination.

# Clinical

As part of a \$3.5 billion healthcare enterprise, with 21 clinical departments and more than 1,000 physicians, the School's patient-centered clinical approach is devoted to reshaping medical practice and meeting the health needs of our community and beyond.



## 2021-2022 BY THE NUMBERS

#1

U.S. News & World Report  
Pediatrics Department  
state ranking

700

-bed medical  
center

1.8M

ambulatory visits  
annually

42<sup>nd</sup>

Newsweek magazine  
Best Hospital in the  
Country ranking

45k

procedures performed  
annually

21

clinical  
departments

#1

Newsweek magazine  
Hospital in Virginia

LEVEL  
4

National Association  
of Epilepsy Centers  
certification

5

ribbons from Newsweek  
magazine for maternity care



A UVA technician works to provide the best possible prosthetic and orthotic care, using the most technically up-to-date materials and methods.

## New UVA Health Orthopedic Center — One of the Largest in the Country

The new **UVA Health Orthopedic Center**, one of the largest outpatient centers in the nation, opened in 2022 after more than 10 years in the planning.

Uniting all of UVA Orthopedics' outpatient clinics in a 200,000-square-foot, state-of-the-art building, the Center is one of only four similar facilities on the East Coast.

The patient- and team-centric environment comprises 90 clinic exam rooms, four operating rooms, imaging (X-rays, MRI, CT), an ultramodern physical therapy center, plus a pharmacy and a food venue. The “green” structure, which meets the LEED Silver rating for sustainability design, is located down the street from UVA's athletic facilities.

*U.S. News & World Report* rated our orthopedics program as “High Performing,” which puts it among the top 10% in the country.



### UVA STROKE CENTER RECERTIFIED — ONE OF ONLY 12%

The **Joint Commission** and American Heart Association/American Stroke Association recertified UVA Health's stroke program as a Comprehensive Stroke Center (CSC), the highest level of certification available.

Only 12% of hospitals nationwide have earned this qualification. UVA Health is one of four CSCs in Virginia.

The Center also was recognized again by the *U.S. News & World Report* as “High Performing.”

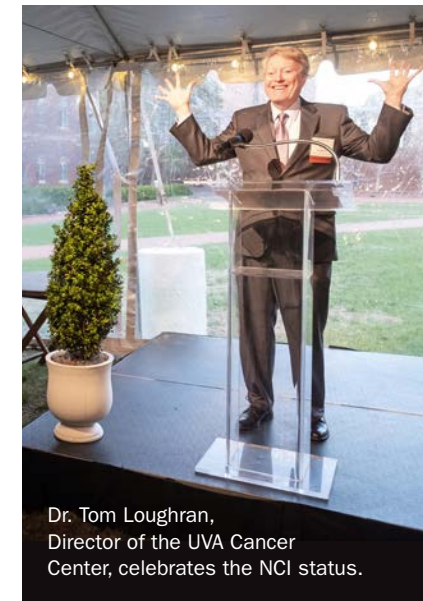
## UVA Awarded NCI Comprehensive Cancer Center Designation — One of Only 53 in the Nation

The **UVA Cancer Center** was awarded the prestigious *Comprehensive Cancer Center* designation in 2021 by the National Cancer Institute, joining an elite group of only 53 such recognized programs in the nation. It also is the only Comprehensive Cancer Center in Virginia.

The Center, which comprises 162 faculty members from 25 departments amongst four UVA schools (Medicine, Nursing, Engineering, and the College of Arts & Sciences), has for more than 30 years conducted cutting-edge cancer research and provided exceptional care to its community. Since 2014, its patient-care volume increased by 50%.

Over the last four years, funding for cancer research at UVA has increased 45%, totaling more than \$30 million in 2020. During that same period, participation in UVA Cancer Center clinical research has increased by almost 500%, with outreach throughout Virginia and its neighboring states.

In addition to the NCI recognition, *U.S. News & World Report* has named our cancer services as “High Performing,” which puts them in the top 10% of the country.



Dr. Tom Loughran, Director of the UVA Cancer Center, celebrates the NCI status.



**“Focused ultrasound is a procedure that uses sound waves to treat some conditions. This minimally-invasive, ultrasound technology is obviously very popular with patients because it can be performed on an outpatient basis and without any incision.”**

Jeff Elias, MD  
Professor of Neurological Surgery

## UVA Launches World's First \$8M Ultrasound / Cancer Immunotherapy Center

**UVA Health** is launching the world's first center dedicated to advancing a focused ultrasound and cancer immunotherapy treatment approach that could revolutionize 21st-century cancer care. The Ultrasound Cancer Immunotherapy Center is dedicated specifically to advancing a focused ultrasound and cancer immunotherapy approach to treating cancers.

With an \$8 million combined investment from UVA, the Commonwealth of Virginia, and the Focused Ultrasound Foundation, the massive project will also involve hiring faculty and staff and funding laboratory research studies and clinical trials.

Immunotherapy is arguably the most important cancer breakthrough in decades. Combining immunotherapy with focused ultrasound may open new fronts in the war against many different forms of cancer.



“Diversity, equity, and inclusion is not a requirement to be met; it’s a way of life deeply valued by us all.”

Tracy M. Downs, MD  
Senior Associate Dean for Diversity,  
Equity and Inclusion



Jacqueline Carson, Dr. Perry Bradford, Mariana Araujo, and Dr. Richard Merkel received the Dr. Martin Luther King, Jr., UVA Health Award, given annually to those who embody Dr. King’s values and teachings (not pictured, awardee Dr. Cathy Campbell).

# Diversity

The UVA School of Medicine promotes diversity and continues to further its strategic goals of transforming health care, erasing disparities, and inspiring hope — regardless of gender, age, race, ethnicity, religion, sexual orientation or identity, or disability.

## 2021-2022 BY THE NUMBERS

40%

female faculty

50%

female graduate students

57%

female medical students

6%

URM faculty

21%

URM graduate students

25%

URM medical students

## BIMS Student-Advisor Pair Awarded Gilliam Fellowship, for Diversity in Science



**Nadia Holness**, a UVA School of Medicine bio-medical sciences (BIMS) graduate student, and her adviser, **Sarah Ewald, PhD**, were awarded a 2022 Gilliam Fellowship for Advanced Study from the Howard Hughes Medical Institute.

The program invests in graduate students from populations historically underrepresented in science and their advisors. This is UVA’s first Gilliam.

Holness is conducting research in the lab of Dr. Ewald to understand how a cell recognizes that it is infected.



## FACULTY CONTRIBUTE TO AAMC REPORT ON SEXUAL HARASSMENT



**Four faculty members** from the School contributed to a first-of-its-kind report from the American Association of

Medical Colleges. *Understanding and Addressing Sexual Harassment in Academic Medicine* analyzed the prevalence and experiences of sexual harassment among U.S. medical school faculty and found that 22% of all faculty and 34% of women faculty experienced sexual harassment.

“Being our community’s healthcare provider of choice is a privilege we do not take lightly.”

Art P. Saavedra, MD, PhD  
President, UVA Physicians Group



Dr. Mohan Nadkarni at a COVID-19 drive-through testing site in Charlottesville, VA.

# Community

The School’s strong people-focused ethos is pervasive both inside the School of Medicine and outside, as we care for faculty, staff, students, and alumni, and serve all Virginians with expertise, medical outreach, philanthropy, and top-of-the-line clinical practices.

## 2021-2022 BY THE NUMBERS

168

faculty and student volunteers at Charlottesville Free Clinic

\$47M

average annual philanthropic support

1

Homeless Consult Service



### TO SERVE HOMELESS PATIENTS

*UVA medical center consult service started by medical student*

An innovative program started by a UVA medical student has grown into a service at the UVA Medical Center that not only is giving medical students unique hands-on experience, it also is helping patients who experience homelessness get connected with resources and care upon discharge.

The Inpatient Homeless Consult Service was launched by **Jacqueline Carson, UVA MD/MPH 2022**, as a pilot program with the Medicine and Family Medicine teams at UVA Medical Center.

Trained medical student-advocates complete thorough assessments of referred individuals, and coordinate with other teams to connect patients with resources, such as an appropriate placement for discharge and assistance in obtaining housing, Medicaid, nutrition support, financial aid, transportation, durable medical equipment, cell phones, IDs, and clothing.



### FIGHTING HEALTH DISPARITY

*UVA and community partners launch WellAWARE*

The University of Virginia is partnering with community partners to fight health care disparity by reaching out to the medically underserved, one household at a time.

The multi-year initiative, called WellAWARE, is a joint effort by UVA’s Primary Care Practices and its Office of Diversity and Community Engagement, along with the Charlottesville Free Clinic and Central Virginia Health Services. Trained front-line advocates are helping to provide neighborhood-level access to primary care and overcome obstacles to good health and healthcare.

“The commitment, excellence, and professionalism of its people is the heart of the UVA School of Medicine.”

Susan M. Pollart, MD  
Senior Associate Dean for Faculty Affairs and Faculty Development



School of Medicine junior faculty build meaningful relationships with their mentors through the Early-Career Faculty Mentoring Program.

# People

As they align with team leadership in a culture of respect, wellbeing and advancement, the School’s distinguished faculty, trainees, and staff are regularly recognized for their excellence and innovation as they pursues strategic growth on a foundation of success.

## 2021-2022 BY THE NUMBERS

**1,261**  
faculty

**204**  
endowed professors

**8.4%**  
annual promotion rate

### UVA FACULTY RECOGNIZED FOR THEIR EXCELLENCE WITH NATIONAL HONORS FOR 2021-2022



**Christine Thisse, PhD, and her late husband Bernard Thisse, PhD,** received the George Streisinger Award from the International Zebrafish Society for their use of zebrafish in their study of cell biology.



**Coleen McNamara, MD, and Angela Taylor, MD** received a highly prestigious Leducq International Network of Excellence Award as part of an international consortium for a project entitled Checkpoint Athero that will explore the potential of immune checkpoint therapy for atherosclerosis.



**Roger T. Anderson, PhD,** was named 2021 Researcher of the Year by the American Cancer Society.



**Karen Johnston, MD, MSc,** was the first U.S. woman to receive the international American Stroke Association’s William M. Feinberg Award for Excellence in Clinical Stroke.



**Brad Worrall, MD,** was recognized by the American Heart/American Stroke Association with their 2022 Stroke Research Mentoring Award.



**John P. Mugler III, PhD,** received the Gold Medal from the International Society of Magnetic Resonance in Medicine — one of only 80 awarded in the society’s 50-year history — for seminal contributions to the development of multiple rapid MR imaging techniques.

**Craig Meyer, PhD,** was named a fellow of the National Academy of Inventors, the highest professional distinction accorded solely to academic inventors. He is one of seven School of Medicine faculty to be honored with this membership.



## Mathers Said ‘Failure is Not an Option’

Infectious diseases and diagnostics expert named Innovator of the Year

When COVID-19 struck the world, Amy Mathers, MD, knew her training in both infectious diseases and diagnostics positioned her to fight the virus.

“Failure was just not an option. It was like, ‘We have to figure something out.’”

For her efforts, Mathers, associate director of clinical microbiology and an associate professor of medicine and pathology at the University of Virginia, was named 2021 Edlich-Henderson Innovator of the Year.

Early in the pandemic, when the federal government could not provide enough COVID-19 tests, Mathers worked around the clock with clinical researcher Melinda Poulter to create in-house tests. Then Mathers discovered another problem: “There were no swabs to be had,” she remembers. “It was just nuts.”

So Mathers, through the UVA Sink Lab and in collaboration with William Guilford, PhD, a UVA associate professor of biomedical engineering, created a 3D-printed swab prototype, which was then used as a template for injection-molded swabs that Mathers was able to safety test during a clinical trial.

With UVA students set to return to dormitories, Mathers felt compelled to create an early warning testing system. Working with Lisa Colosi-Peterson, PhD, in the School of Engineering and Shireen Kotay, an environmental microbiologist in Mathers’ laboratory group, Mathers developed a wastewater test for building-level surveillance.

Next, as SARS CoV-2 mutations and successful variants began to emerge, Mathers pivoted her laboratory to begin applying whole-genome sequencing to monitor emergence to inform public health policy and understand transmission.

Mathers said she loves discovering new things. But most rewarding is applied research — “when the discoveries we are making are used to help make things better for everyone,” she said.

### ACCOLADES AND NATIONAL RECOGNITION FOR UVA SCHOOL OF MEDICINE FACULTY



**Kimberly Kelly, PhD**, a UVA biomedical engineering professor, launched start-up ZielBio to discover new treatments for cancer and other diseases. After being awarded \$25.1 million in Series A financing, ZielBio reached an important milestone in 2022, announcing a Phase 1/2 clinical trial for a proprietary humanized monoclonal antibody against cell surface plectin.



**Rachel Y. Moon, MD**, was the lead author of new American Academy of Pediatrics’ safe-sleep guidelines for infants. Moon, who is the Harrison Distinguished Professor of Pediatrics, received the Lifetime Distinguished Researcher Award from the International Society for the Prevention of Prenatal and Infant Death.



**JoAnn V. Pinkerton, MD**, professor of obstetrics and gynecology and a recognized world expert in the area of menopause, was ranked by PubMed’s Expertscape in the top 0.1% of scholars writing about menopause over the past 10 years.

## Influencing the National Conversation

UVA faculty at the helm of prestigious publications and societies

### SERVING IN 2021-2022 AS EDITORS-IN-CHIEFS OF TOP JOURNALS



Andrew Dudley, PhD  
*Angiogenesis*



Jay Fox, PhD  
*Toxins*



Mikel Gray, PhD  
*Journal of Wound, Ostomy and Continence Nursing*



Melina Kibbe, MD  
*JAMA Surgery*



Li Li, MD  
*Family Medicine and Community Health*



Jason Papin, PhD  
*PLOS Computational Biology*



Mitch Rosner, MD  
*Clinical Journal of the American Society of Nephrology*

### LEADING MEDICAL SOCIETIES IN 2021-2022 AS PRESIDENTS



Todd Bauer, MD  
Society of Clinical Surgery



Amy Bouton, PhD  
Cancer Biology Training Consortium



Donald Dudley, MD  
American Association of OBG Foundation



Kathleen Fuchs, PhD  
American Board of Clinical Neuropsychology



Brad Kesser, MD  
American Neurology Society



Li Li, MD  
US Preventive Service Task Force Member



Beatrice Lopes, MD, PhD  
American Association of Neuropathologists



Mark Miller, MD  
American Orthopaedic Society for Sports Medicine



Mohan Nadkarni, MD  
Association of Chiefs and Leaders in General Internal Medicine



Michael Nelson, MD, PhD  
American Board of Allergy and Immunology



Allan Tsung, MD  
Society of Asian Academic Surgeons

“The bridge provided by the alumni of the UVA School of Medicine leads to excellence.”

Barry Collins  
Associate Dean for  
Medical Alumni Affairs



Collins speaks at the Biomedical Sciences Diploma Ceremony.

# Alumni

The University of Virginia School of Medicine is grateful for the active and growing community of the UVA Medical Alumni Association and Medical School Foundation, which strengthens connections and provides support to alumni, students, staff, and faculty.

## 2021-2022 BY THE NUMBERS

\$4.8M

Foundation endowment distributions

\$6.2M

in alumni giving

\$2.2M

Foundation support for scholarships



## After Pandemic Pause, Medical School Classes Gather at Reunion Weekend

Medical alumni returned to Grounds in late April 2022 in record numbers after two annual gatherings were canceled due to the pandemic.

The UVA Medical School Reunion Weekend drew nearly 600 MD alumni and their guests. Classes ending in 2 and 7 from 1967-2002 enjoyed their milestone reunions, while rescheduled gatherings were held for 1965, 1970, 1971, 1976, 1980, 1986, and 1990.

Recipients of the UVA Medical Alumni Association's alumni awards from 2020 and 2021 were also recognized, along with **Barbara L. Bass, MD '79**, who received the UVA Distinguished Alumna Award.



## INAUGURAL BLACK MEDICAL ALUMNI WEEKEND HELD



The first-ever **Black Medical Alumni Weekend** was held in April 2022, recognizing UVA School of Medicine pioneers, including Edward T. Wood, MD '57, one of the school's first two Black graduates. Also fêted were Bill Womack, MD '61; Moses Woode, PhD, and Maurice Apprey, PhD. A Saturday night gala celebrated the contributions of David Wilkes, MD, former dean of the School of Medicine.

“Supporting the School of Medicine is building a better future for all.”

Amy S. Karr  
Senior Associate Vice President,  
UVA Health Development



# Philanthropy

**Philanthropy at the School of Medicine — which in FY2022 totaled a record-breaking \$61 million, the school’s highest fundraising total so far — advances the School’s mission, places it at the forefront of innovation, provides generous scholarships to promising students, and enables recruitment of world-class faculty and staff.**

## School of Medicine Support Breaks Fundraising Records

Fiscal year 2022 was a banner fundraising year for the School, thanks to the incredible support of nearly 5,500 medical alumni, friends, and grant-making organizations. Philanthropy totaled a record-breaking \$61 million — a 50% increase over the prior year and the school’s highest fundraising total so far during UVA’s Honor the Future campaign. These generous gifts have profoundly advanced the school’s teaching, research, and patient care missions, enabling us to offer more scholarships to promising students, recruit the highest caliber faculty and staff, and position UVA Health and the School at the forefront of medical innovation and discovery.

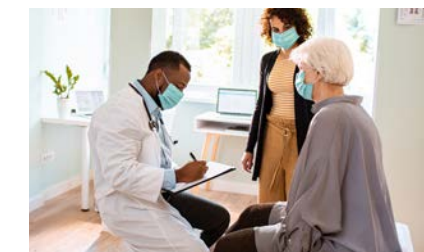
### 2021-2022 BY THE NUMBERS



### Visionary Partners Key to Empowering the Future

#### Faculty development and recruitment

« The Mary M. & Charles H. Henderson, MD, Endowment for Faculty Excellence, to which Dr. Henderson (COM '61, SOM '65, Res '71) and his wife Mary (pictured at left), made a significant new contribution in 2022. The endowment was created by the Hendersons in 2014 to attract the best and brightest scholars, clinicians, and scientists to educate and train our future healthcare leaders and to support them in cultivating their own teaching excellence and professional development.



**Medical research initiatives:** UVA is working hard to understand, prevent, and cure neurological disorders, cardiac conditions, rare cancers, and many more acute and chronic diseases, including LGL leukemia — a rare “orphan” blood cancer through the LGL Leukemia Research Endowed Fund created by Brad and Laura Glass.



**Increased access to medical education:** UVA is striving to enable more talented students from under-represented backgrounds to benefit from the School of Medicine’s excellent training. One way has been the creation of the Wood Nash Bicentennial Scholarship Fund, named after the School’s first two Black graduates.

“Our highest-ever consolidated revenue of \$1.2B for fiscal year 2022 is a powerful investment in the School of Medicine’s successful future.”

Jeremy Sibiski  
Chief Operating Officer

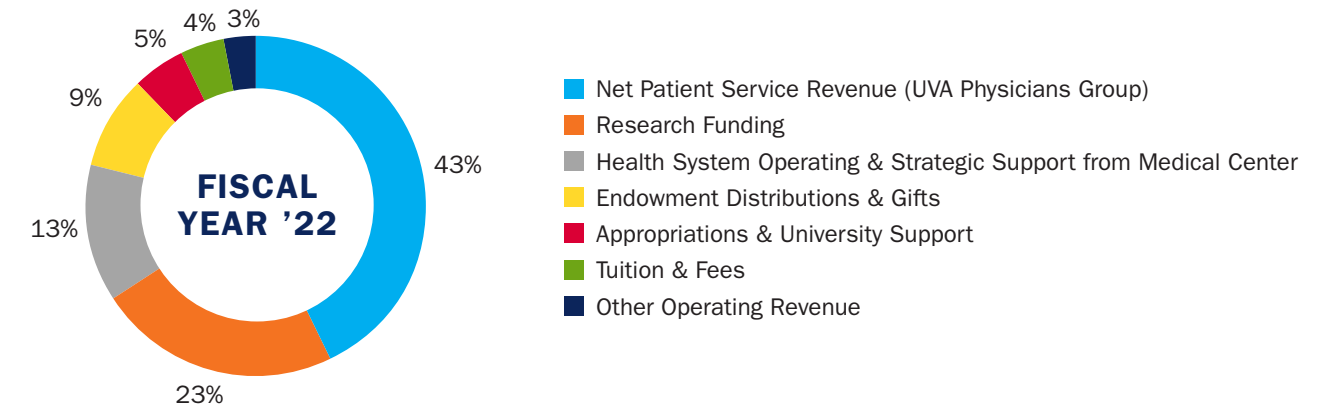
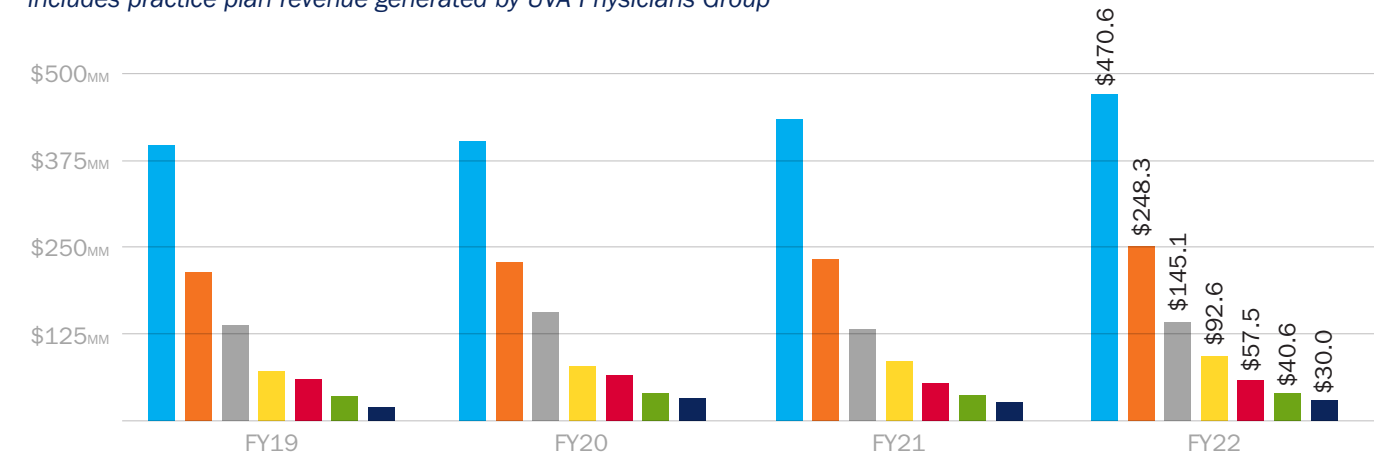


# Financial

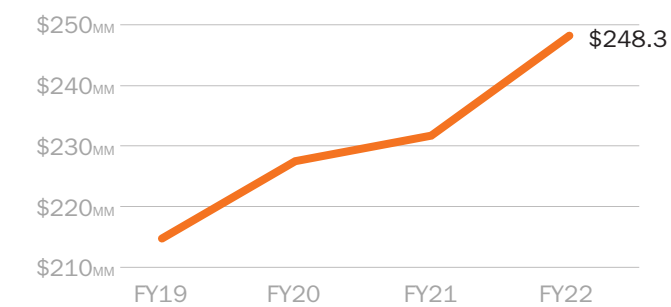
The University of Virginia School of Medicine is building the future through financial stewardship.

## REVENUE TRENDS

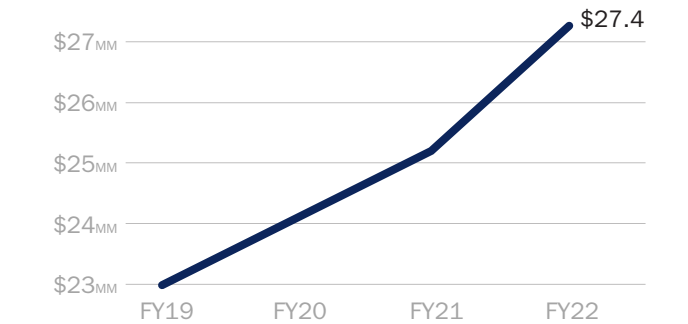
includes practice plan revenue generated by UVA Physicians Group



## GROWTH IN RESEARCH REVENUE



## SCHOLARSHIP & FELLOWSHIP SUPPORT PROVIDED



**“When you have an aligned leadership team going forward, anything is possible.”**

Melina R. Kibbe, MD  
Dean, UVA School of Medicine



# Leadership

Leaders at the School of Medicine are shaping a unified future.

## ADMINISTRATION



Melina Kibbe, MD  
Dean



Susan Pollart, MD  
Senior Associate  
Dean for Faculty  
Affairs & Faculty  
Development



Meg Keeley, MD  
Senior Associate  
Dean for Education



Tracy Downs, MD  
Senior Associate  
Dean for Diversity,  
Equity & Inclusion



Linda Duska, MD  
Senior Associate  
Dean for Research  
(interim)



Jeremy Sibiski  
Chief Operating  
Officer



Mark Weathers  
Chief of Staff



Allison Holt  
Associate Dean  
for Finance &  
Administration

## CLINICAL DEPARTMENT CHAIRS



Peggy McNaull, MD  
Anesthesiology



Brian Hoard, DDS  
Dentistry



Arturo Saavedra,  
MD, PhD  
Dermatology



Robert O'Connor, MD  
Emergency Medicine



Li Li, MD  
Family Medicine



Mitchell Rosner, MD  
Medicine



Howard Goodkin,  
MD, PhD  
Neurology



Mark Shaffrey, MD  
Neurosurgery



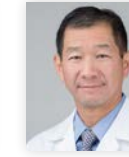
Paola Gehrig, MD  
Obstetrics &  
Gynecology



Peter Netland, MD,  
PhD  
Ophthalmology



Bobby Chhabra, MD  
Orthopaedic Surgery



Stephen Park, MD  
Otolaryngology



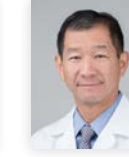
Christopher Moskaluk,  
MD, PhD  
Pathology



James Nataro,  
MD, PhD  
Pediatrics



Robert Wilder, MD  
Physical Medicine &  
Rehabilitation



Stephen Park, MD  
Plastic Surgery  
(interim)



Anita Clayton, MD  
Psychiatry &  
Neurobehavioral  
Sciences



James Larner, MD  
Radiation Oncology



Alan Matsumoto, MD  
Radiology & Medical  
Imaging



Allan Tsung, MD  
Surgery



Kirsten Greene, MD  
Urology

## RESEARCH DEPARTMENT CHAIRS



David Auble, PhD  
Biochemistry &  
Molecular Genetics



Fred Epstein, PhD  
Biomedical  
Engineering



Doug DeSimone  
Cell Biology



Amy Bouton, PhD  
Microbiology,  
Immunology, & Cancer  
Biology (interim)



Lukas Tamm, PhD  
Molecular Physiology  
& Biological Physics



Harald Sontheimer,  
PhD  
Neuroscience



Doug Bayliss, PhD  
Pharmacology



Ruth Bernheim, JD  
Public Health  
Sciences

## RESEARCH CENTER DIRECTORS



Tom Loughran, MD  
Cancer Center



Coleen McNamara, MD  
Beirne B. Carter Center  
for Immunology Research



Boris Kovatchev, PhD  
Center for Diabetes  
Technology



Lukas Tamm, PhD  
Center for  
Membrane and Cell  
Physiology

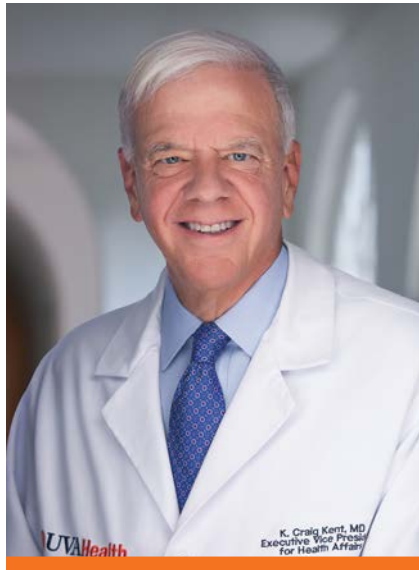


Charles Farber, PhD  
Center for Public  
Health Genomics



Gary Owens, PhD  
Robert M. Berne  
Cardiovascular  
Research Center





## FROM THE EXECUTIVE VICE PRESIDENT OF HEALTH AFFAIRS

**As you read** through this annual report, I hope you'll take a few minutes to reflect on what a tremendous success the last year has been for the UVA School of Medicine and UVA Health. For more than two years, COVID-19 has affected every aspect of what we do, from patient care to medical education to the operations of our labs and research facilities. In many cases, we have had to abandon comfortable, familiar approaches in favor of inventing new ways to meet the challenges forced upon us. And our faculty, clinicians, trainees, students, and team members have magnificently risen to the challenge. In these pages are endless examples of innovation and ingenuity, of cooperation and collaboration, of dedicated and unwavering people pulling together to accomplish the extraordinary. I am incredibly proud of what we, collectively, have achieved in the last year. I am deeply grateful for every contribution, for every person who has been undeterred in the face of the difficult and even the seemingly impossible. This has been a trial by fire, which has forged us into a better, stronger UVA Health. The outstanding work featured in this annual report is a testament to our caregivers and our organization.

It is now time that we turn our eyes to a better future. The unveiling of our new Strategic Plan provides us with direction for years to come. It maps out as an organization where we are going and, more importantly, how we get there. This is an ambitious 10-year vision, extending our patient care across the state of Virginia and beyond, seeking to ensure equitable access to healthcare for all, committing ourselves to best-in-class excellence in education and fortifying our research enterprise's position among the world's finest. This is a direction that will provide tangible benefits for patients in Virginia and throughout the nation and the world.

We know, however, that ambitious goals are not easily achieved. The journey ahead will be challenging. It will take hard work and sacrifice. But having seen what we have accomplished over the last two years — over the course of a global pandemic — I am filled with confidence and optimism. We have pulled together to work as one for the greater good. We have provided outstanding patient care, developed treatments for COVID-19, made major discoveries in cancer and other diseases, and ensured our students received exceptional education. In the last year, our work has been honored by the Howard Hughes Medical Institute and the Hartwell Foundation; our patient care has been recognized by *Newsweek*, *U.S. News & World Report* and *America's Best Doctors*; our Cancer Center was named one of only 53 Comprehensive Cancer Centers in the country by the National Cancer Institute, and we became an integrated system with five hospitals and two physician organizations. We have accomplished amazing things under difficult circumstances, and the lessons we have learned and the bonds we have formed now become an unshakable foundation for an exceptional tomorrow.

With deep gratitude,

K. Craig Kent, MD,  
Chief Executive Officer, UVA Health  
Executive Vice President of Health Affairs, University of Virginia



## FROM THE CEO OF THE UVA MEDICAL CENTER

**As the CEO** of UVA Medical Center, I am lucky to witness first-hand how our culture of innovation, education and discovery is improving patient care. One obvious example is COVID-19: Our clinicians and researchers have played critical roles in advancing our understanding of this insidious disease and in finding better ways to treat it, including launching one of the nation's first long COVID clinics. This annual report shows many of our other lifesaving and life-changing initiatives: how we've created a new multidisciplinary program to better treat chronic pain; how the National Cancer Institute recognized our excellence in cancer care and research by naming us one of only 53 Comprehensive Cancer Centers in the country; and how we have launched the world's first focused ultrasound cancer immunotherapy center to reinvent how cancers are treated. And those are just a small sample of the amazing achievements we have made in the last 12 months, despite the challenges posed by a global pandemic. This is truly important work that will benefit not just our patients but all patients.

I encourage you to discover, in these pages, how our culture of collaboration, mentorship and respect is creating an environment where promising ideas are nourished and grow, regardless of the source. You can read about people who work together to overcome obstacles for the greater good. And you can see a deep commitment to making lives better, whether in the clinic, the lab or the classroom. You will find these same principles reflected throughout our new Strategic Plan, a visionary roadmap that will guide UVA Health throughout the coming years. It gives us direction and purpose, and it will help us toward our goal of being one of the world's finest academic health systems. This is a plan that puts patients and people at the center of everything we do. It will help us ensure health equity for all and deliver care wherever it is needed, not just here in Charlottesville but across the Commonwealth of Virginia and beyond. It will enhance our exceptional research enterprise to develop new treatments and cures. And it will help us teach and train the next generation of clinicians, researchers and thought leaders, preparing them to do great things in the future. Never have we aimed higher, and never has our reach and impact extended farther.

This is truly an exciting time for the School of Medicine and for UVA Health. I can't wait to see what's next.

Take care and be well,

Wendy Horton, PharmD, MBA  
Chief Executive Officer, UVA Medical Center



## FINAL WORDS FROM THE DEAN

Researching and creating this UVA School of Medicine 2021-2022 Annual Report has been so rewarding. The biggest challenge was how to fit in as much of the School's many extraordinary accomplishments and incredible growth as possible. I am so very proud of our researchers, clinicians, trainees, students, and staff and their achievements. I trust you have come away with a sense of the immense enthusiasm, commitment and innovation that is part of the School's DNA.

That excitement continues as we look toward the future of the UVA School of Medicine. The lengthy process undergone this year to establish UVA Health's first enterprise-wide Strategic Plan is our map toward One Future Together | Health and Hope for All.

Every step we take will ensure that our bold new Vision Statement becomes reality. We will cultivate healthy communities and belonging for all. We will strengthen our already robust foundation. And we will expand our excellence and enable discoveries for better health. Achieving these goals will position us as the nation's leading public academic health system. I believe we are going to transform patient care, research, education, and engagement with the diverse communities we serve.

To represent this amazing School is a deep honor, and together, our future is bright.

Sincerely,

**Melina Kibbe, MD**

Dean, UVA School of Medicine

James Carroll Flippin Professor of Medical Science

Chief Health Affairs Officer, UVA Health

## OUR VISION

**To be the nation's leading public academic health system and best place to work, while transforming patient care, research, education and engagement with the diverse communities we serve.**

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