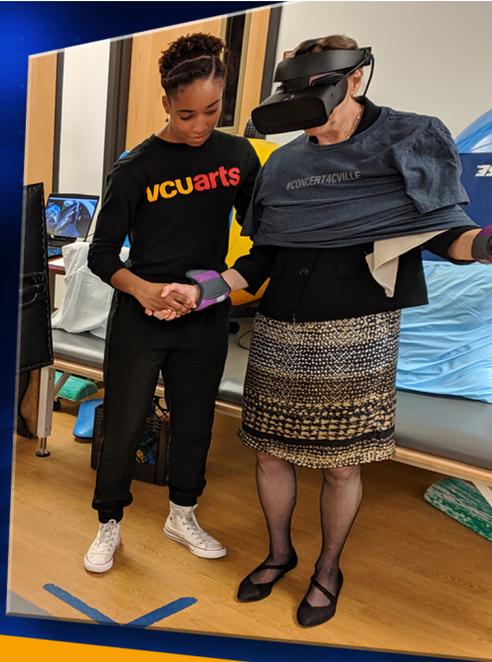




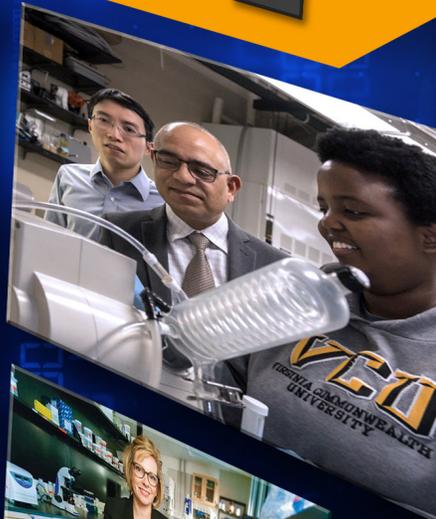
VCU

ANNUAL RESEARCH REPORT

2019-2020



INNOVATING FOR IMPACT



onevcu
RESEARCH



P. Srirama Rao, Ph.D.

Vice President for Research
and Innovation

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Advancing excellence in VCU research

As with many others, for the entire VCU research community, 2020 was a year like no other. In mid-March, COVID-19 forced the university to shut down almost all research. However, as we slowly returned to research, we adapted and worked to establish safe and creative ways to continue to advance our mission of improving the human condition through exceptionally creative, collaborative and community-engaged research.

In April, the **Office of the Vice President for Research and Innovation**, in partnership with others, began an unprecedented faculty research rapid funding program to support COVID-related projects designed to diminish the impact of the pandemic. Faculty from both campuses competed in all areas, for example: health, education, public policy, business and engineering, as well as the arts and humanities. In the end, **the effort funded 31 projects**; many of which are described in this report.

VCU also moved quickly to bring the most critical COVID-19 related clinical studies and trials to our COVID-19 impacted patients, including the first FDA-approved remdesivir drug trial. Overall, this experience showed us how efficient, effective and resilient our teams can be in the face of complex challenges.

Our non-COVID research continued to excel as we returned to research and VCU ended the fiscal year with an institutional record \$335 million in sponsored funding for research – an 8% increase from the prior year. VCU education researchers won more than \$8 million in federal grants to focus on providing the best training and employment for people with disabilities. Colleagues are developing next-generation rechargeable batteries with a \$2.5 million grant from the U.S. Department of Energy. Grants nearing \$2.3 million from the National Institute of Justice support VCU efforts to develop and evaluate new tools in forensic science. Construction on a research building for the College of Engineering came to a close.

Our talented commercialization teams in Innovation Gateway and VCU Ventures collaborated with faculty to

Watch VP Rao's 2020
"State of the Research"
presentation on the
OVPRI YouTube channel



[CLICK HERE TO VIEW](#)

meet the challenge of COVID-19, moving researchers' inventions from lab to community. In the past decade, we have over 1,500 patents filed (including 172 last year), received over \$26 million in licensing revenue for our inventions, created over 55 startups (including nine last year) with \$64 million in start-up follow on funding, and 42 products in the market which are sold or distributed around the world.

Much of VCU's research is facilitated not just within our colleges and schools, but also within our core laboratories, research institutes and centers, such as Massey Cancer Center, the C. Kenneth and Dianne Wright Center for Clinical and Translational Research, Medicines for All and others. They are drivers of translational research of VCU and contribute to our overall success ranging from drug discovery to public health to community-engaged research.

As we build our research enterprise, we strive to become a top community-engaged urban public research university with a focus on improving the human condition. The university's Strategic Research Priorities Plan, described on the next page, will lead us there and beyond as VCU continues to be a locally relevant, nationally and globally prominent public research university.

Regards,

P. Srirama Rao, Ph.D.

Vice President for Research and Innovation

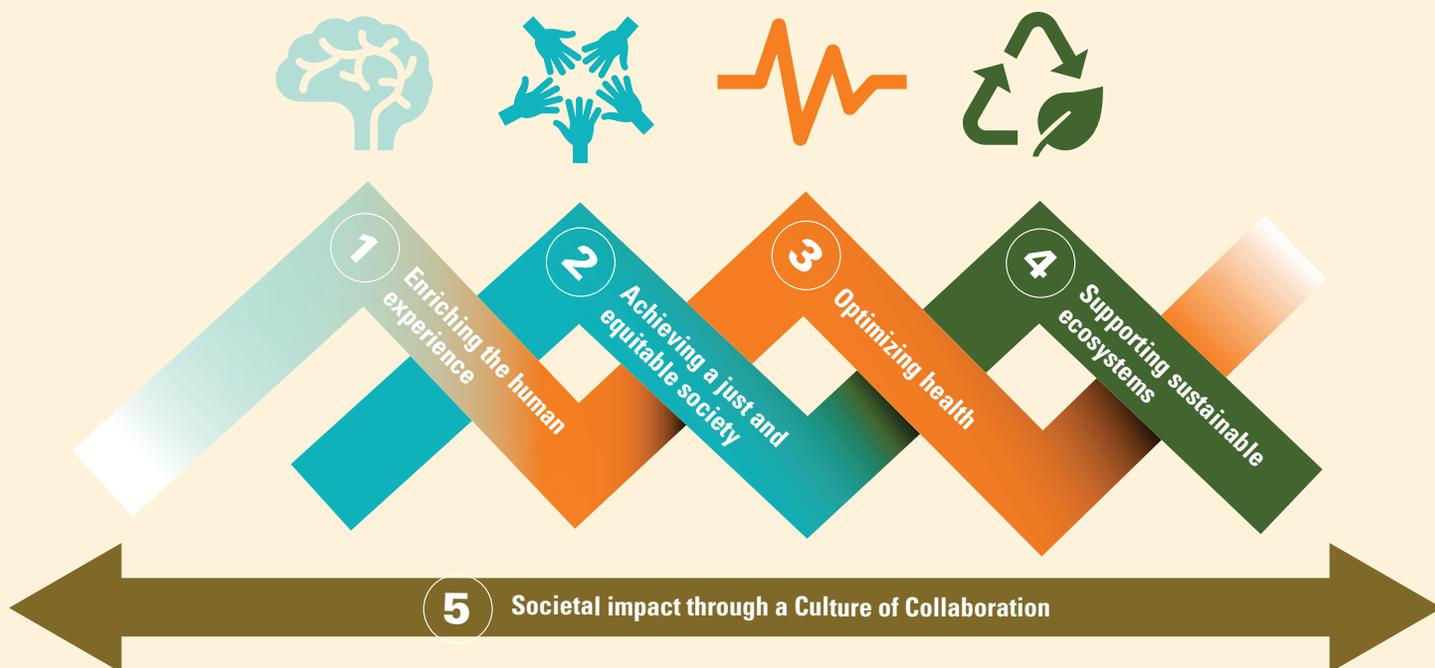
OVPRI mission

*To foster transformative
research, discovery
and innovation at VCU
through excellence in
service and advocacy.*

VCU Strategic Research Priorities Plan

Executive summary

Improving the Human Condition



VCU focuses on achieving social impact through a culture of research collaboration, as set forth in the university's strategic plan, Quest 2025: **Together We Transform.**

To guide the VCU research enterprise in its commitment to research, discovery and innovation, President Michael Rao, Ph.D., and Vice President for Research and Innovation, P. Srirama Rao, Ph.D., convened the Strategic Research Priorities Planning Committee. Co-chairs Kathleen Rudasill, Ph.D., associate dean for research and faculty development in the School of Education, and Michael Donnenberg, M.D.,

senior associate dean for research and training in the School of Medicine, and a group of key faculty and research leaders across both VCU campuses were tasked with creating a bold, ambitious and strategic university-wide plan. **This framework** will streamline investments leading to increased funding and growth, ultimately advancing excellence in research at VCU.

The committee considered current and aspirational areas of research excellence and resources, infrastructure and investment needed to accomplish significant programmatic improvements in the research enterprise. It evaluated VCU’s research funding and expenditures and how to assist schools and colleges in realizing strategic goals and full research potential. The committee sought input from the VCU community and garnered valuable feedback from about 300 researchers reflecting VCU’s diverse and essential perspectives. Subsequently, a team of more than 80 faculty members developed the framework for an implementation strategy as a roadmap to the successful outcomes set forth in the plan. With additional feedback at all stages from university leadership, the plan reflects the goals of all members of the VCU research enterprise.

In support of our overall aim of “Improving the Human Condition,” we will focus on four initiatives:

- **Enriching the human experience**
- **Achieving a just and equitable society**
- **Optimizing health**
- **Supporting sustainable energy and environments**

These initiatives will rest and rely upon the foundation of the plan: **Societal Impact through a Culture of Collaboration.**

This is **One VCU Research**, dedicated to improving the human condition through a culture of creativity, team science, collaboration and recognition. We will respond to needs of societal changes that can be sudden and fundamentally alter our lives. As we emerge from the COVID-19 pandemic and face a new and rapidly evolving landscape, this plan will provide the framework to not only further advance our mission, but to position ourselves to answer the call, whatever it may be. We must nurture our ability to pivot and meet the challenges of the day by developing novel ideas and seizing unique opportunities. An integrated approach across both VCU campuses will move us forward toward our goal: by 2025, VCU will be among the top urban public research universities that is nationally known and internationally recognized for its impact. Implementing the Strategic Research Priorities Plan will allow VCU to accelerate its commitment to addressing society’s most vexing problems and its most urgent needs.

oneVCU | RESEARCH

OUR MISSION

is to enrich the human experience and advance human health and well-being through exceptionally creative, collaborative and community-engaged research.

OUR VISION

is that we are a nationally prominent research institution dedicated to improving the human condition by developing fundamental knowledge and transformative solutions to address the grand challenges facing individuals, communities, our environment and the natural world.

VCU by the numbers

Research excellence

\$335 million

in combined awards for sponsored programs for research

\$158 million

total federal funding

65th

in R&D expenditures among public institutions

1 of 28

public institutions that is both an NCI-designated center and has an NIH Clinical and Translational Science Award

1 of 67

public institutions designated "Community Engaged" and "Very High Research Activity"

4,914

graduate research scholars

330

undergraduate research scholars

Clinical research

879 active clinical research studies across **11** units

572 clinical trials

4,527 active clinical research participants

1,765 enrolled the past fiscal year

326 VCU-designed clinical studies

24 SARS-CoV-2 clinical research studies

243 participants in **15** clinical trials

2,327 participants in **9** laboratory studies

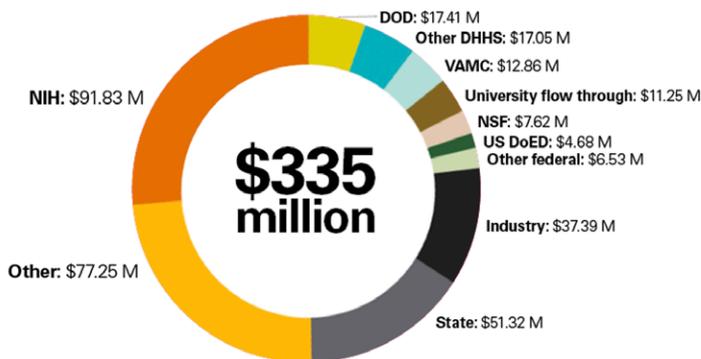
36 faculty-held FDA applications for new drugs/devices

Sponsored program awards, FY 2015-2020

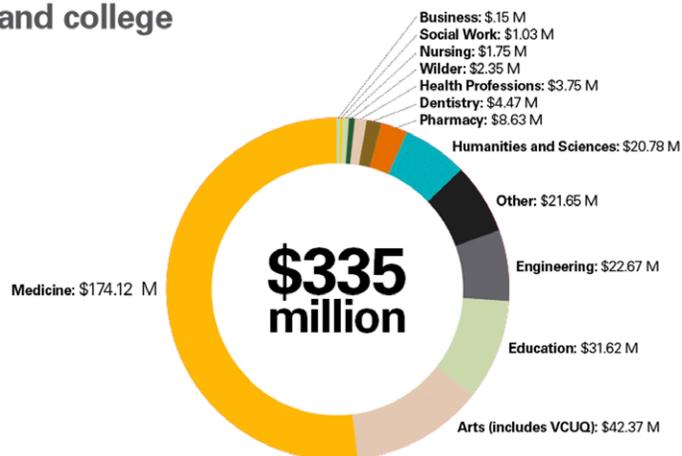


FY2020 Sponsored program awards – up 8%

Awards by source
Up 8% over previous year (\$310M)



Awards by school and college



Commercialization and economic development

Innovation — *cultivating discovery, creativity, originality, inventiveness and talent* — **is a core value of VCU.**

As a premier urban, public research university, VCU serves the local, regional and global communities by translating innovation created at VCU to the marketplace for the public’s benefit. Commercialization is frequently the most efficient path to market and one that contributes to regional economic development.

OVPRI has two units that support commercialization of innovation: Innovation Gateway and VCU Ventures. Innovation Gateway has exclusive responsibility for evaluation of protectability and commercial potential, marketing and licensing of technologies to existing companies and startups. VCU Ventures offers resources to guide faculty and staff through the startup process, navigate the university and regional landscape, and develop innovative programs to validate new ventures.

- 133** invention disclosures
- 166** patents filed
- 19** patents issued
- 22** licenses/options
- 6** licenses to start-ups
- 7** copyrights
- 145** industry engagements
- 10** proof of concept grants
- \$2.5** million licensing revenue
- 51** technologies reviewed for start-up opportunities
- 34** teams/technologies supported for venture creation
- 14** total start-ups supported
- 9** start-ups formed in FY20
- 29** start-ups active in FY20
- 3** Small Business Innovation Research grants submitted

Selected faculty honors and awards

Antonio Abbate, M.D., Ph.D., American Heart Association and American College of Cardiology, fellow

Suzanne Ameringer, Ph.D., American Academy of Nursing, fellow

Christine Bae, Ph.D., National Science Foundation, Faculty Early Career Development Program

Krzysztof Cios, Ph.D., Institute of Electrical and Electronics Engineers, fellow

Henry J. Donahue, Ph.D., American Society for Bone and Mineral Research, fellow

Donna Gibson, Ph.D., American Counseling Association, Extended Research Award

Ram B. Gupta, Ph.D., American Institute of Chemical Engineers, fellow

Mary Hermann, Ph.D., American Counseling Association, fellow

Milos Manic, Ph.D., Institute of Electrical and Electronics Engineers, fellow

Derek Prosser, Ph.D., National Science Foundation, Faculty Early Career Development Program

Stacey E. Reynolds, Ph.D., American Occupational Therapy Foundation, A. Jean Ayres Award

Theresa Swift-Scanlan, Ph.D., American Academy of Nursing, fellow

Gary C. Tepper, Ph.D., International Association of Advanced Materials, fellow

National Academy of Inventors

B. Frank Gupton, Ph.D., fellow

Peter Pidcoe, Ph.D., fellow

Everett Carpenter, Ph.D., senior member

P. Srirama Rao, Ph.D., senior member



Journal lauds Mohamed Gad-el-Hak, Ph.D.

International colleagues lauded the many achievements of Mohamed Gad-el-Hak, professor emeritus in the VCU Department of Mechanical and Nuclear Engineering, on the occasion of his 75th birthday in the Journal of Fluids Engineering. "Homage to a Legendary Dynamicist on His Seventy-Fifth Birthday," authored by six scholars from research universities across the U.S. and abroad, celebrates Gad-el-Hak's many achievements in mechanical engineering and classical physics. Gad-el-Hak joined VCU's College of Engineering in 2002 as chair of mechanical engineering and the Inez Caudill Eminent Professor of Biomedical Engineering. During his tenure, he initiated VCU's graduate and undergraduate programs in nuclear engineering. Read the [full journal tribute](#) to Gad-el-Hak.

VCU welcomes new leaders and facilities to its research community

Shoou-Yih Daniel Lee, Ph.D.



Shoou-Yih Daniel Lee, Ph.D., joined the College of Health Professions as its associate dean for research and strategic initiatives. His research applies theories of social capital, social support and social networks to the understanding of health care organizations and patient behavior.

Amy L. Salisbury, Ph.D.

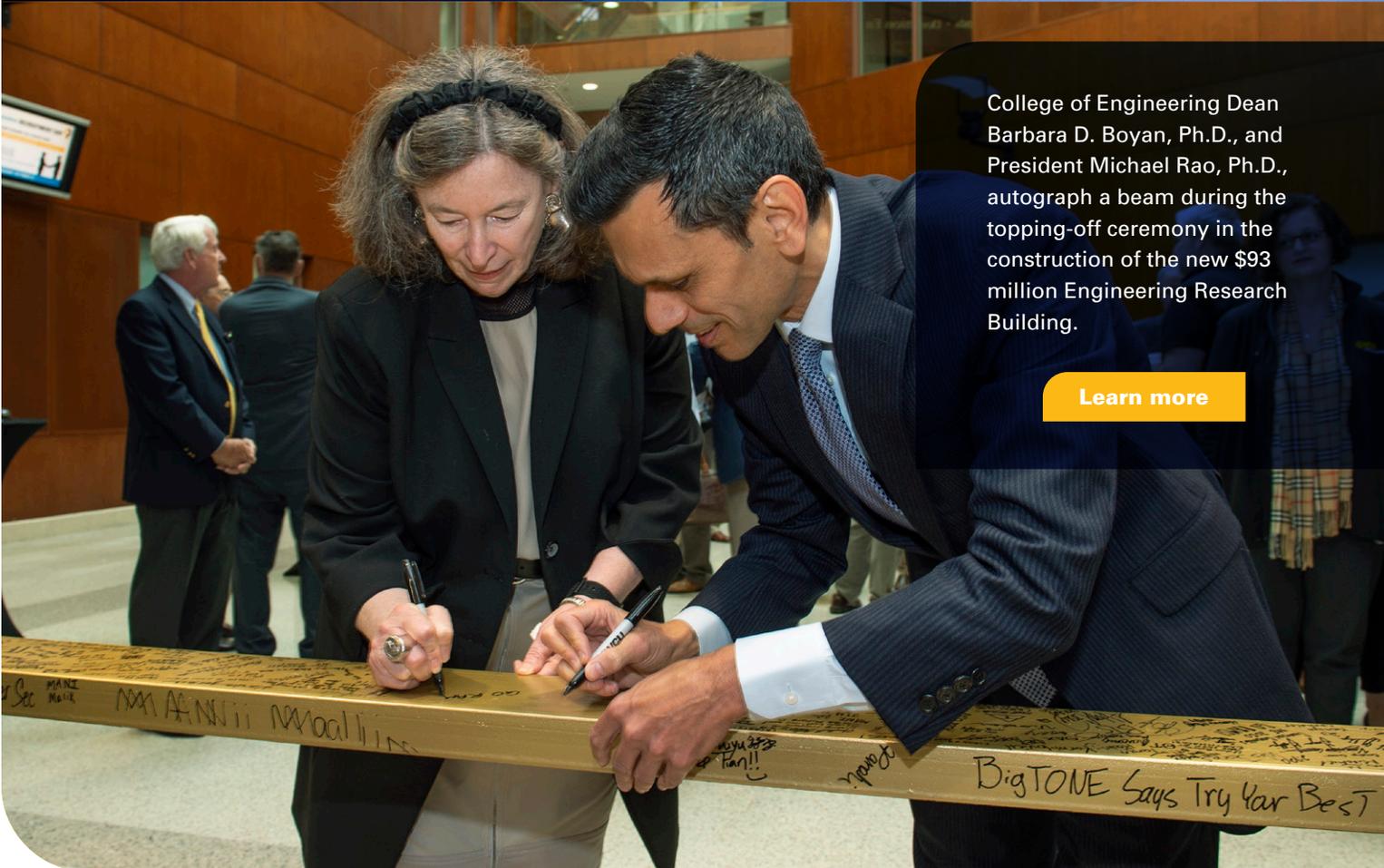


Amy L. Salisbury, Ph.D., is the School of Nursing's associate dean of research, scholarship and innovation. She studies fetal and infant neurobehavioral development in relation to maternal depression and antidepressant treatment during pregnancy.

Robert Winn, M.D.



Robert Winn, M.D., is director of Massey Cancer Center and senior associate dean for cancer innovation, VCU School of Medicine. As a pulmonologist, his research focuses on the translational aspects of the role that proliferation pathways and cellular senescence play in lung cancer.



College of Engineering Dean Barbara D. Boyan, Ph.D., and President Michael Rao, Ph.D., autograph a beam during the topping-off ceremony in the construction of the new \$93 million Engineering Research Building.

[Learn more](#)

One VCU Research: Improving the human condition

VCU faculty across both campuses foster transformative research, discovery and innovation.

Students talking science

[Christine Bae, Ph.D.](#), assistant professor in the School of Education, **studies ways to strengthen science learning** in urban middle schools by focusing on the classroom scientific discourse among students underrepresented in the STEM fields.

Christine Bae, Ph.D.



Her work garnered a National Science Foundation Faculty Early Career Development Program grant. **“Building on Diverse Students’ Funds of Knowledge to Promote Scientific Discourse and Strengthen Connections to Science Learning in Urban Classrooms”** involves studying approximately 15 local middle

schools and employs a mixed-methods approach with teachers and students to enhance the learning and teaching of STEM topics by developing innovative resources, models and tools.

Tracking COVID-19’s economy

As the pandemic began sweeping the country, economist [Adam Blandin, Ph.D.](#), assistant professor in the School of Business, worried about political leaders relying on outdated information as they sought to help

Adam Blandin, Ph.D.



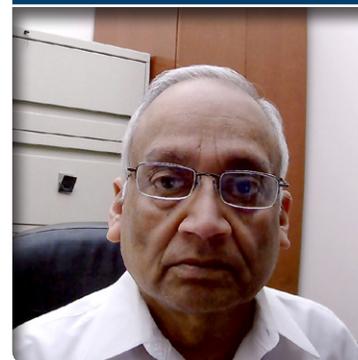
the devastated economy and workforce. Typically, U.S. labor market statistics, which are published with a three-week delay, are sufficient, but not when the economy is cratering.

Blandin, and a colleague at Arizona State University, developed an online survey to provide a more timely, accurate picture of the labor market. Their **Real-Time Population Survey** provides accurate snapshots of the roiling U.S. labor market and its effect on workers several weeks sooner than traditional surveys.

Targeting p53 mutations

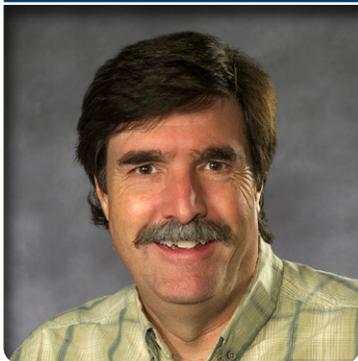
Mutations in the p53 gene are found in more than half of all cancers, yet it remains difficult to target the gene with therapeutic drugs some four decades after its discovery. Massey Cancer Center researchers [Sumitra Deb, Ph.D.](#), professor in the Department of Biochemistry

Sumitra Deb, Ph.D.



and Molecular Biology, and [Brad Windle, Ph.D.](#), associate professor in the School of Dentistry, want to change that with an innovative strategy. **Supported by a \$2.3 million grant from the National Cancer Institute**, they target cancer with a virus specially designed to

Brad Windle, Ph.D.



kill cells containing the mutated gene while leaving cells with normal, tumor-suppressing versions of the p53 gene unscathed.

Alcohol disorders examined

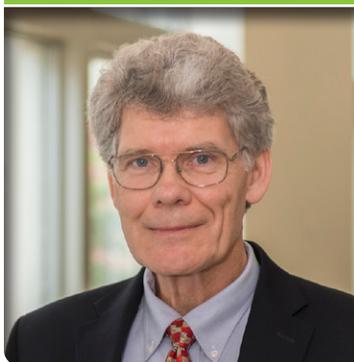
In 2020, VCU received multiple grants to advance our understanding of alcohol related

Danielle Dick, Ph.D.



disorders. They included a new \$3 million grant from the National Institute on Alcohol Abuse and Alcoholism to support work by **EDGE Lab** directors [Danielle Dick, Ph.D.](#), an investigator with the VCU **Alcohol Research Center** and Commonwealth Professor of Psychology and Human and Molecular Genetics, and [Jessica Salvatore, Ph.D.](#), assistant professor of psychology, to explore the development of alcohol misuse and related problems from adolescence into early midlife with the

Michael Miles, M.D., Ph.D.



goal of informing prevention and intervention. The NIAAA awarded a \$7.8 million grant renewal to the Alcohol Research Center for its multidisciplinary

Jessica Salvatore, Ph.D.



pre-clinical and clinical studies of the root causes of alcohol misuse and alcoholism. The center is led by [Michael Miles, M.D., Ph.D.](#), professor of pharmacology, toxicology and neurology at the School of Medicine.

Next-generation batteries

Chemical and life science engineering professor [Ram B. Gupta, Ph.D.](#), is the principal investigator on a \$2.5 million grant from the U.S. Department of Energy to develop **next-generation rechargeable batteries**. By redesigning the materials inside lithium-ion batteries, which power everything from smartphones to

Ram B. Gupta, Ph.D.



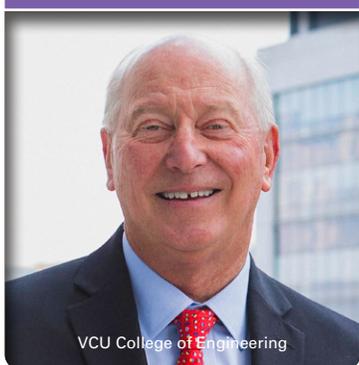
electric vehicles, the researchers believe they can significantly extend battery life, drive down costs and reduce safety risks for consumers. Gupta, also an associate dean for faculty research development in the College of Engineering, and his team are testing an approach for synthesizing material for the battery's cathode. This has

potential environmental impacts beyond the benefits of increased battery life and efficient use of material, in areas such as solar and wind power.

Pharm in the U.S.A.

VCU's Medicines for All Institute led by [B. Frank Gupton, Ph.D.](#), collaborates with industry leaders to expand access

B. Frank Gupton, Ph.D.



to medications by applying advanced manufacturing technologies that curb waste, cut costs and reduce pollution. M4ALL focuses on bringing manufacturing of the most vulnerable pharmaceuticals and their ingredients back to the United States. To lead this effort, Gupton, VCU's Floyd D. Gottwald Jr. Chair in Pharmaceutical Engineering and professor and chair of the Department of Chemical and Life Science Engineering, co-founded Phlow Corp., a public-benefit corporation focused on developing and manufacturing essential pharmaceuticals. In May 2020, [Phlow, with VCU as a major academic partner, received a federal four-year](#)

[contract for \\$354 million to accelerate this initiative.](#)

COVID-19 costs Black businesses

Research by L. Douglas Wilder School of Government and Public Affairs associate professor [Elsie Harper-Anderson, Ph.D.](#), reveals the scope to which [Black Virginians and businesses benefited less](#) from federal relief aid offered by the pandemic-related CARES Act. She found that Black workers have sustained a disproportionate impact and benefited less from the assistance provided. While Blacks represent only 19% of Virginia's labor force, they filed between 22% and 48% of the weekly initial unemployment claims between March and August. Additionally, 62% of Virginia's Black-owned firms were in industries among the hardest hit by closures nationally, compared to only 44% of white-owned firms and 48% percent of firms overall. Harper-Anderson is similarly analyzing the federal response to the current economic crisis.

Elsie Harper-Anderson, Ph.D.



Evicted by COVID-19

After Richmond was identified as the second highest-evicting large city in the country,

Kathryn Howell, Ph.D.



associate professor [Kathryn Howell, Ph.D.](#), and assistant professor [Benjamin F. Teresa, Ph.D.](#), of the Wilder School,

Benjamin F. Teresa, Ph.D.

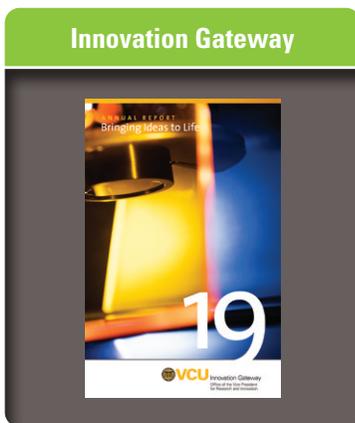


created the [RVA Eviction Lab](#) to expose and erode inequities in evictions across Virginia. The lab seeks to inform policy-making to support stable housing for low- and moderate-income households, facilitate knowledge about community needs and opportunities, and support efforts by affected community members to research and

advocate for themselves. Their recent report, **“Eviction in the Commonwealth during the COVID-19 Pandemic,”** outlines the statewide picture from 2017 to the present to contextualize the landscape for the coming months.

VCU’s entrepreneurial expertise

To support the rapid development of discoveries and inventions to fight COVID-19, VCU makes faculty expertise more accessible to industry, entrepreneurs, hospitals and other researchers. These COVID-19 related technologies include new inventions that are targeted to COVID-19, as well as existing inventions that could be used or modified to fight COVID-19. **Innovation Gateway**, which facilitates the commercialization of university



inventions and promotes industry collaborations and economic development, **offers free ready-to-execute licenses to hospitals and industry partners** to use and/or manufacture certain inventions

and related products in the COVID-19 pandemic. Innovation Gateway endorses and licenses technologies applied to COVID-19 under the terms of the COVID-19 Technology Access Framework.

VCU in cyber-space

The National Security Agency and the Department of Homeland Security designated VCU as a National Center of Academic Excellence in Cybersecurity Defense as well as in Cyber Research. The **CAE program** promotes higher education and research in cyber defense to reduce vulnerability in the national information infrastructure.

Milos Manic, Ph.D.



The VCU Cybersecurity Center, directed by professor **Milos Manic, Ph.D.**, takes an interdisciplinary approach, including its computer science, electrical and computer engineering, information systems and homeland security and emergency preparedness departments. VCU also leads the central Virginia node of the Commonwealth Cyber Initiative,

which supports Virginia’s national and international leadership in cybersecurity, data technologies, autonomy and related emerging technologies.

Twins and teen brains

Through the highly regarded VCU **Mid-Atlantic Twin Registry**, the largest of its kind in the U.S., VCU participates in the federally funded **“Adolescent Brain Cognitive Development Study,”**

Michael Neale, Ph.D.



the largest long-term study of brain development and child health conducted in the U.S. VCU is one of four study sites that has recruited twins to yield

James Bjork, Ph.D.



clarification on hereditary and environmental influences on

brain development. Co-principal investigators of VCU's efforts are [Michael Neale, Ph.D.](#), professor of psychiatry and human and molecular genetics, and [James Bjork, Ph.D.](#), associate professor of psychiatry. The registry of 50,000 individuals of all ages and demographics serves as a vast resource for researchers from around the world studying human genetics.

Remdesivir trial at VCU

In March 2020, a day after the worsening pandemic prompted Virginia's governor to send nonessential workers home, liver specialist [Arun Sanyal, M.D.](#), announced he would lead **a clinical trial of the drug**

Arun Sanyal, M.D.



remdesivir for patients with moderate to severe symptoms of COVID-19. Sanyal's decades of clinical research experience gave him the industry contacts and VCU provided the infrastructure needed to bring promising COVID-19 treatments to patients. Remdesivir became the first Food and Drug Administration-approved treatment for

COVID-19 patients. Sanyal, professor of internal medicine in the VCU School of Medicine, has since led or co-led three other clinical trials on therapeutics for COVID-19, reflecting VCU's commitment and ability to perform multidisciplinary, innovative research.

AR in the OR

An augmented reality technology is nearing the marketplace, backed by VCU's network of services that helps guide a faculty member's idea into development, gain partners and investors for the innovation and eventually find licensure. A **\$50,000 grant to the faculty startup ClearView Surgical Inc.** is helping to refine its AR product for surgical planning and gain customers.

Dayanjan Wijesinghe, Ph.D.



ClearView arose from the efforts of [Dayanjan "Shanaka" Wijesinghe, Ph.D.](#), assistant professor in the Department of Pharmacotherapy and Outcomes Science. The funding is the penultimate step for inventors who work with the **Health Innovation Consortium** and

VCU Ventures, which offers faculty or student startups support to establish a company, locate business entrepreneurs and potential investors, and target a product market.

Insight into U.S. mortality

Since Thanksgiving 2019, [Steven Woolf, M.D.](#), director emeritus of VCU's **Center on Society and Health**, has published remarkable findings on American mortality rates.

Steven Woolf, M.D.



In a paper in the Journal of the American Medical Association, he documented that working-age mortality rates have increased in 48 states since 2010. As COVID-19 gripped the world, Woolf, a professor in the Department of Family Medicine and Population Health, found that deaths attributed to COVID-19 were significantly undercounted and that **for every two deaths attributed to COVID-19 in the U.S.**, a third American died as a result of the pandemic. Two months later, again **in JAMA**, he reported the worrisome news that COVID-19

was the country's leading cause of death.

Recycle that shell

The **VCU Rice Rivers Center's** public-private **Virginia Oyster Shell Recycling Program** won support from the National Oceanic and Atmospheric Administration for its **recycling efforts and stakeholder engagement**. Restoring the oyster population offers multiple environmental benefits.

Todd Janeski



A single adult oyster filters more than 50 gallons of water per day. As oyster reefs expand, they provide habitat for blue crabs, striped bass and red drum and help mitigate storm-induced shoreline erosion. **Watch** program director Todd Janeski explain how the initiative annually collects 125,000 pounds of oyster and clam shells from volunteers and restaurants, returning them to the bay to serve as nurseries for baby oysters. The center's new research building is nearing completion and will further expand our support strategic research initiative on sustainable energy and environments.



As the COVID-19 pandemic increased demand for N95 masks, VCU Health System and VCU Ventures began a pilot program to safely decontaminate used masks. VCU Ventures and hospital staff created a procedure that uses high-intensity ultraviolet light to decontaminate masks hanging from a metal frame as well as the process that tracks the masks for their safe re-use. VCU Ventures made the design and process available to other hospitals and **a report on the effort** was published in the journal *Infection Control & Hospital Epidemiology*.



Watch a video on the N95 mask UV sterilization process

VCU, COVID-19 and race and health inequities



An interview with VCU psychologist Faye Belgrave, Ph.D.

Faye Belgrave is interim dean of equity and community partnerships, university professor, professor of psychology and founding director of the **Center for Cultural Experiences in Prevention** in the College of Humanities and Sciences. Her work is community focused, promoting the welfare of African American adolescents and young adults. More recently, her projects involve substance abuse and sexual education health care, such as HIV prevention and education to Black students and young adults in the community. Her two decades with VCU gives her a unique perspective on the environmental, social and cultural challenges at the university and Richmond as well as on the current global pandemic that is also disproportionately affecting Black Americans: COVID-19.

Q: Over the past two decades, what changes have you witnessed in the types of research conducted by VCU faculty, specifically related to minorities and health inequities?

A: One notable change has been in the interdisciplinary nature of research. Certain faculty have always been interested in health inequities and ways to attenuate these inequities but more and more faculty are coming together from different units to understand and address health inequities. For example, I am a psychologist but was a member of April Kimmel's [an economist in the School of Medicine's Department of Health Behavior and Policy] team to explore geographical and other factors that relate to access to HIV treatment among racial/ethnic groups.

I have also observed more mutually respectful and collaborative community partnerships. In fact, for the [VCU] iCubed cores, these are required. In the past, African American and Latinx communities have experienced health disparities, created by oppressive systems of racism and discrimination, and then studied (mostly by white researchers) who benefited without any real change in the community. I think this is changing as there is more attention and effort devoted to genuine community partnerships so that participants in our studies contribute to and benefit from our research. So, I would say, exploitation of Black and brown people in health disparity research is at least acknowledged as a bad

thing and in some cases, real change is being made.

There are still insufficient numbers of underrepresented minority researchers conducting health disparity research at VCU and elsewhere.

Q: As public health officials try to reach out to communities of color regarding the current pandemic, are there any lessons from the HIV pandemic that might be applicable?

A: As with HIV, we realize that the folks who are most affected by the COVID-19 pandemic are least likely to be the recipients of information and prevention resources. It was only when messages were delivered within African American communities by African Americans including African Americans living with HIV that the seriousness was realized. So, I think public health officials need to think about the delivery of the message. They also must be realistic about the context in which many African American and other racial/ethnic minorities live. Messages and materials delivered in places where vulnerable populations work and live are important. Also, more recently we see large gaps in COVID-19 vaccinations for people of color and other vulnerable populations. These disparities relate to lack of access and not just reluctance on getting vaccinations. Unfortunately, as we see with other health disparities, the people most affected are less likely to be vaccinated.

Q: What can community leaders and public health officials do to encourage people to "trust the science"?

A: Since people of color are more affected by COVID 19, it makes sense to target messages to them. Taking lessons from other prevention and educational messaging programs for people of color (especially African Americans) this would involve faith-based institutions, community organizations and settings indigenous to people of color including social media sites; barbershops and beauty salons have been used as sites for health messages for several types of prevention programming. Finally, messages should be delivered by similar and relatable others including lay community leaders, leaders from faith-based institutions, etc. Having state public health officials making the appeals on television or encouraging folks to visit the [Centers for Disease Control and Prevention website] is not going to be enough.

— *with Emily Komornik, OVPRI communications specialist*

"There is more attention and effort devoted to genuine community partnerships so that participants in our studies contribute to and benefit from our research."



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