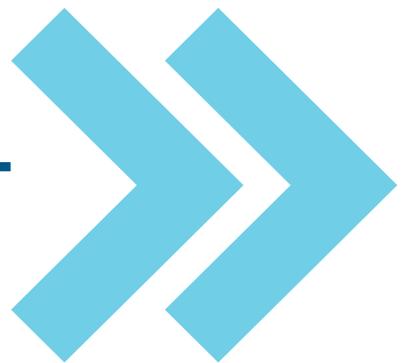


**2022 ANNUAL REPORT**



We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. Committed to diversity and inclusion, the University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.

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**MISSION STATEMENT** ADVANCING THE HEALTH AND WELLNESS OF OUR COMMUNITY AND BEYOND, WHILE EMBRACING DIVERSITY, IN THE PURSUIT OF EXCELLENCE THROUGH INNOVATION IN OUR TRIPARTITE MISSION: EDUCATION, RESEARCH, AND PATIENT CARE.

## Message from the Dean



This year, the University of Arizona College of Medicine – Tucson celebrates the 55th anniversary of its founding. As I reflect on the college's many accomplishments since then, I am reminded that, despite the passage of time, the college has remained true to the founders' vision, training thousands of physicians, medical scientists and educators; conducting cutting-edge research and making pioneering discoveries; and annually providing high quality, compassionate care to hundreds of thousands of patients.

While maintaining an unrelenting focus on its tripartite mission, the college also has adapted and evolved, becoming more inclusive, more diverse and more equitable than ever. These traits are reflected in both our

faculty and student populations, and have helped create doctors, scientists and educators who more accurately reflect – and represent – the populations they will serve in Arizona and beyond.

While we have made great strides in these areas, our work is by no means done. In fact, there remain significant gaps in equity and inclusion, especially in leadership roles at academic medical centers. As you will read in this report, we are working diligently to accelerate change in this area.

The college also has broadened its educational charter beyond the medical doctorate, residency and fellowship programs to include undergraduate, graduate, and dual-degree programs that can lead to medical school, other health-related professional

programs, or directly to any number of careers in research, academia or health care. This expansion of the college's educational offerings will continue as we adapt to meet the needs of the people and communities we serve.

I am honored to lead the UArizona College of Medicine – Tucson in its 55th year as we celebrate our past and embrace a future of continued growth, collaboration and unprecedented opportunity for learners and faculty alike. Please enjoy the college's 2022 annual report.

Sincerely,

MICHAEL M.I. ABECASSIS, MD, MBA  
DEAN, COLLEGE OF MEDICINE – TUCSON  
PROFESSOR, DEPARTMENTS OF  
SURGERY AND IMMUNOBIOLOGY

INTERESTED IN LEARNING MORE ABOUT THE MEDICAL COLLEGE? WATCH THE DEAN'S 2022 STATE OF THE COLLEGE PRESENTATION. VIEW IT AT [MEDICINE.ARIZONA.EDU/ABOUT-COLLEGE/STRATEGIC-PLANNING](https://medicine.arizona.edu/about-college/strategic-planning)



# Strategy in Action

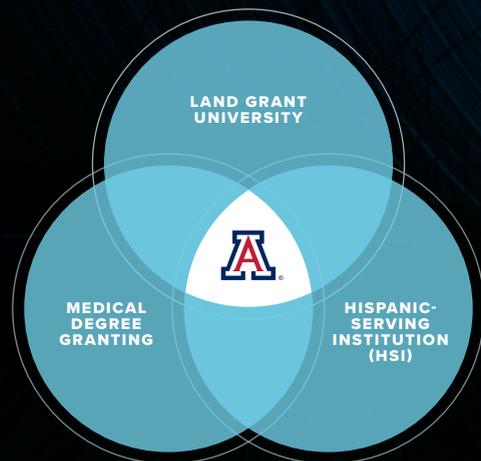
After implementing the first year of the college's strategic plan, college leadership is now focused on tactical execution and monitoring progress toward goals in each of its 29 academic units.

Phase 2 of the plan also has begun: identifying and pursuing opportunities that leverage the college's unique differentiators to propel it to top-tier prominence among the nation's academic medical centers.

As part of one of the nation's top public research universities, the college is uniquely positioned to benefit from intercollegiate collaboration with renowned researchers and academics in fields ranging from optical sciences to agriculture and life sciences, engineering, computer science, business, law and more.

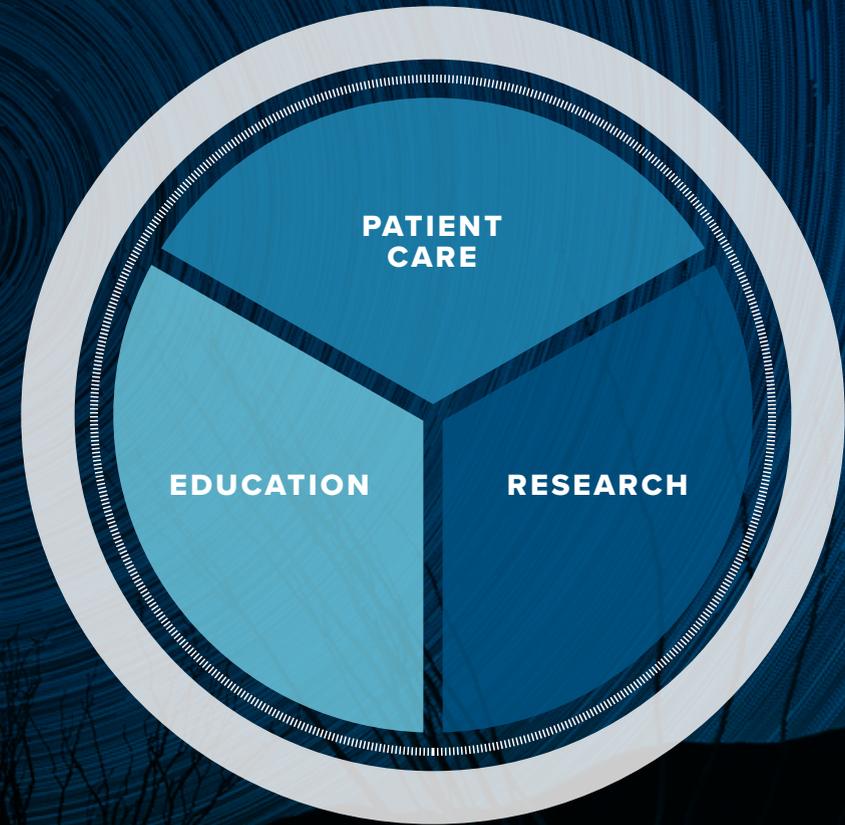
At the same time, the college will strengthen its commitment to promoting and celebrating diversity, achieving equity, and creating inclusionary opportunities for students, faculty and staff.

A continued focus on fiscal responsibility, transparency, and faculty engagement will further strengthen the college's foundation as we continue building a place where great things are happening.



Among 83 public, four-year degree-granting institutions that have at least 20,000 enrolled students and at least \$100 million in average research expenditures, **the University of Arizona is the only one** that also: is a land-grant university; is designated as a Hispanic-Serving Institution (HSI); and grants medical degrees.

# The Tripartite Mission



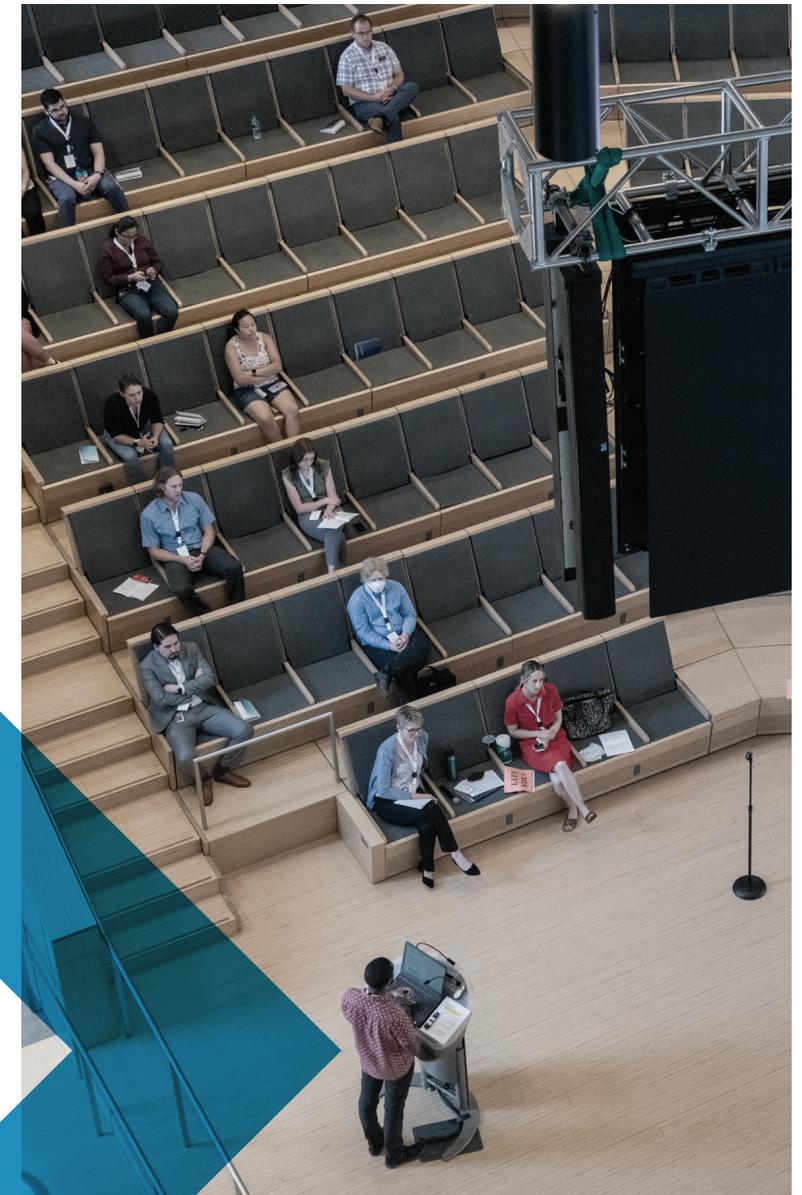
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# Education

Education has been the cornerstone of the College of Medicine – Tucson since its founding in 1967, when the first class of 32 medical students matriculated. Since then, the college has graduated more than 4,500 talented doctors. But that’s only part of the story.

In addition to the 480 students currently enrolled in the MD program, the college’s undergraduate, graduate and dual-degree programs boast more than 2,300 enrolled students, and the graduate medical education program is home to nearly 730 trainees.

OUR PROFESSIONAL, GRADUATE AND UNDERGRADUATE PROGRAMS ARE EDUCATING NOT ONLY TOMORROW’S DOCTORS, BUT ALSO TOMORROW’S SCIENTISTS, ALLIED HEALTH PROFESSIONALS, AND HEALTHCARE WORKERS—ALL OF WHOM ARE NEEDED NOW, MORE THAN EVER, IN ARIZONA AND BEYOND.



## MD Program

Medical students receive hands-on training alongside the clinical faculty at Banner – University Medical Center Tucson, Banner – University Medical Center South, Tucson VA Medical Center, Banner Health outpatient clinics and other locations throughout Arizona.

We are proud to collaborate with Banner Health, the Southern Arizona VA Health Care System and other clinical partners that are dedicated to the education and training of our more than 1,200 medical students, residents and fellows.

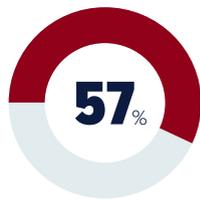
Together, we aim to provide excellent patient care anchored in an educational environment focused on clinical excellence and scientific innovation.

### THE CLASS OF 2026

**120** students matriculated



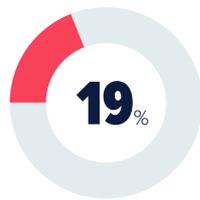
ARIZONA RESIDENTS



WOMEN



FROM MINORITY POPULATIONS UNDERREPRESENTED IN MEDICINE



FROM RURAL COMMUNITIES



FIRST GENERATION IN THEIR FAMILY TO ATTEND COLLEGE

### THE CLASS OF 2022

**115** graduates



OF GRADUATES ACCEPTED INTO RESIDENCY PROGRAMS IN ARIZONA



HOSPITALS WHERE GRADUATES ENTERED RESIDENCIES



STATES WHERE GRADUATES ENTERED RESIDENCIES



OF GRADUATES CHOSE RESIDENCIES IN PRIMARY CARE

## Addressing the Primary Care Physician Shortage

### The Primary Care Physician Scholarship Program

Arizona faces an alarming shortage of physicians, especially in primary care, and particularly in rural and urban underserved areas and populations. Arizona's current shortage of primary care physicians (PCPs) is estimated to be nearly 600 statewide, and workforce projections by the Robert Graham Center indicate that Arizona will need nearly 2,000 additional PCPs by 2030.

The University of Arizona Primary Care Physician Scholarship Program was established in 2019 to address two critical issues in health care: Arizona's shortage of PCPs and the rising amount of student loan debt incurred by medical students.

Medical students at the UArizona colleges of medicine

in Tucson and Phoenix enrolled in the program receive in-state tuition forgiveness in exchange for practicing primary care — defined as family medicine, general internal medicine, geriatric medicine, general pediatrics, general surgery, psychiatry, or obstetrics and gynecology — for two to four years in a rural or urban area in Arizona that lacks adequate health care resources, as designated by the Health Resources and Services Administration.

In the 2021–2022 academic year, the College of Medicine – Tucson welcomed 11 new future PCPs into the program, while the College of Medicine – Phoenix added 12, bringing the total number of participants to 82. The program ultimately will cover tuition costs for approximately 100 medical students.

### LOOKING FORWARD



**The Three-year Medical Doctorate Program for PCPs** In the fall of 2023, the College of Medicine – Tucson plans to introduce a three-year, primary care-focused MD program for a limited number of students. Graduates of the program will automatically enter into a primary care residency at the college, accelerating the rate at which the college can help alleviate the shortage of PCPs in Arizona.

## Dual-Degree Programs

### MD-PhD Program

The MD-PhD dual-degree program prepares students who are planning careers in academic medicine or biomedical research, or who want to pursue formal research training to enhance their clinical skills. Students can pursue doctoral studies in several biomedical sciences and interdisciplinary programs.

Thirty-seven students in the college are pursuing the MD-PhD dual degree. These budding physician-scientists will be prepared to be at the forefront of biomedical discovery and the advancement of medical science.

### MD-MPH Program

Offered in partnership with the UArizona Mel and Enid Zuckerman College of Public Health, the five-year MD-MPH dual-degree program prepares students to improve health at the community level, and to become leaders in the health care field.



#### LOOKING FORWARD

**Supporting Entrepreneurship in Medicine** In partnership with the UArizona Eller College of Management, the medical college plans to offer an **MD-Online MBA program** next fall, which can be completed in four years. This dual-degree program will prepare students for leadership positions in a wide range of health care institutions that increasingly require knowledge of finance and accounting, management, marketing, operations, economics and other aspects of business.

## Graduate Medical Education

Training residents and fellows is an important part of the college's mission, and it currently offers **68** graduate medical education programs across all specialties. We are proud to not only retain medical students who graduate from the college, but also to attract graduates of other medical schools.

### GRADUATE MEDICAL EDUCATION OVERVIEW

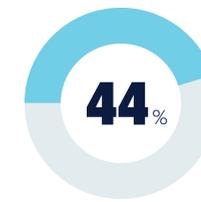
**605** residents

**23** ACGME-accredited residencies

**124** fellows

**45** fellowship training programs

### 170 FIRST-YEAR RESIDENTS



WOMEN

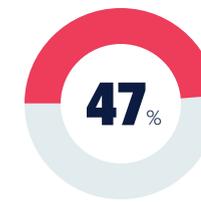


FROM MINORITY POPULATIONS UNDERREPRESENTED IN MEDICINE

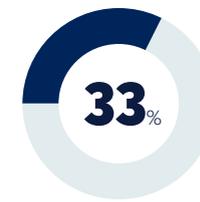


ENTERING RESIDENCIES IN PRIMARY CARE

### RESIDENCY GRADUATES



WENT ON TO FELLOWSHIP TRAINING (2022)



PRACTICING IN ARIZONA (2018-2022)

## Graduate Education

Graduate programs are an important part of the college's mission to educate the next generation of scientists, clinicians and educators. A total of **151** master's and doctoral students are currently pursuing degrees in a variety of areas.

GRADUATE DEGREES OFFERED	MS	PhD	GRADUATE DEGREES OFFERED	MS	PhD
Biomedical Engineering	X	X	Genetics		X
Cancer Biology		X	Medical Pharmacology	X	X
Cellular & Molecular Medicine	X		Molecular Medicine		X
Clinical Translational Sciences	X	X	Neuroscience		X
Cognitive Science		X	Physiological Sciences	X	X

# Undergraduate Education

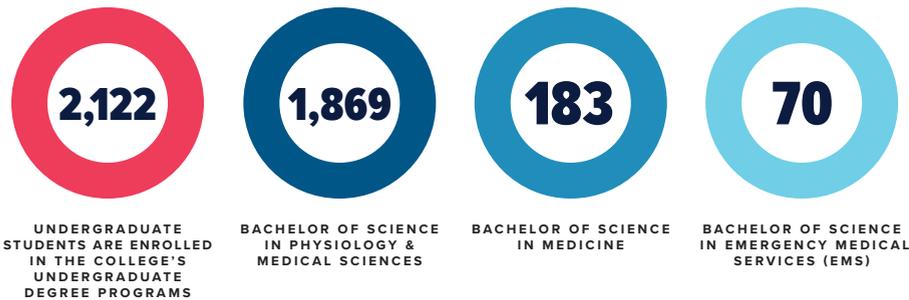
The College of Medicine – Tucson offers three undergraduate degree programs.

With nearly 1,900 undergraduate students, the **Physiology and Medical Sciences bachelor's program** — the only such program in the country offered through a medical school — continues to be one of the most popular majors at the University of Arizona.

The college's newest undergraduate program, the **Bachelor of Science in Medicine**, launched last fall and is also unique in the nation. More than 180 students have enrolled, nearly doubling first-year projections.

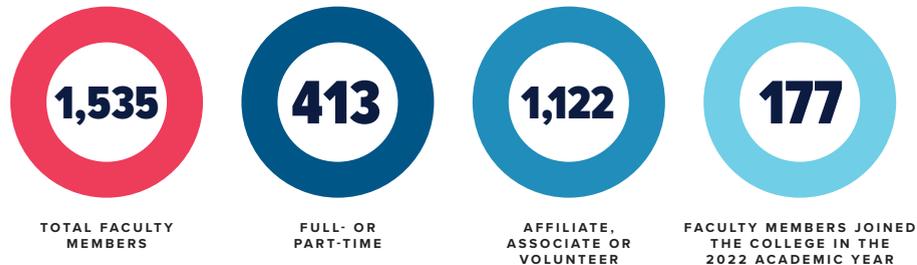
The **Bachelor of Science in Emergency Medical Services** provides paramedics with the education necessary to practice at the highest level and become leaders in their field. This program is specifically designed to meet the unique educational needs of the practicing paramedic. It builds on prior paramedic education by providing the basic science background necessary to adapt to the ever-changing medical field.

## UNDERGRADUATE ENROLLMENT



# Faculty

The college's teaching, research and clinical faculty are at the core of its tripartite mission. Many are nationally and internationally recognized leaders in their fields. Their knowledge is shared through countless publications and presentations, and in lecture halls, research labs, and at the patient bedside.



## Department and Center Leadership

### BASIC SCIENCE DEPARTMENTS

CELLULAR & MOLECULAR MEDICINE Carol Gregorio, PhD	IMMUNOBIOLOGY Janko Nikolich-Žugich, MD, PhD	PHYSIOLOGY <i>Co-directors (Interim)</i> Erika Eggers, PhD Ronald Lynch, PhD Claudia Stanescu, PhD
CHEMISTRY & BIOCHEMISTRY Craig Aspinwall, PhD	PHARMACOLOGY Todd Vanderah, PhD	

### CLINICAL DEPARTMENTS

ANESTHESIOLOGY Kathryn Glas, MD, MBA	NEUROSURGERY Martin Weinand, MD <i>(Interim)</i>	PATHOLOGY Achyut Bhattacharyya, MD
EMERGENCY MEDICINE Samuel Keim, MD, MSc	OBSTETRICS & GYNECOLOGY Chaur-Dong Hsu, MD, MPH	PEDIATRICS Fayez Ghishan, MD
FAMILY & COMMUNITY MEDICINE Kristen Rundell, MD	OPHTHALMOLOGY & VISION SCIENCES Jonathan M. Holmes, MD	PSYCHIATRY Jordan Karp, MD
MEDICAL IMAGING Geoffrey Rubin, MD, MBA	ORTHOPAEDIC SURGERY John Elfar, MD	RADIATION ONCOLOGY Baldassarre Stea, MD, PhD
MEDICINE Mindy Fain, MD <i>(Interim)</i>	OTOLARYNGOLOGY – HEAD & NECK SURGERY Steven Wang, MD	SURGERY Geoffrey Gurtner, MD
NEUROLOGY David Labiner, MD		UROLOGY Benjamin R. Lee, MD, MBA

### CENTERS AND PROGRAMS

ARIZONA TELEMEDICINE PROGRAM Kristen Erps Stewart <i>(Interim)</i>	EMERGENCY MEDICINE RESEARCH CENTER (DEPARTMENT OF EMERGENCY MEDICINE) Samuel Keim, MD, MSc	THE UNIVERSITY OF ARIZONA STEELE CHILDREN'S RESEARCH CENTER (DEPARTMENT OF PEDIATRICS) Fayez Ghishan, MD
ANDREW WEIL CENTER FOR INTEGRATIVE MEDICINE Andrew Weil, MD Victoria Maizes, MD	THE UNIVERSITY OF ARIZONA ARTHRITIS CENTER C. Kent Kwoh, MD	THE UNIVERSITY OF ARIZONA THOMAS D. BOYER LIVER INSTITUTE Geoffrey Block, MD, MSc
CENTER ON AGING <i>Co-directors</i> Mindy Fain, MD Janko Nikolich-Žugich, MD, PhD	THE UNIVERSITY OF ARIZONA SARVER HEART CENTER Carol Gregorio, PhD <i>(Interim)</i>	VALLEY FEVER CENTER FOR EXCELLENCE John Galgiani, MD

# Research

The University of Arizona is one of the nation's 146 *Doctoral/Very High Research Activity*, or "R1," institutions, and among the top 20 public research universities. Arizona's research and development expenditures rank in the top 4% of all U.S. universities, and research funding at the College of Medicine – Tucson has been growing consistently. In the last five years, the college's annual National Institutes of Health (NIH) funding portfolio grew 87% to nearly **\$105 million**, while the total annual research grant funding at the college more than doubled, from **\$81 million** to **\$168 million**.

THE TRUE VALUE OF MEDICAL RESEARCH ISN'T ONLY MEASURED IN DOLLARS. IT IS ULTIMATELY MEASURED IN DISCOVERIES THAT IMPACT PEOPLE'S LIVES. WE'RE EDUCATING AND TRAINING THE NEXT GENERATION OF INVESTIGATORS, WHO WILL CHANGE LIVES BY MAKING NEW DISCOVERIES AND PUSHING TODAY'S MEDICAL ADVANCES EVEN FURTHER.



## Top Five NIH Grants of FY22

Growth in NIH grant funding continued in the last year, with several significant grants received. Following are the top five grants of FY22, by total dollars awarded:

<b>\$2.6</b> million	<p><b>Frank Porreca, PhD</b>  <small>NATIONAL INSTITUTE ON DRUG ABUSE</small>            The Center of Excellence in Addiction Studies (CEAS)</p>
<b>\$2.1</b> million	<p><b>C. Kent Kwoh, MD</b>  <small>NATIONAL INSTITUTE OF ARTHRITIS AND MUSCULOSKELETAL AND SKIN DISEASES</small>            Healthy Knee Aging vs. Osteoarthritis in Three Large Diverse Cohorts: What Is the Clinical Relevance of Structural Changes Seen on Radiographs?</p>
<b>\$1.9</b> million	<p><b>Sairam Parthasarathy, MD</b>  <small>NATIONAL HEART, LUNG, AND BLOOD INSTITUTE</small>            Community-Engagement Research Alliance Against COVID-19 in Disproportionately Affected Communities</p>
<b>\$1.9</b> million	<p><b>Craig Weinkauf, MD, PhD</b>  <small>NATIONAL INSTITUTE ON AGING</small>            Extracranial Carotid Atherosclerosis Contributions to Cognitive Impairment and Alzheimer's Disease Risk</p>
<b>\$1.3</b> million	<p><b>John Streicher, PhD</b>  <small>NATIONAL INSTITUTE ON DRUG ABUSE</small>            Development of Hsp90 Isoform-Selective Inhibitors as a Novel Opioid Dose-Reduction Therapy</p>

## Patent Awards

The College of Medicine – Tucson and Tech Launch Arizona, the University of Arizona office that commercializes inventions stemming from the work of the institution's researchers, celebrated 17 college inventors who received patents in FY22. Tech Launch Arizona works with innovators campus-wide to refine and protect inventions, and to bring them to the world through commercial pathways where they can create social and economic impact.

» Tissue Characterization with Volume Correction	MARIA ALTBACH, PhD
» Cardiac Electrophysiological Mapping	IKEOTUNYE CHINYERE, PhD STEVEN GOLDMAN, MD JORDAN LANCASTER, PhD RUSSELL WITTE, PhD
» Treating Pulmonary Fibrosis with NAMPT Inhibitors	JOE G.N. "SKIP" GARCIA, MD
» Treating Pulmonary Arterial Hypertension	JOE G.N. "SKIP" GARCIA, MD
» Muscle Cell Patches and Uses Therefor	STEVEN GOLDMAN, MD JORDAN LANCASTER, PhD
» ANG-(1-7) Oligopeptides for the Treatment of Pain	MEREDITH HAY, PhD
» Placement of Electrocardiogram Leads	TRINA HUGHES
» Treating and Preventing Chronic Pain	MOHAB IBRAHIM, PhD, MD
» Phase Change Nanodroplet Conjugates For Delivery	TERRY MATSUNAGA, PhD
» Treating an Alphavirus Infection	JANKO NIKOLICH-ŽUGICH, MD, PhD
» Heliox System with Carbon Dioxide Removal	SAIRAM PARTHASARATHY, MD MARVIN SLEPIAN, MD
» Fungal Immunogens and Related Methods	LISA SHUBITZ, DVM
» Biostable Segmented Elastomers and Thermoplastics	MARVIN SLEPIAN, MD
» Flowable Electronics	MARVIN SLEPIAN, MD
» Polymeric Heart Valve	MARVIN SLEPIAN, MD
» Piezo Electric Tissue Properties Measuring System	MARVIN SLEPIAN, MD
» Compositions for Treating Bacterial Disease	MAGDALENE SO, PhD
» Non-Invasive Detection of Stress Biomarkers	ESTHER STERNBERG, MD
» Modified Veress Needle	ANDREW TANG, MD

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# FY22 Highlights

Last year, the college had several notable accomplishments, including national recognition of faculty and significant scientific advances in many areas. Following are some of the headlines from FY22.

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## » SEPTEMBER 2021

### Dr. Nikolich-Žugich Named Arizona Bioscience Researcher of the Year

Janko Nikolich-Žugich, MD, PhD, an internationally recognized immunologist and gerontologist at the UArizona College of Medicine – Tucson, received the Arizona Bioscience Researcher of the Year award from the Arizona Bioindustry Association (AZBio) for his work on aging, immunology, and COVID-19 testing and prevention. In November, Dr. Nikolich-Žugich also received the Gerontologist of the Year award from the Arizona Geriatrics Society for his research on aging and older adults.

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## » OCTOBER 2021

### College-led Study Shows Vaccine Protects Dogs Against Valley Fever

A possible canine vaccine for Valley fever took one giant step closer to becoming a reality thanks to a University of Arizona College of Medicine – Tucson-led study that showed the vaccine provided a high level of protection against *Coccidioides posadasii*, a fungus that causes Valley fever. The development of a potential canine vaccine augers well for a human vaccine. John Galgiani, MD, director of the college's Valley Fever Center for Excellence, has been studying the fungal disease for more than four decades.

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## » DECEMBER 2021

### Dr. Matsunaga Named Fellow of the National Academy of Inventors

Terry Matsunaga, PhD, a research professor of medical imaging at the College of Medicine – Tucson and adjunct professor of biomedical engineering, was elected as a fellow of the National Academy of Inventors. The NAI Fellows Program highlights academic inventors who have demonstrated a spirit of innovation in creating or facilitating inventions that have a tangible impact on quality of life, economic development and the welfare of society. The NAI fellow designation is the highest professional distinction for academic inventors.

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## » JANUARY 2022

### Dr. Li Receives National Recognition for Discoveries in Hand Biomechanics

Zong-Ming Li, PhD, professor of orthopaedic surgery and director of the Hand Research Laboratory, was selected by the American Society of Mechanical Engineers to receive the 2022 Savio L-Y. Woo Translational Biomechanics Medal, which is awarded to an individual who has taken bioengineering science from fundamental lab discoveries toward clinical applications for patients.

### Dr. Gregorio Named a Fellow of the American Association for the Advancement of Science

Carol Gregorio, PhD, professor and head of the Department of Cellular and Molecular Medicine, was one of three UArizona faculty named as fellows of the American Association for the Advancement of Science, the world's largest general scientific society and publisher of the Science family of journals. The designation is one of the highest honors in the scientific community.

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## » MARCH 2022

### President Biden Names College Employee to Intellectual Disabilities Committee

Gabriel "Gabe" Martinez, project aide and peer navigator in the college's Sonoran Center for Excellence in Disabilities, was appointed by President Joseph Biden to the President's Committee for People with Intellectual Disabilities.

Martinez's work at the Sonoran Center is focused on helping people with disabilities become self-advocates in all aspects of life. The center, which is housed within the UArizona College of Medicine – Tucson's Department of Family and Community Medicine, works closely with university, state and local disability agencies and community groups to ensure individuals with intellectual and developmental disabilities have the support they need to participate fully in their community.

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## » APRIL 2022

### College Faculty Members Named Regents Professors

The Arizona Board of Regents voted to confirm the appointments of Donata Vercelli, MD, professor of cellular and molecular medicine and associate director of the Asthma and Airway Disease Research Center, and Juanita Merchant, MD, PhD, professor of medicine, as Regents Professors. The title of Regents Professor is reserved for full professors whose exceptional achievements merit national and international distinction. Regents Professor appointments are limited to no more than 3% of the total number of the university's tenured and tenure-track faculty members.

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## » MAY 2022

### P-MAP Clears Obstacles and Cheers Alumni, Expanding Physician Pipeline

The college honored alumni who completed the Pre-Medical Admissions Pathway (P-MAP), an intensive medical school preparation program that every year accepts 10 promising college graduates from groups underrepresented in medicine or who have faced considerable obstacles on their paths to medical school. Students who successfully complete the program are automatically admitted to the MD program. Five members of the program's first cohort, which matriculated in 2014, completed their residency training in 2022.

### College Celebrates Annual Research Day

More than 500 college faculty, students, trainees, basic scientists, clinicians and community partners gathered to celebrate science and discovery and hear presentations on wide-ranging topics. A highlight of the day was the keynote presentation by Joshua Denny, MD, MS, CEO of the National Institutes of Health's All of Us Research Program.

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## » JUNE 2022

### College Maintains Full Accreditation

Following a comprehensive survey, the UArizona College of Medicine – Tucson was awarded full accreditation by the Liaison Committee on Medical Education (LCME).

# Patient Care

## Caring for the Community: Partnerships of Purpose

Patient care has been an integral part of the College of Medicine – Tucson since its founding 55 years ago. Today, we work with clinical partners, including Banner Health and the Southern Arizona VA Health Care System, that operate hospitals and clinics throughout Arizona.

These partnerships allow for a seamless integration of clinical faculty who work in area hospitals and clinics. In addition to teaching medical students, training residents and fellows, and caring for patients, many clinical faculty members — including some of the best minds in medicine — have subspecialty expertise and conduct groundbreaking research that is cited in top medical publications and translated into real-world therapies that improve lives.

## Banner Health

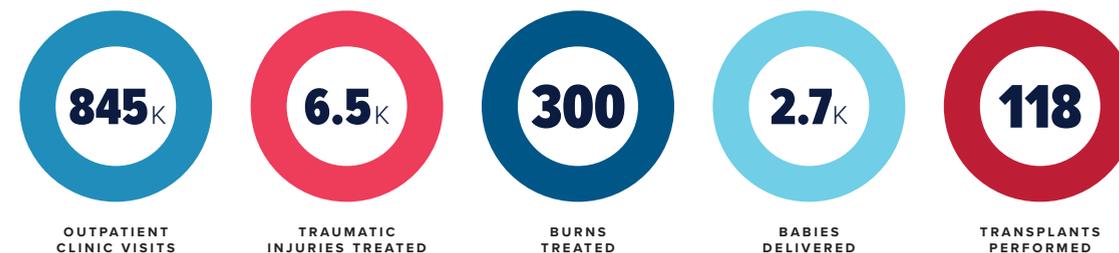
The college's primary clinical partner is Banner Health, which in Tucson operates and treats patients within two large hospitals and multiple specialty clinics:

- > Banner – University Medical Center Tucson
- > Banner – University Medical Center South
- > Diamond Children's Medical Center
- > Diamond Children's Cancer Center
- > University of Arizona Cancer Center



## CARING FOR THE COMMUNITY: FY22

**33K** inpatient admissions    **135K** outpatient registrations



## The Southern Arizona VA Health Care System

Serving nine million enrolled veterans each year, the Veterans Health Administration is the nation's largest integrated health care system. The Southern Arizona VA Healthcare System serves more than 170,000 veterans who can receive health care services at the Tucson VA Medical Center and nine outpatient locations.

## CARING FOR VETERANS: ANNUAL TOTALS

**8.7K** inpatients treated    **5K** surgeries performed    **700K** outpatient visits

## CUP Clinic

CUP, an acronym for Commitment to Underserved People, is a co-curricular student club that provides medical care to underserved populations. Medical students are supervised by volunteer attending physicians as they see patients in specialized clinics for women, families, children, psychiatric patients, asylum seekers, members of the LGBTQ+ community, and others who may have limited access to health care services. Students and trainees involved in the CUP Clinic gain valuable hands-on clinical experience that prepares them to compassionately provide patients with high quality, evidence-based care. In the last academic year, hundreds of patients turned to the CUP Clinic for their health care needs.

# Our Commitment to Diversity, Equity and Inclusion

With nearly a third of the college's medical students self-identifying with populations underrepresented in medicine (URIM), and more than half being women, fostering an environment of inclusive excellence that supports equal access to medical education is imperative to achieving institutional excellence.

## Underrepresented Minority (URM) Enrollment

Last year, the college earned its highest ranking ever as one of U.S. News & World Report's Most Diverse Medical Schools.\*

### U.S. NEWS & WORLD REPORT RANKINGS



MOST DIVERSE MEDICAL SCHOOLS – OVERALL

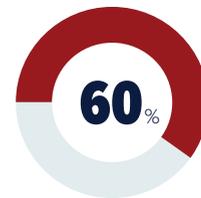


MOST DIVERSE MEDICAL SCHOOLS – PUBLIC UNIVERSITY

### CLASS OF 2026



URIM (CLASS OF 2026)



WOMEN (CLASS OF 2026)

Faculty and staff training is another important aspect of the college's commitment to DEI. In FY22, the college's Office of DEI offered more than 146 training sessions that were attended by a total of more than 7,200 participants.

## Promoting Gender Equity in Leadership

### The Women in Medicine and Science Program

While gender equity among medical students is more balanced now than ever, women continue to be underrepresented in all facets of leadership in academic medicine. In an effort to address this issue, the college recently created a new assistant dean position to lead its Women in Medicine and Science (WIMS) program, which provides mentorship, networking, career development, and leadership education to support institutional advancement for women faculty in the College of Medicine – Tucson.

Work is now underway to create a formal fellowship program within WIMS that will prepare women for successful career progression in academic leadership. The program also will offer other resources that can help accelerate institutional advancement within the college.

\* U.S. News & World Report's Most Diverse Medical Schools ranking is calculated using medical schools' underrepresented minority, or URM, enrollment, and the ratio of the schools' 2021 URM enrollment to the URM percentage in the state where the school is located. According to U.S. News & World Report, underrepresented minorities include students who are Black or African American, Hispanic/Latino, American Indian or Alaska Native, and Native Hawaiian or other Pacific Islander.

# Philanthropy and Development

## Giving Back After Receiving the Gift of Life

In 1979, 22-year-old Bruce Byrd was diagnosed with IgA nephropathy (Berger's disease), an autoimmune disease that hampers the kidneys' ability to filter waste from the bloodstream. Though the disease progresses slowly, Bruce's prospects were grim: His kidneys would eventually fail. At that point, only dialysis or an organ transplant could save his life.

Bruce received his first kidney transplant 10 years later, and the donated organ served him well for 17 years. But organ transplants don't last forever, and at age 50 he received a second. That one expired in 2020. At the height of the COVID-19 pandemic, Bruce was once again seeking a replacement kidney — and being told he might have to wait four to eight years for one in Colorado.

Undeterred, Bruce and his wife learned to administer

his dialysis treatments while he searched for other options. Eventually, he got on the waitlist at Banner – University Medical Center Tucson, where he met Dr. Robert Harland, professor of surgery and vice chair of academic affairs at UArizona College of Medicine – Tucson, and surgical director of solid organ transplantation at the hospital.

Dr. Harland and his team evaluate each patient and each organ, making the extra effort to find potential matches and reduce wait times. They are also working on techniques to improve the function of donated organs and increase the amount of time a kidney or liver can be stored before implantation, allowing transportation over longer distances.

In August 2021, Dr. Harland performed Bruce's third transplant

surgery, and Bruce soon resumed his active life. Filled with gratitude, Bruce and his wife Patty decided to become donors of another — by making a financial contribution in support of future physicians at the UArizona College of Medicine – Tucson. "I really like university teaching hospitals," Bruce said. "If I can be part of the process, helping pass along the knowledge and expertise to future physicians, I'm all in." The Byrds' generous donation helped supply stethoscopes and lab coats for 120 new medical students at the college's 2022 White Coat Ceremony.

"We've got to continue to educate generation after generation of physicians," Bruce concluded. "If my wife and I can do just a little something to help students who are coming in, I'm more than happy to help."



### HOW YOU CAN HELP SUPPORT THE COLLEGE'S MISSION

Many programs and initiatives at the UArizona College of Medicine – Tucson depend on contributions from generous donors. Philanthropic gifts can make a difference for our students, scientists, and community by funding scholarships, enabling life-changing research, ensuring permanent sources of funding for departments' greatest needs, and more.

FOR MORE INFORMATION ON GIVING OPPORTUNITIES, PLEASE VISIT [GIVING.ARIZONA.EDU/SUPPORT/COLLEGE-MEDICINE-TUCSON](https://giving.arizona.edu/support/college-medicine-tucson).



# The University of Arizona Health Sciences

The College of Medicine – Tucson is part of University of Arizona Health Sciences, the statewide leader in biomedical research, health care education, patient care and service, with campuses in Tucson, Phoenix and Gilbert, Arizona.

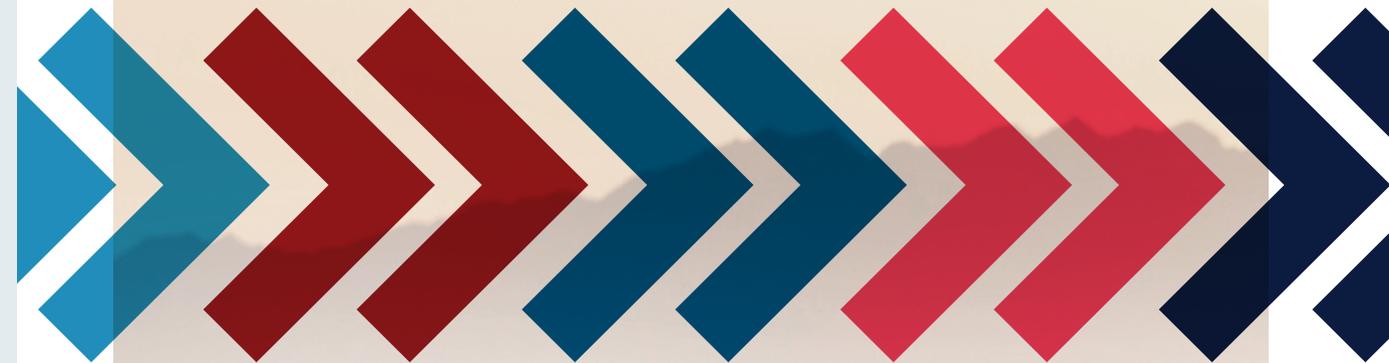
UArizona Health Sciences is home to five health professions colleges: the College of Medicine – Tucson, College of Medicine – Phoenix, College of Nursing, R. Ken Coit College of Pharmacy, and Mel and Enid Zuckerman College of Public Health. In addition, 16 UArizona Health Sciences centers are focused on medical education, outreach, patient care and groundbreaking research.

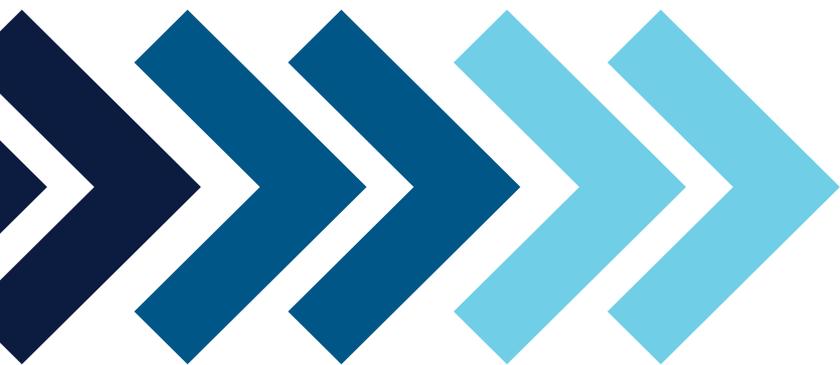
UArizona Health Sciences is in a unique position to address critical global health challenges and is focusing its efforts on five vitally important areas of health care:

- *Next-Generation Education: Preparing students to build and lead the future of health care.*
- *Precision Health Care for All: Designing and developing precision treatments for all populations.*
- *Innovations in Healthy Aging: Influencing the critical factors that affect the health of an aging population.*
- *Creating Defenses Against Disease: Unraveling the complexities of human biology to build better defenses against disease.*
- *New Frontiers for Better Health: Creating new opportunities to develop innovative solutions for global health care problems.*

UArizona Health Sciences research focuses on cancer, neurodegenerative diseases, pain and addiction, and respiratory diseases; biomedical informatics, health technology innovation and simulation training; and health disparities, precision health care and treatments, and pandemic preparedness. Through these strategic efforts, UArizona Health Sciences has unprecedented opportunities to excel in education, research, clinical care and outreach in more and better ways than ever before to improve the health and well-being of individuals in the local community, across the state of Arizona and around the world.

UArizona Health Sciences employs approximately 3,000 people and has approximately 6,700 students and 900 full-time faculty members. Physician-scientists and researchers in Health Sciences colleges, centers and programs garner nearly \$300 million in research grants and contracts annually.





THE UNIVERSITY OF ARIZONA

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