Rewards of Mentorship
Career development is top of mind for Health Sciences researchers
VISION
Transform health care and health science education and research to improve health and health equity for New Mexico and beyond.

MISSION
We exist to lead New Mexico toward health equity through our unique integration of care delivery, education, discovery and innovation and through advocacy and collaborations. We celebrate the diverse cultures and history of our state while creating an inclusive and compassionate community that makes UNM Health and Health Sciences an extraordinary place to study, work and serve.

CORE VALUES
HEALING: Both within individuals and among our communities in order to cultivate hope, care and joy.

EQUITY: For all New Mexicans in health, education and economic opportunity.

EXCELLENCE: In health care, education and research and in building a place where people seek to study, work and serve.

INNOVATION: In all aspects of our mission, enabling us to rise to the health, workforce and economic challenges of our time.

COMPASSION: In how we treat our patients, students, each other and ourselves.

SERVICE: Accountable to our diverse communities across New Mexico.
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As Executive Vice President for Health Sciences and of CEO of our Health System, I’m fortunate to witness the life-changing teamwork and impact made by our faculty, staff and students in all our mission areas. It is an ongoing source of hope and inspiration. This annual report reflects the positive impacts that resonate throughout our community, state, nation and worldwide as a result of our groundbreaking research.

This year was our highest year in research grant funding. This report will showcase a few of the many studies, including on historic multigenerational trauma among Native American populations, movement disorder care and management, cancer etiology and treatments, and the training of the next generation of researchers, just to name a few. Our training grants and career development initiatives are foundational to supporting our research mission. I am pleased to support increasing our extensive institutional support for research career development at the Health Sciences level, including K award and R grant writing, the Office of Research programs, and the CTSC program activities.

The report also shines light on our award-winning researchers whose work in the areas of viruses, neurological and behavioral health, gastrointestinal health, alcohol spectrum disorders, vaccine development and addressing health disparities demonstrate the meaningful progress our team is making toward improving health outcomes.

Since our last Research Report, we have updated the strategic plan for UNM Health and Health Sciences, that builds on the platform of the UNM 2040 Strategic Plan. Both of these plans are accessible on the Internet if you are interested to see the specifics. I am enthused by the energy and commitment of the many participants who shaped the plan, and how the work of the plan continues in implementation teams.

We have set high standards and goals to maintain and enhance our status as a national and global leader in research through investment in key areas such as faculty, career development, new cores, infrastructure, partnerships for collaborative research and pathways for retaining researchers to help solve pressing health challenges.

This is an exciting time to be at UNM. I am so appreciative of everyone’s teamwork and commitment to improve health and health equity through all missions.

Douglas Ziedonis MD, MPH
Executive Vice President for UNM Health Sciences & Chief Executive Officer for the UNM Health System
As a proud UNM alumna, it is truly an honor to serve the research community at UNM Health and Health Sciences as interim Vice President for Research. I look forward to continue working with every single one of you.

I’m very pleased to report that UNM Health Sciences was awarded a record $238 million in extramural research funding during FY 2022, yet another year of growth and advancing science. Our success in obtaining extramural funds at UNM Health Sciences continues to impact New Mexico as we promote health, advance knowledge and improve regional economies.

We play a critical role by bringing together research, education, intellectual and industry partners, communities and state agencies. We support the full spectrum of research – basic science, clinical, population science and implementation – as we continue our work in underserved and rural areas throughout New Mexico to identify barriers and best practices. We are fully committed to New Mexicans to transition from health disparities to health equity research.

In FY22, we continued our COVID-19 research; I am especially proud of our efforts to learn about vaccine hesitancy in pediatric patients, vaccine health equity and increasing vaccine access for vulnerable populations in New Mexico.

Furthermore, our researchers obtained funding from the Department of Defense to study non-invasive brain stimulation to treat mild traumatic brain injury in veterans. The UNM Comprehensive Cancer Center is finding ways to help people who have rare cancer mutations by enabling them to receive personalized cancer therapy. Training the next generation of scientists who will perform the full spectrum of research is a priority for us as an academic center.

The Cardiovascular Research Training Program was funded by the National Institutes of Health for the fifth cycle, and for the first time, the NM-INSPIRES Center grant was funded by the National Institute of Environmental Health Sciences to support investigators conducting basic and translational studies that address the needs and concerns of New Mexico communities related to environmental health issues.

In the coming year, we expect to keep moving research forward: research means hope and it saves lives! We recognize and foster education, science, innovation and teamwork, and appreciate every member of the UNM Health and Health Sciences community who contributes to these efforts.

We will continue to advance knowledge across the research spectrum that ultimately helps people live healthier lives.

**Hengameh Raissy, PharmD**
Interim Vice President for Research, Health Sciences
University of New Mexico Health Sciences investigators are rightly known for their work conducting laboratory, translational and community-based research aimed at diagnosing and curing disease and eliminating health inequities – but that’s just part of their mission.

An important part of a research faculty member’s job is mentoring the next generation of scientists.

At UNM Health Sciences, an array of grants and training programs offers career guidance to bioscience scholars, ranging from undergraduates to post-doctoral fellows and junior faculty members. This institutional support includes K award and R grant writing, Office of Research programs and support from the UNM Clinical & Translational Science Center, the colleges and the School of Medicine.

Mentorship takes many different forms, but most of the programs supporting it are sustained by grant funding from the National Institutes of Health (NIH).

For example, UNM hosts four diversity-themed T32 grants from NIH that support students in the Biomedical Sciences Graduate Program, as well as postdoctoral researchers, says Tom Resta, PhD, professor of Cell Biology & Physiology and senior associate dean for Research Education in the UNM School of Medicine.

The Cardiovascular Research Training Program, which has been in place since 1993, provides funding for
six graduate students and two postdoctoral fellows. “I was actually supported by the grant as a BSGP student,” says Resta, a vascular physiologist who currently serves as the grant’s principal investigator.

“It has served to provide opportunities for under-represented minority predoctoral and postdoctoral trainees to gain research training in cardiovascular (CV) biology,” he says. “This grant has also been a catalyst for the development of an integrated program of research and training in CV sciences at the University.”

Additional T32 grants are in place for alcohol-related research and the study of infectious disease and inflammation, Resta says. And the Initiative to Maximize Student Development is a T32 aimed at promoting greater diversity among future biomedical science researchers.

UNM is also one of 21 institutions to have received an Institutional Research and Academic Career Development Award (IRACDA) from the National Institute of General Medical Sciences, focused on developing a diverse group of biomedical and behavioral scientists.

The award, now in its 15th year, supports UNM’s Academic Science Education and Research Training (ASERT) program, which provides three years of support for postdocs, with 75% effort devoted to research and 25% on education partnerships with Minority Serving Institution partners.

“When I heard about [IRACDA] I thought, ‘This is a perfect program for a place like UNM, where we are a Minority-Serving Institution and a Hispanic-Serving Institution, and we have a very diverse student population,’” says ASERT director Angela Wandinger-Ness, PhD, a professor in the Department of Pathology and the Victor and Ruby Hansen Surface Endowed Professor in Cancer Cell Biology and Clinical Translation at the UNM Comprehensive Cancer Center.

Four ASERT fellows join the program each year, making for a total of 12 participants at any given time. They are assigned faculty mentors and meet together monthly as a group, tending to bond as they discuss their research. “They start together,” she says. “They create this network where they can share common goals or problems they're facing.”

The program has ASERT fellows working part-time at local Minority-Serving Institutions to gain experience teaching and mentoring minority students.

“The goal of that partnership is to have the fellows work with individuals who are involved heavily in teaching minority students who may not have role models or who may not have the opportunity to even get any sense of what research is about,” Wandinger-Ness says.

Her devotion to career development was recognized by the American Association for the Advancement of Science with its 2020 Lifetime Mentor Award, and Wandinger-Ness has been credited with having mentored nearly 300 trainees over three decades. But she points to some key mentors who encouraged her early in her career.

“It’s really important to give others the opportunity to find their path and their passion in science – or to figure out it’s not for them,” she says. “That really requires mentorship and talking with people. I love it, especially when I can do the research alongside of it.”

Another signature initiative is the KL2 Mentored Career Development Program, run through the UNM Clinical & Translational Science Center (CTSC). The KL2 scholars are junior faculty members who are developing their ability to secure independent research funding.

Four faculty members at a time are enrolled in the program for periods of up to five years, says program director Judy Cannon, PhD, an associate professor in Department of Molecular Genetics & Microbiology. They generally have 75% of their time protected so they can focus on research.
“The NIH funds the positions, which pays for the scholars and some of the research,” she says. “They each have a clinical and a basic research mentor – usually senior faculty who are experts in that area.” Past participants have had success in achieving R0-1 grant funding, in large part due to the mentorship they have received, Cannon says. “This program has been highly successful. For those of us who had good mentors, you want to give back.”

Cannon recently took over as program director from Matthew Campen, PhD, a professor in the Department of Pharmaceutical Sciences. There is an expectation that the participants will publish two papers a year as first or last author, and that they will be writing proposals for internal pilot grants so that by the end of their second year in the program they will be ready to submit proposals for extramural grants, he says.

“It’s not about the money, it’s about the getting the experience in writing and having a line in the CV that makes you look more competitive in seeking NIH funding,” Campen says, noting that only one out of 10 mature faculty scientists will get funded in each round of grant awards.

Bryce Chackerian, PhD, Regent’s Professor and the Jeffrey Michael Gorvetzian Endowed Professor of Biomedical Research Excellence in Molecular Genetics & Microbiology, says mentoring plays an important role at UNM Health Sciences.

“It used to be unusual,” he says. “It used to be that there was a bit of sink-or-swim mentality. That definitely did not apply to me. I’ve had outstanding mentors throughout my career who’ve given me tons and tons of help. Now there are way more formalized ways of providing support to people.”

Effective mentorship entails seeing the trainees in full.

“Traditionally, faculty members are most comfortable talking about the science,” he says. “Part of it is just recognizing that there are additional needs that trainees have. I think being a good mentor is being a good person – listening to people. Sometimes I don’t have a lot of advice, but I can listen.”

Chackerian, who also as serves as director of Postdoctoral Affairs, calls mentoring “the best part of my job. Seeing people succeed and find their careers is very rewarding.”
The UNM Transdisciplinary Research, Equity & Engagement (TREE) Center, funded by the National Institute on Minority Health and Health Disparities, also plays a significant role in providing career support to faculty members from Underrepresented Minorities. Since 2018, the program funded and supported 20 emerging scholars on 19 pilot research projects.

Through March 2022, TREE Center pilot project principal investigators produced 266 scholarly products, including one published book, two research reports, four policy briefs, five published book chapters, six diverse media products, 22 funded grants linked to TREE Center focus areas, 60 peer-reviewed journal articles, and 83 community and academic presentations.

Meanwhile, the UNM Undergraduate Pipeline Network (UPN), a program that allows undergraduate students to explore their interests in research and health sciences, is hosting its 14th cohort. The project provides students with essential skills needed for higher education and offers a path to discover new interests. The program provides the opportunity for students to choose from several areas of research at UNM Health and Health Sciences.

Research topics include biochemistry and molecular biology, neurosciences, pathology, brain and behavioral illnesses, cancer, child health research and more. The program period covers 10 weeks in the summer and scholars participate in the program a minimum of 40 hours per week.

“The whole idea is to get students involved in research,” says UPN program director Jennifer Gillette, PhD, an associate professor of Pathology in the School of Medicine. “The goal is to get these students exposed to research, because a lot of them haven’t had an opportunity like this before. It’s really hard to know what you want to do if you don’t know what’s available to you.”

HOW MENTORING MADE A DIFFERENCE FOR ONE SCHOLAR

When Kathryn Frietze completed her PhD in biomedical sciences at The University of New Mexico in the spring of 2010 she found herself at a crossroads.

“At the time I was pregnant with my daughter,” she says. “I was trying to figure out what to do with my life, how to balance having a family, being a scientist, and if I wanted to stay in New Mexico.”

She reached out to Bryce Chackerian, PhD, now the Regents’ Professor in the Department of Molecular Genetics & Microbiology (MGM), in whose lab she had done a rotation as a graduate student, to see if she could do a postdoc with him.

“Bryce is and was an excellent mentor for me and many other people here,” she says. The experience helped her clarify her options. “I realized that I really enjoyed research and I wanted to continue doing research in an academic setting.”

Frietze focuses on using virus-like particles to craft vaccines targeting various conditions. She currently is developing a vaccine to protect against chlamydia infections and another capable of blocking opioid receptors in the brain to protect against substance use relapse.

In 2016 she joined a program that would put her on track to join the MGM faculty, and a year later, she applied to the KL2 mentored scholars program, which pairs participants with multiple faculty mentors.

Frietze now counts as mentors Thomas Byrd, MD, director of the Center for Infectious Disease and Immunity, and Judy Cannon, PhD, associate professor in MGM and KL2 program director. Previous program director Matt Campen, PhD, “was highly involved in mentoring me and the other scholars,” Frietze says.

Frietze completed the KL2 program earlier this year as an assistant professor with her own lab and an R01 grant from the National Institutes of Health. She’ll be going up for tenure soon.

“I probably had more mentoring than most people get,” she says. “I’ve told other people if I was going to fail, it was going to be completely on me, because I had every support possible. Everything was set up for me to succeed.”
University of New Mexico Health Sciences researchers are continually on the hunt for new diagnostics and therapeutics to treat disease, work that will benefit New Mexicans – and ultimately the entire world.

But that research activity, which in FY 2022 was supported by nearly $240 million in extramural funding, also provides substantial economic benefits, both to the University and the state as a whole.

Grant funding from the National Institutes of Health and other entities supports employment for highly trained personnel who are conducting basic and translational research – which in turn is sowing the seeds for new biotech startups that are creating jobs in New Mexico.

In fact, 70-plus startups have been launched over the past 20 years resulting from research conducted at UNM Health Sciences, and more than 160 inventions and patents have been logged in just the past four years.

“There is a lot of research that has been converted into products and things that are out there in the marketplace,” said Lisa Kuuttila, CEO and chief economic development officer for UNM Rainforest Innovations, the entity charged with commercializing new technology developed at the University.

A prime example is Intellicyt, an Albuquerque-based firm started in 2006 that manufactures high throughput flow cytometry equipment based on technology co-invented by Larry Sklar, PhD, a retired professor in the UNM Department of Pathology. “That’s a very early one from the Health Sciences Center,” she said.

A more recent startup is Circular Genomics, which is commercializing circular RNA technology developed by Nikolaos Mellios, PhD, an associate professor in the Department of Neurosciences. Circular RNAs are non-coding bits of genetic material that play an important role in brain function.

“Their initial product will be a diagnostic for what type of depression a person has so that they can be treated with the right medication,” Kuuttila said. “Long term, it could potentially treat various mental health conditions.”

UNM’s technology transfer policy allocates 40 percent of the royalties it receives from licensees to the inventors, 40 percent to UNM Rainforest and 20 percent to the University itself, she said.

Inventors often play some role in a new startup company, sitting on a scientific advisory board or even taking a sabbatical to play a more active part, Kuuttila said. “The activity has grown over the years, for sure, both in terms of new inventions that we get from Health Sciences, the number of patents that ultimately get issued based on that work and startup companies.” The financial rewards to the University from newly licensed technology are just part of the picture, she said.

“Across the country, universities really care about commercialization of their research results. Money is one piece of it, of course, but the public benefit is the first priority for us and for the market,” she said. “We can get new discoveries into the market from Health Sciences as a direct benefit to patients and doctors who are trying to diagnose and treat various conditions. The public benefit is tremendous. It can be transformative.”

New biotech startups provide broader benefit to the community in terms of job creation, Kuuttila said. Circular Genomics has fewer than 10 employees in its early stage of development, while Intellicyt employs about 120 people, with an average salary of close to $100,000. “These are high-paying jobs,” she said. “These are the kind of jobs we want to be creating in our state.”

UNM Health Sciences is also playing an important role in fostering New Mexico’s emerging biotechnology sector. UNM plays a central role in supporting the New Mexico Bioscience Authority, which was created by state
statute, said Ryan Cangiolosi, director of Economic and Community Development for UNM Health Sciences.

Its board includes two representatives each from UNM, New Mexico State University and New Mexico Tech, with administrative duties handled at UNM. Its president is David Perkins, MD, MPH, professor of Medicine. “In 2022 we had a stellar year with regards to several programs we had been working on,” he said.

The Bioscience Authority’s Community Readiness program works with cities and counties to identify turnkey-ready facilities that can be used by bioscience startups looking to relocate to New Mexico.

The Bioscience Authority also coinvested in a pilot grant for a flow cytometry startup, Cangiolosi said. “We were able to help them in a crunch time. It takes that consistent raising of money until you can start making money.”

Douglas Ziedonis, MD, MPH, executive vice president for Health Sciences and CEO of the UNM Health System, has made the technology transfer and commercialization a priority, Cangiolosi added. “He made economic development one of the pillars of the strategic plan.”

Meanwhile, UNM cancer researcher Eric Prossnitz, PhD, a Distinguished Professor in the Department of Internal Medicine, helps lead ASCEND, a regional technology transfer accelerator hub for universities in seven Mountain West states funded by a Small Business Technology Transfer award from the National Institute of General Medical Sciences.

“They role is to help researchers take their innovation to market as a product,” Cangiolosi said.
The Promise of AUTOPHAGY

Judy Cannon, PhD, and Michael Mandell, PhD
The University of New Mexico’s Autophagy, Inflammation and Metabolism (AIM) Center of Biomedical Research Excellence is a technological hub for cutting-edge research in a promising area of biomedical study.

Situated in Reginald Heber Fitz Hall on UNM’s North Campus, the AIM Center is known for research on autophagy and its intersections with inflammation and metabolism in the disease process. It affords a valuable resource for developing innovative approaches for treating a wide spectrum of diseases.

“A new tool – a new process – is always precious,” said AIM Center director Vojo Deretic, PhD, chair of the Department of Molecular Genetics & Microbiology in the UNM School of Medicine. “We don’t always come across those things. That’s why the Center and the worldwide community of scientists are engaged in studying this process.”

Deretic, who received his undergraduate, doctoral and postdoctoral education in Belgrade, Paris and Chicago, is one of a small group of scientists from around the world who have contributed to the understanding of autophagy.

What exactly is autophagy? Derived from the Greek words “autos,” meaning self, and “phagomai,” meaning to eat, autophagy is a process that acts as the body’s cellular recycling system. Over time, cell parts can become defective, deposited as waste inside an otherwise healthy cell. Autophagy enables the cell to disassemble its debris, repurpose the salvageable bits and discard the parts it no longer needs.

Scientists have increasingly focused on autophagy over the past 50 years.

The identification of autophagy-related genes in yeast in the 1990s allowed researchers to deduce the mechanisms of autophagy, which eventually led to the award of the 2016 Nobel Prize in Physiology or Medicine to Japanese researcher Yoshinori Ohsumi, who also demonstrated a similar process in humans.

“It’s rare that only one person gets it, but he was the sole winner that particular year,” Deretic said. “And him winning the Nobel Prize for autophagy tells you the significance for the broad range of disease and health, and that it holds promise.”

AIM Center researchers study how autophagy intersects with a wide spectrum of diseases with metabolic and inflammatory aspects. “You have autophagy, inflammation and metabolism, so that’s why the Center is called AIM,” Deretic said. “It really coalesces a lot of different things and it’s a big tent for many different interests.”

Studies have shown that problems with autophagy may be associated with a number of diseases, including certain cancers, diabetes, Parkinson’s and Alzheimer’s, he said.

“There is a direct link in autophagy and those diseases,” Deretic said. “We don’t have a whole lot in our arsenal to either prevent or slow them down properly, so there are a lot of unmet needs where autophagy can provide new avenues for treatment.”

Similarly, autophagy plays an important role when it comes to aging and longevity, Deretic said. As a person ages, autophagy becomes less efficient, which can lead to a build-up of cellular waste – and, in turn, cells that aren’t functioning at their best.

During Phase 1 of a five-year National Institutes of Health (NIH) grant awarded in 2018, Fitz Hall was renovated to accommodate facilities and equipment to support the Center’s research.

“The renovation allowed us to make this nice space for the Center in the existing old shell of Fitz Hall,” Deretic said.
The grant’s first phase also began to allow the AIM Center to lend support to junior and senior investigators through multi-year projects and pilots and fostering international collaborations.

During Phase 1, mentored junior faculty members won seven independent R01 grants, including four from Molecular Genetics & Microbiology: associate professor Xuexian Yang, PhD, associate professor Michael Mandell, PhD, assistant professor Eliseo Castillo, PhD, and assistant professor Alison Kell, PhD.

Grants were also awarded to Meilian Liu, PhD, associate professor of Biochemistry & Molecular Biology, Nikolaos Mellios, MD, PhD, assistant professor in the Department of Neurosciences, and Prashant Nighot, PhD, formerly an assistant professor in the Department of Internal Medicine.

“Those (grants) are not easy to get, so this is a big incubator for those kinds of things,” Deretic said. “I think that’s such a big accomplishment, because it enabled these individuals to get their independent funding.”

As scientists collect more evidence about the relationships between autophagy and certain diseases, a clearer idea will begin to emerge of how this process may play a role in certain conditions and long-term health, Deretic said.

“This injection of funding is about building infrastructure, broadening the research capacity and bringing together a community of scholars,” he said. “We want to bring up all these junior researchers and help them establish their careers. That’s one of the main goals of the center. And with that comes the science, the research and publications.”

NIH Phase 2 support for the AIM Center began Sept. 1, 2022.

“Now we’re in the first year of Phase 2, and we’re mentoring another set of junior faculty,” Deretic said. “This is probably still going to last for a while, for the benefit of everyone at the Health Sciences Center.” The AIM Center is supported by consecutive five-year, $11 million grants from the NIH, and is funded as a Center of Biomedical Research Excellence by the National Institute of General Medical Sciences.
CUTTING-EDGE RESEARCH
Few academic health centers of our size are fortunate enough to have both a Clinical and Translational Science Award and a cancer center with comprehensive designation from the National Cancer Institute. These serve as the foundation of our ability to conduct cutting-edge research with an eye toward meeting the specific needs of our communities.

This work rests on an ability to create partnerships with communities to build trust and gain input in identifying key research priorities. In our experience, this is key to conducting studies whose outcomes will have a meaningful human impact.

Our state-of-the-art facility enables us to provide the best possible animal care for all teaching and research programs that use animals.

Cancer Center Cores and Shared Facilities
Analytical & Translational Genomics
Animal Models
Behavioral Measurement & Population Science
Bioinformatics
Biostatistics
Flow Cytometry
Fluorescence Microscopy
Human Tissue Repository & Tissue Analysis

CTSC Cores and Shared Facilities
Biostatistics, Epidemiology & Research Design Support
Community Engagement & Research Core Informatics
Participant Clinical Interactions/Clinical Research Unit
Translational Laboratory
Regulatory Knowledge & Support

Other Cores and Shared Facilities
Animal Resource Facility
Electron Microscopy
Pre-Clinical Imaging Core (7T MRI, Paul)
Human Imaging Research Core
Integrated Molecular Analysis Core (analytical chemistry, COBRE P20GM120422, Feng)
Pre-Clinical Core (rodent behavior, imaging, histology, P20GM109089, Cunningham and Brigman)
Clinical Core (neuropsychology, brain stimulation, neuroICU data, P20GM109089, Campbell and Torbey)
Autophagy Core
Inflammation & Metabolism Core

Research Training Support
Cardiovascular Sciences T32 (Resta – six graduate and two postdoctoral positions)
Fetal Alcohol Exposure T32 (Valenzuela – five graduate positions)
Infectious Disease T32 (Ozbun - five graduate positions)
Initiative to Maximize Student Development T32 (Kanagy, Cannon, Chackerian – five graduate positions)
NATIVE KNOWLEDGE
Health Sciences Researchers Build Record of Engagement with American Indian Communities

From tribal communities close to home to reservations far afield, University of New Mexico Health Sciences researchers have developed a broad network of partnerships in Indian Country. They are working to understand and address multiple health concerns, from diabetes to dementia to toxic exposures and mental health.

Healing Intergenerational Trauma
Maria Yellow Horse Brave Heart, PhD, a research associate professor in the Department of Psychiatry & Behavioral Sciences, launched the Iwankapiya-Healing study, a National Institute of Mental Health-funded project to help American Indians heal from historical trauma arising from centuries of genocide. Working in the Dakotas and the Southwest, Brave Heart compared group interpersonal therapy sessions with sessions that combine group interpersonal therapy with the Historical Trauma and Unresolved Grief intervention that Brave Heart developed.

“In the Dakotas, the boarding schools were notoriously abusive or perceived as abusive by people,” says Brave Heart, who is Hunkpapa and Oglala Lakota. “What we do is talk about the impact of boarding schools on our people and the traumas that emerge from that.”
Multigenerational trauma leads to heightened risk for a laundry list of emotional problems, she says. “PTSD, depression, anxiety, difficulty sleeping – all of those kinds of things are framed in reaction to this massive group trauma and how it’s been passed on.”

**Addressing Disparities in Alzheimer’s Diagnosis**

Health Sciences researchers are developing a culturally appropriate toolkit to evaluate American Indian patients for Alzheimer’s and other dementias. Addressing Alzheimer’s Disease and Related Dementias Disparities: The American Indigenous Cognitive Assessment is supported by a $10 million grant funded by the National Institute on Aging.

Tassy Parker, PhD, RN, the director of the UNM Center for Native American Health, is collaborating with researchers from the University of Minnesota Duluth and the University of Wisconsin–Madison.

“We’re applying an Indigenous theory of blending Indigenous knowledge and wisdom on equal footing with Western science for the benefit of elders, their families and their communities,” said Parker, professor in the Department of Family & Community Medicine and an enrolled citizen of the Seneca Nation. “By achieving our study aims we’ll deliver the first culturally adapted cognitive assessment battery for American Indian adults in the U.S.”

**Tailoring Behavioral Health Interventions for Diverse Populations**

The Transdisciplinary Research, Equity and Engagement Center for Advancing Behavioral Health (TREE Center), funded by a five-year, $7 million grant from the National Institute on Minority Health and Health Disparities, brings together researchers from across the University to develop more effective behavioral health interventions for the state’s under-resourced, racially, ethnically and geographically diverse communities.

Center director Lisa Cacari Stone, PhD, associate professor in the College of Population Health, says the center strives to partner with under-served communities to conduct solutions-focused research with them, rather than on them. The researchers study how social determinants, including historical trauma, adverse childhood experiences and the combined effects of poverty and discrimination, affect behavioral health.

Another goal is to build the underrepresented minority research workforce. “UNM is well positioned to train and mentor Native American minorities,” Cacari Stone said. “As it is now, Native American researchers receive less than 1 percent of NIH funding and Latinos are under-represented. We need to focus on training and retaining these researchers.”

**Partnering for Community-Based Participatory Research**

Nina Wallerstein, DrPH, a professor in the College of Population Health and director of the Center for Participatory Research, developed an intergenerational family-and-culture-centered substance abuse prevention program, working with people at Jemez Pueblo, the Ramah chapter of the Navajo Nation and the Mescalero Apache community.

The Family Listening/Circle Program works with 4th graders and their families to recapture traditional forms of cultural transmission, such as family dinner storytelling where elders connect with children, and supports enhanced child-family communication and psycho-social coping through traditional dialogue, Indigenous languages and empowerment.

The project aims to strengthen tribal research capacities by illustrating how community-based participatory research can integrate evidence-based and culture-centered practices to create programs that generate community ownership and sustainability.

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“We have a really strong connection to Native American communities and we’ve made an important contribution.”

- Johnnye Lewis, PhD
Engagement With Zuni Pueblo

Vallabh “Raj” Shah, Regents’ professor emeritus in the UNM School of Medicine, and his team of community health representatives (CHRs) have worked with people at Zuni Pueblo living with diabetes and/or chronic kidney disease for more than two decades.

Zunis face about a 20-fold chance of developing end-stage renal disease. Shah’s Zuni Kidney Project, a joint venture with tribal leadership and the Indian Health Service, started out studying genetics of the Zuni population to understand the high disease prevalence, but now uses disruptive innovation to prevent it.

CHRs visit patients’ homes and provide care using portable medical instruments. The model also makes use of motivated text messaging. These interventions have produced impressive results: 90 percent of participants improve their patient activation scores and see significant declines in body mass index and disease markers.

Shah and Carla Herman, MD, professor in the Division of Geriatrics, found that more than half of Zuni elders reported falls in the previous year. They received a five-year, $2.5 million grant from the National Institutes of Health to study whether CHR-led fall-risk screening and an evidence-based exercise program will show results.

Meanwhile, Shah and neurologist Gary Rosenberg, MD, director of the UNM Center for Memory & Aging, are working with Zuni elders on a first-of-its-kind study conducted by the UNM Alzheimer’s Disease Research Center. By administering cognitive screening and conducting brain scans in a mobile MRI scanner, scientists hope to fill a gap in national Alzheimer’s disease databases relating to American Indians.

“UNM is well positioned to train and mentor Native American minorities.”

- Lisa Cacari Stone, PhD

UNM is well positioned to train and mentor Native American minorities.

- Lisa Cacari Stone, PhD
Native American Environmental Health Equity Research

For more than 20 years Johnnye Lewis, PhD, has collaborated with Native American tribes to study how environmental factors affect the health of people in Indigenous communities.

Lewis, research professor emerita in the College of Pharmacy, co-leads the Center for Native American Environmental Health Equity Research, a partnership that includes Crow, Sioux and Navajo communities that is funded by the National Institute of Environmental Health Sciences. A grant extension through 2025 changes the focus to how solid waste disposal techniques in tribal communities, especially burning plastics, exacerbate metals exposures and increase disease risk.

She is also the principal investigator of the Navajo Birth Cohort Study/Environmental influences on Child Health Outcomes, which studies the effects of metals exposure in parents living near abandoned uranium mining sites on the Navajo reservation and tracking those effects during pregnancy and in the first years of a child’s life.

The study found higher-than-normal metals levels in participants and suggests that being exposed to a combination of metals during pregnancy increased the likelihood of pre-term birth; that some babies are born with high levels of uranium and other metals; and that there is evidence that these exposures in children continue to increase at least through early childhood.

Lewis also co-leads the UNM METALS (Metal Exposure and Toxicity Assessment on Tribal Lands in the Southwest) Superfund Center, focused on integrated health-based and environmental science research within Native American communities. The work has led to the important finding that the material left behind in some mining sites, when exposed to the weather, is reduced to nanoparticles, making them potentially even more dangerous.

“We have a really strong connection to Native American communities and we’ve made an important contribution,” Lewis says. “We’ve shown the value of the approach of moving from the environment to people to the laboratory and back to people.”
Health Sciences Partnerships with Taxpayers and Governmental Entities Support Key Research Priorities

Taxpayer support and strategic partnerships between local, state and federal governments and The University of New Mexico Health Sciences offer vital funding for research and education benefiting all New Mexicans.

Recent and ongoing construction projects on UNM’s North Campus and the Health Sciences Rio Rancho campus provide tangible evidence of this support.

The support also takes the form of targeted Congressional and legislative appropriations that enable key projects to go forward.

Here are some recent highlights:

**Interdisciplinary Substance Use & Brain Injury (ISUBI) Center** – The two-story, 15,700-square-foot new wing on the west side of Domenici Hall on UNM’s North Campus was dedicated on Feb. 16, 2023. It houses basic research facilities to enable state-of-the-art closed-loop recording and stimulation of brain activity in both human and animal subjects and advanced computational resources. It also offers simulated settings to test behavioral interventions.

The project’s $12 million price tag included a five-year, $4 million construction grant from the National Institutes of Health, and $8 million in UNM Health Sciences funding. The facility is expected to play a key role in supporting President Garnett Stokes’s Substance Use Grand Challenge, as well as UNM’s Centers of Biomedical Research Excellence.

ISUBI will also serve as a regional and national hub for clinical trials, and be a resource for colleagues in the Clinical and Translational Research Infrastructure Network and the Mountain West Consortium.

**Nene & Jamie Koch Comprehensive Movement Disorder Center (CMDC)** was dedicated on Nov. 1, 2022.

The CMDC is the state’s first and only comprehensive facility for the care and management of Parkinson’s disease and other movement disorders. It encompasses 16,246 square feet and includes 17 exam rooms, three treatment rooms, two research rooms, speech therapy and a rehabilitation gym with a patient lift track.

The CMDC will host a multidisciplinary team that includes movement disorder clinicians, rehabilitation medicine (including physical therapy, speech therapy
and occupational therapy services), neuropsychology and case management services, said clinic co-director Amanda Deligtisch, MD, associate professor in the Department of Neurology.

“To be able to bring patients in and to have space just to do our clinical trial work is huge,” she said. “If I have a patient who is interested in clinical trials in my office, I can move them over to another room and they can meet with a research coordinator then and there, because my research coordinators are on site.”

The new center was nearly four years in planning. In 2019 the New Mexico Legislature allocated $3.5 million from FY 2020-2023 for the project, matched by $3.5 million in Health Sciences funding.

**College of Nursing and Public Health Excellence Building**

The UNM College of Nursing and the College of Population Health (soon to transition to an accredited School of Public Health), will soon be housed in a new building to the west of the Domenici Center for Health Sciences Education.

The 93,750-square-foot College of Nursing building will support the enrollment of more nursing students while, for the first time, including a research wet lab.

This building was designed to meet LEED Silver v.4 certification and promote “science on display.” It has also been designed to further reduce UNM energy consumption by including energy efficient lighting, equipment and building control systems, insulated and high reflective roofing, use of natural day lighting and low water usage plumbing fixtures.

Project construction is supported by $30 million in proceeds from a voter-approved general obligation bond, $2.5 million in a special appropriation from the New Mexico Legislature and $10.7 million in Health Sciences matching funds.

**UNM Center of Excellence for Orthopaedic Surgery & Rehabilitation**

The University of New Mexico Center of Excellence for Orthopaedic Surgery & Rehabilitation opened its doors Dec. 1, 2021, on the UNM Health Sciences Rio Rancho Campus. The state-of-the-art facility unites clinical, educational and research activities under one roof. The two-story, 50,000-square-foot structure, located adjacent to UNM Sandoval Regional Medical Center in Rio Rancho’s City Center, includes exam rooms for patients to consult with surgeons, an extensive orthopedics research laboratory and a rehabilitation facility.

At the ribbon-cutting, President Stokes described the structure as the “crown jewel” of UNM health facilities. “This kind of efficient innovation is entirely consistent with our role as New Mexico’s only Research-1 university,” she said.

The $21 million project was funded through the City of Rio Rancho’s gross receipts tax revenues, with some of the money coming from cash on hand and $15 million from bonds raised against future tax receipts.

**Congressional Earmarks**

Thanks to support from New Mexico’s Congressional delegation, $3.87 million in specific federal funding was allocated to assorted UNM Health Sciences research projects during FY 2022. These included:

- **Peer Support Model to Address Substance Use Disorders Treatment Engagement in Rural Communities** – Project Lead, Annette Crisanti, PhD (SAMHSA, $1.5 million)
- **HSC Laboratory Facilities Improvements** – Project Lead, Richard S. Larson, MD, PhD (HRSA $1.5 million)
- **Using Experiences with Virtual Home Visiting During COVID to Improve Rural Home Visiting** – Project Lead Rebecca Kilburn, PhD (HRSA, $473,000)
- **Improving Forensic Identification of Unknown American Indian and Hispanic/Latinx American Decedents** – Project Lead Heather Edgar, PhD (NIST $374,000)
DONOR dollars

Yolanda Sanchez, PhD, UNM Cancer Center director and CEO, and Sara Riccirollo, PhD.
The 100 or so scientists at The University of New Mexico Comprehensive Cancer Center are adept at securing grant funding to support their research. But pilot research is required to compile the data needed to submit a successful grant application, with much of it funded through philanthropic donations that flow to the Cancer Center through The University of New Mexico Foundation.

“This research is often so novel that donor support is the only source of funding available to investigate the initial idea,” said Leigh Rowland, senior development director at the Foundation. “If there are results demonstrated through the initial research, the scientists and the Cancer Center can leverage it for sources of funding from the National Cancer Institute, National Institutes of Health or large foundations.”

Donor support plays a key role in sustaining pilot funding, Rowland said.

There were 27 ongoing pilot projects at the Cancer Center in FY 2022. Between 2015 and 2019, $2 million from philanthropic donations were used in combination with developmental funds from the National Cancer Institute to fund 107 pilot grants. This support resulted in 44 publications, eight clinical trials and an additional $26 million in extramural grant funding for cancer research.

Fundraising for the Cancer Center often taps into an individual’s personal experience with cancer, Rowland said.

“The conversation often starts with, ‘I, my spouse or my family member has cancer,’” she said. “No one wants other people to go through what they went through. The only way to make that happen is through research.”

Alan Tomkinson, PhD, professor in the UNM Department of Internal Medicine and the Cancer Center’s associate director for basic research, said the Cancer Center has multiple mechanisms to support pilot studies.

Small grants totaling $10,000 or less may be used to pay the Cancer Center shared resources to generate key preliminary data for grant applications. Additional funding is available to supply matching support for a postdoctoral fellow or graduate student working in a researcher’s laboratory, he said.

Full-on research pilot grants, which can range up to $100,000, serve two purposes, Tomkinson said. One is to help junior faculty members expand their research into new areas.

“We like to use this money to build collaborations,” he said. “One of the things the Cancer Center does is it makes people from different disciplines talk to each other. We want to use that money to support
pilots where there are collaborations between at least two members.”

In addition, larger multi-year grants of up to $200,000 are available to support large programmatic grant applications involving multiple investigators, Tomkinson said.

Meanwhile, the National Cancer Institute P30 grant that supports the Cancer Center includes development funds that can be combined with philanthropic gifts, he said.

The Cancer Center tracks the outcome of funded pilot projects, including any related publications, how many grant applications were submitted and whether any grants were funded. “The last time we did it, the return on investment was about nine-fold,” Tomkinson said.

Donor-supported pilot grant funding fosters collaboration among researchers in the Cancer Center’s three main mission areas: Cancer Control and Population Science, Cellular and Molecular Oncology and Cancer Therapeutics, he said.

“Our success in establishing these interactions, measured by the number of successful extramural grant applications and joint publications by two or more Cancer Center members, is a key metric when we are reviewed by the National Cancer Institute” Tomkinson said.

Some recent pilot projects that were supported by philanthropy include research into the oncolytic treatment of ovarian cancer, led by principal investigator Eric Bartee, PhD, and co-PIs Sarah Adams, MD, and Mara Steinkamp, PhD. Oncolytic therapy entails introducing a virus that the patient’s immune system hasn’t encountered to create an inflammatory response within a cancerous tumor.
“This research is often so novel that donor support is the only source of funding available to investigate the initial idea.” - Leigh Rowland

The UNM researchers found a virus that successfully treats melanoma and also effectively targets ovarian cancer. “My colleagues and I would not have been able to pursue this line of study without pilot funding,” Bartee said. “Simply put: this project would not have happened.”

In another study, a team led by Sara Piccirillo, PhD, and co-PI Seth Newsome, PhD, are focused on brain tumor metabolism to look for weaknesses that could lead to breakthrough therapies.

Cancer incidence disparities in New Mexico are the subject of a third pilot project led by Yan Lin, PhD, with co-PIs Charles Wiggins, PhD, and Li Luo, PhD. The team seeks to understand how social determinants of health relate to the geographic factors that contribute to cancer disparities.

An additional source of philanthropic support is the Lobo Cancer Challenge, the annual bike/run fundraiser sponsored by the Cancer Center, which last year raised $350,000 to support research, Tomkinson said. Participants include patients, family and friends.

“They can specify what type of research they want the money they raise to go to,” he said. “We get to meet people who are interested in supporting research as a way to reduce the burden of cancer. Almost of all of them have had their lives touched by cancer in some way.”

In the end, Tomkinson said, philanthropic support for pilot funding helps sustain cutting-edge biomedical research, opening doors for advances in cancer prevention, diagnosis and treatment.

“The nice thing about the philanthropic funds is you can fund whatever you think is the most interesting and potentially impactful science,” he said. “Having access to those funds that you can invest in these early stages is really critical.”

Leigh Rowland and Alan Tomkinson, PhD
Rosstin Ahmadian, PhD Candidate
Cell Biology & Physiology
F31 Scholar, NHLBI
Signaling mechanisms that regulate CH-dependent pulmonary hypertension
Mentors: Thomas Resta, PhD; Nikki Jernigan, PhD

Amanda Collar, PhD Candidate
Molecular Genetics & Microbiology
F30 Scholar, NIAID
Chlamydia trachomatis adhesion factor epitope-specific antibody responses, functionality, and roles in protection against urogenital infection
Mentor: Kathryn Frietze, PhD

Elizabeth Bailey, PhD
Postdoctoral Fellow, Pathology
ASERT, NIGMS
Antigen valency, spacing and rigidity in aggregated receptors and site-specific phosphorylation events
Mentor: Diane Lidke, PhD

Thomas De Pree, PhD
Postdoctoral Fellow, Pharmaceutical Sciences
ASERT, NIGMS
Using ethnographic principles in community-based participatory research and critical multi-stakeholder analysis of the UNM METALS Superfund Research Center Program
Mentors: Debra MacKenzie, PhD; Johnnye Lewis, PhD

Christian Cabanlong, PhD
Postdoctoral Fellow, Pharmaceutical Sciences
ASERT, NIGMS
Trichloroethylene’s role in the progression of autoimmunity
Mentor: Sarah Blossom, PhD

Alex Francian, PhD
Postdoctoral Fellow, Molecular Genetics & Microbiology
Developing vaccines for malaria and mosquito-borne viruses using virus-like particle vaccine platforms
Mentor: Bryce Chackerian, PhD
Marcus Garcia, PharmD  
Postdoctoral Fellow, Pharmaceutical Sciences  
ASERT, NIGMS  
Assessing the value of longitudinal laboratory data for early identification of allograft dysfunction in renal transplant  
Mentors: Matthew Campen, PhD; Eliseo Castillo, PhD

Andzoa Jamus, PhD Candidate  
Molecular Genetics & Microbiology  
T32, NIAID  
Investigating Chlamydia trachomatis vaccine candidate using a bacteriophage virus-like particle platform  
Mentor: Kathryn Frietze, PhD

Samuel Goodfellow, PhD Candidate  
Internal Medicine  
T32 Scholar, NIAID  
Studying the geographical distribution and genetics of orthohantaviruses in New Mexico host reservoirs and clinical samples  
Mentor: Steven Bradfute, PhD

Stefan Klimaj, PhD Candidate  
Molecular Genetics & Microbiology  
T32, NIAID  
Studying Seoul virus and interferon signaling and defining the role of innate immune signaling in endothelial activation  
Mentors: Alison Kell, PhD; Michelle Ozbun, PhD

Russell Hunter, PhD Candidate  
Pharmaceutical Sciences  
F31, NICHD  
Air pollution and reproductive toxicology  
Mentor: Matthew Campen, PhD

Autumn LaPointe, PhD  
Postdoctoral Fellow, Molecular Genetics & Microbiology  
T32 NIAID  
Interferon activation and interferon-mediated restriction during hantavirus infection  
Mentor: Alison Kell, PhD
Nicole Maphis, PhD  
Postdoctoral Fellow, Neurosciences  
ASERT, NIGMS  
Studying the molecular underpinnings and neural circuitry underlying alcohol use, alcohol-seeking behavior and complex cognitive tasks  
Mentor: David Linsenbardt, PhD

Valerie Morley, PhD  
Postdoctoral Fellow, Internal Medicine  
T32, NIAID  
Using genomic data to understand the transmission and evolutionary dynamics of antibiotic resistance in Enterobacteriaceae in a hospital setting  
Mentor: Daryl Domman, PhD

Cait McPherson, PhD  
Postdoctoral Fellow, Anthropology  
ASERT, NIGMS  
Understanding how extragenetic inheritance shapes phenotypic variation and contributes to evolutionary processes  
Mentors: Heather Edgar, PhD; Lexi O’Donnell, PhD

Bianca Myers, PhD Candidate  
Neurosciences  
T32, NIAAA  
Studying the effect of alcohol exposure on glioblastoma progression  
Mentor: Tou Yia Vue, PhD

Emily Morin, PhD  
Postdoctoral Fellow, Cell Biology & Physiology  
ASERT, NIGMS  
Examining the role of endothelial cell membrane cholesterol in regulating vascular ion channel function, with a focus on TRPV4 regulation  
Mentor: Jay Naik, PhD

Abbey Myrick, PhD Candidate  
Neurosciences  
T32, NIAAA  
How fetal alcohol spectrum disorder affects learning and memory; determining whether pattern of alcohol consumption during gestation affects the fetal mouse brain  
Mentors: C. Fernando Valenzuela, MD, PhD; Julia Stephen; Samuel McKenzie, PhD
Seeun Oh, PhD
Postdoctoral Fellow, Molecular Genetics & Microbiology
T32, NIAID
*Elucidating the mechanisms of Tripartite motif-containing proteins that govern autophagy maturation*
Mentor: Michael Mandell, PhD

Emmanuel Rosas, PhD
Postdoctoral Fellow, Internal Medicine
ASERT, NIGMS
*Studying G-protein coupled estrogen receptor (GPER) in the development of anti-hormone resistance and whether approaches that prevent cross-activation of GPER reduce anti-hormone resistance in ERα-positive breast cancers*
Mentor: Eric Prossnitz, PhD

Julianne Peabody, PhD Candidate
Molecular Genetics & Microbiology
T32, NIAID
*Immunology and infectious disease*
Mentors: Bryce Chackerian, PhD; Steven Bradfute, PhD

Andrew Skidmore, PhD
Postdoctoral Fellow, Internal Medicine
ASERT, NIGMS
*Studying whether the deer mouse microbiome could influence the transmission of Sin Nombre hantavirus to humans*
Mentor: Steven Bradfute, PhD

Arasely Rodriguez, PhD Candidate
Neurosciences
T32, NIAAA
*Effects of prenatal alcohol exposure on enriched environment-mediated hippocampal neurogenesis and potential therapeutic intervention*
Mentor: Lee Anna Cunningham, PhD

Justine Zimmerly, PhD Candidate
Neurosciences
T32, NIAAA
*Prenatal alcohol exposure and the neuroinflammatory and stress response to an acute stressor in adulthood*
Mentor: Erin Milligan, PhD
The University of New Mexico Health Sciences Center’s 14th Annual Research Day Awards Ceremony was held (via Zoom webinar) on June 6, 2023. The event, hosted by Hengameh Raissy, PharmD, Interim Vice President for Research, recognized six scientists who were nominated by their peers and selected for recognition by a faculty committee on the basis of their outstanding research contributions.

**Douglas (D.J.) Perkins, PhD**  
Internal Medicine, Basic Science  

D.J. Perkins conducts research in both the U.S. and Kenya, focusing on the human host-immune response to parasites and viruses, as well as host-parasite interactions. A primary goal is to understand how genes and gene pathways influence susceptibility to *Plasmodium falciparum*-induced severe malarial anemia in African children. He is also investigating the molecular basis of enhanced immune dysfunction in individuals co-infected with HIV, tuberculosis and malaria. Additional research activities include drug discovery for malaria, COVID-19 and mathematical modeling of infectious disease dynamics. His team also works to define the role of SARS-CoV-2 viral load dynamics on COVID-19 pathogenesis in disproportionately affected populations.

**Davin Quinn, MD**  
Psychiatry & Behavioral Sciences, Clinical Science  

Davin Quinn uses cutting-edge approaches to personalize and optimize psychiatric neuromodulation, including transcranial direct current stimulation to treat prolonged post-concussive symptoms (PPCS) after mild traumatic brain injury. His work supports a novel theory of PPCS as a state of hyperconnectivity between nodes of the salience network responsible for internal sensations and the central executive network responsible for nonverbal executive functions. He has also expanded the local use of repetitive transcranial magnetic stimulation (rTMS) to treat major depression; and he has been principal investigator or collaborator for seven clinical trials using rTMS to modulate brain activity and treat symptoms of late-life depression, traumatic brain injury, alcohol use disorder and methamphetamine use disorder.

**Larissa Myaskovsky, PhD**  
Internal Medicine, Population Science  

Larissa Myaskovsky brings social and behavioral science to bear on health services research with a focus on the social determinants of health. She uses a multi-method and multi-disciplinary approach to identify disparities in health care processes and outcomes and to develop interventions to reduce health disparities in people with kidney disease and other chronic conditions. She has studied disparities in kidney transplantation and conducted health services and health care equity research in other vulnerable populations. She leads a pragmatic comparative effectiveness trial assessing whether streamlined clinic-scheduled kidney transplant evaluations, or peer navigators trained in motivational interviewing, may help Latinx and Native American patients with kidney failure overcome barriers to transplant listing.
Eliseo Castillo, PhD
Molecular Genetics & Microbiology, Junior Faculty
Eliseo Castillo’s research focuses on defining the harmful effects of microplastics on gastrointestinal health. He has been actively recruited to give talks on the effects of microplastics on GI health, and his published work on microplastics garnered the attention of the Geological Society of America. He was invited to give a talk at the annual Geological Society of America Connects 2021 meeting. He is the lead principal investigator for a National Institutes of Health subaward titled, “Mechanisms of Modulation of Gut Immunity by Ingested Uranium and Mixed Metal Exposures,” which runs through June 2027. During his time as a KL2 scholar at the Clinical & Translational Science Center, he acquired multiple NIH and internal awards to support his research activities.

Yiliang Zhu, PhD
Internal Medicine, Team Science
Yiliang Zhu has served as director of the UNM Clinical & Translational Science Center Biostatistics, Epidemiology & Research Design Core, as well as for the Clinical & Translational Research Infrastructure Network, a consortium of 11 universities in seven Mountain West states. He currently directs the biostatistics core for three UNM Health Sciences Centers of Biomedical Research Excellence. He has supported key UNM research initiatives with a diverse group of investigators and helped nurture a team science environment by providing research mentorship to new and mid-career investigators. He co-led a U.S. State Department-funded program to train village doctors in northwestern China with faculty from three UNM departments and faculty members and graduate students from two Chinese universities and a Chinese NGO specializing in rural development.

Patrick Rendón, MD
Internal Medicine, Scholarship of Teaching and Learning
Patrick Rendón has provided outstanding leadership, innovation and dedication to education at The University of New Mexico School of Medicine involving the development of curricula, direct education and training of undergraduate students, medical students, resident physicians, fellows and faculty. He has created new curricula for a range of learners, and in his role as associate program director, he co-created the Internal Medicine Board Preparation Curriculum, which has added an additional 20 sessions of board preparation material to the curriculum and created a rotating two-year curriculum based on the blueprint for the American Board of Internal Medicine. The board preparation sessions teach evidence-based methods of learning and test-taking to resident physicians. The curriculum turned the curve in the medicine board pass rate from 75% to the current rate of 95%.
University of New Mexico Health Sciences research centers and institutes play a prominent role in many critical national networks. We thank the directors, faculty, staff and students who enrich the work of these groups. These entities include a range of research cores and shared facilities. Here’s an overview:

Extramurally Funded Centers & Institutes
- UNM Clinical & Translational Science Center (UL TR001449, Pandhi/Campen)
- UNM Comprehensive Cancer Center (P30CA118100, Sanchez)
- The New Mexico Integrative Science Program Incorporating Research in Environmental Sciences Center (P30ES032755, Blossom)
- Autophagy, Inflammation & Metabolism Center (NIH/COBRE) (P20GM121176, Deretic)
- Center for Brain Recovery & Repair (NIH/COBRE) (P20GM109089, Shuttleworth)
- New Mexico Alcohol Research Center (P50 AA022534, Savage)
- Transdisciplinary Research, Engagement & Equity Center for Advancing Behavioral Health (U54MD004811, Cacari Stone).
- Center for Metals in Biology & Medicine (NIH/COBRE) (P20GM120422, Campen)
- Center for Native American Environmental Health Equity Research (P50MD015706, Lewis/MacKenzie).
- Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest Superfund Research Center (P42 ES025589, Lewis)
- New Mexico Exploratory Alzheimer’s Disease Research Center (P20 AG068077, Rosenberg)
- Center for Development & Disability (Administration on Intellectual and Developmental Disabilities, Moriarta)
- Navajo Birth Cohort Study/Environmental Influences on Child Health Outcomes (UH3 OD023344, MacKenzie)
- 18/24 Healthy Brain and Child Development National Consortium (U01 DA055359P, Bakhireva/Leeman)
- Surveillance Epidemiology & End Results Program (HHSN26120180014I, Wiggins)
- Prevention Research Center (U48DP006379, Davis)
- IDeA State Pediatric Clinical Trial Network (2UG1OD024947-03, Raissy/Kong)
- Project ECHO (5 U10HA33225-04-00, Arora)

Other Centers, Institutes & Networks
- Center for Infectious Disease & Immunity (Byrd)
- Center for Disaster Medicine (Banks)
- Institute for Ethics (Bolton)
- Center for Forensic Imaging (Adolphi)
- Center for Global Health (Perkins)
- Center for HPV Prevention (Wheeler)
- Memory & Aging Center (Rosenberg)
- Center for Molecular Discovery (Buranda)
- Center for Native American Health (Parker)
- Institute for Resilience, Health & Justice (Girardet)
- Center for Health Equity & Preparedness (Couig)
- Center for Healthcare Equity in Kidney Disease (Myaskovsky)
- Center for Participatory Research (Wallerstein)
- Center of Excellence for Orthopedic Surgery & Rehabilitation (Schenck)
- Substance Use Research & Education Center (Bakhireva)
- Diabetes Prevention & Outcomes Center (Schade)
- Epidemiology & Prevention Interdisciplinary Center for Sexually Transmitted Infections (Wheeler)
- Center for Innovation in Health & Education (Frank)
- Kidney Institute of New Mexico (Wagner)

Signature Research Programs
- Brain & Behavioral Health Institute (Bakhireva & Bhaskar)
- Cardiovascular & Metabolic Disease (Liu)
- Infectious Disease & Immunity (Cannon)
- Child Health Research (Girardet)
- Environmental Health Sciences (Campen)
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<td>Melissa Martinez</td>
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<td>Locum Tenens Program DOH Physician, PA and NP Services - Continuation</td>
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<td>A. Robb McLean</td>
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<td>Locum Tenens Services - Continuation</td>
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<td>Center for Infectious Diseases &amp; Immunity</td>
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<td>Terry Wu</td>
<td>Advanced Technology International</td>
<td>Mod 5 - Nanolipoprotein Particle-Based Subunit Vaccine Against Pneumonic Tularemia - Non-Specific Supplement</td>
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<td>Lawrence Livermore National Laboratory</td>
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<td>Michelle Ozbun</td>
<td>National Institute of Allergy and Infectious Diseases</td>
<td>Biology of Infectious Disease and Inflammation - Continuation</td>
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<td>Health Sciences Library &amp; Informatics Center</td>
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<td>Jonathan Eldredge</td>
<td>Medical Library Association</td>
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<td>Oak Ridge Institute for Science and Education</td>
<td>NLM Second Year Associate Fellowship Program</td>
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<td>University of Utah</td>
<td>Southwest Community Engagement Ambassador Project</td>
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<td>Gary Rosenberg</td>
<td>National Institute on Aging</td>
<td>N.M. Alzheimer’s Disease Research Center - Continuation</td>
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National Institute of Neurological Disorders and Stroke  
Validation of Biomarkers of Small Vessel Injury in VCID  
University of California, Davis  
Diverse VCID

**OFFICE OF RESEARCH**

**Richard Larson**  
New Mexico VA Health Care System  
Veterinary Services for the N.M. Veterans Affairs Health Care System - Continuation  
$32,962

**Larissa Myaskovsky**  
Dialysis Clinic, Inc.  
Comparing Kidney Transplantation Outcomes in Undocumented Immigrants and U.S. Citizens  
$78,656

**Christopher Abbott**  
Johns Hopkins University  
Escitalopram for Agitation in Alzheimer Disease  
$16,809

**Justin Baca**  
Abbott Point of Care, Inc.  
Abbott - CS-2020-0008 Clinical Evaluation of the Glucose Test in Venous and Arterial Blood  
$113,588

**Chloe Stoffel**  
New Mexico Behavioral Health Collaborative  
ADOBE HSD  
$622,961

**CLINICAL & TRANSLATIONAL SCIENCE CENTER**

**Lisa Cacari-Stone**  
Westat  
N.M. Weave 2022-2023  
$1,400,000

**Matthew Campen**  
National Center for Advancing Translational Sciences  
HSC Clinical & Translational Science Center KL2 2020-2025 - Continuation  
$394,876

**Andrew Carlson**  
Johns Hopkins University  
BEACH  
$47,320

**Walter Dehority**  
University of Arkansas  
Improving COVID-19 Vaccine ISPCTN  
$7,975

**Michelle Harkins**  
Vanderbilt University Medical Center  
PEER (ACTIV 4d RAAS)  
$51,933
Shuguang Leng
University of Nevada, Las Vegas
(Round 9 - MSPP) Novel Methods of Assessing Household Wood Smoke Exposure $50,944

Jessie Maxwell
University of Arkansas
DCOC Leadership Committee - Maxwell $43,556

University of Arkansas
Junior Pilot Studies - ISPCTN $43,911

Hengameh Raissy
Eunice Kennedy Shriver National Institute of Child Health and Human Development ISPCTN - UNM Pediatric Clinical Trials Center in iDEA States Pediatric Clinical Trials - Continuation $416,580

University of Arkansas
ECHO PASC ISPCTN $1,535,091

University of Arkansas
VDORA - Continuation $15,150

University of Utah
PASC OTA COVID $3,942,971

**COLLEGE OF NURSING**

Mary Couig
U.S. Department of Veterans Affairs
Nurses on the Frontline Caring for Patients With COVID-19: Lived Experiences (Couig-IPA) $17,704

U.S. Department of Veterans Affairs
Nurses on the Frontline Caring for Patients With COVID-19: Lived Experiences (Lavin-IPA) $21,628

U.S. Department of Veterans Affairs
VA Office of Nursing Services IPA - Continuation $39,059

Judy Liesveld
Bureau of Health Professions
NSL - Baccalaureate Nursing $200,516

Janice Martin
City of Albuquerque
Caregiver Training Program $120,000

City of Albuquerque
Geriatric Education and Health Maintenance & HUD Expansion $120,000

El Pueblo Health Service
El Pueblo Health Service $87,777

Carolyn Montoya
Bureau of Health Workforce
Advanced Nursing Education Workforce Program - Continuation $648,783

Bureau of Health Workforce
Advanced Nursing Education Workforce Program - Continuation $641,513

California State University
California State University ANEW $10,000

Presbyterian Healthcare Services
ANE-NPR Program - Continuation $30,784

Katherine Zychowski Bufford
National Institute of Environmental Health Sciences
Neurovascular Consequences of Inhaled Uranium Mine-Site Dust Exposure - Continuation $246,224

National Institute of Environmental Health Sciences
Particulate Matter-Induced Pulmonary Eosinophils and the Lung-Brain Axis $227,250

New Mexico Technical Institution
Integration of RCMD and RCS Physicochemistry and Toxicity Outcomes $110,013

**COLLEGE OF PHARMACY**

Ludmila Bakhireva
FYR Diagnostics, LLC
PCR-based miRNA Assessment of Neonatal Opioid Withdrawal Syndrome Severity $642,446

National Institute on Alcohol Abuse & Alcoholism
ENRICH-2: Stress-Reactivity and Self-Regulation in Infants With Prenatal Alcohol Exposure - Continuation $657,852

National Institute on Alcohol Abuse & Alcoholism
Supplement to ENRICH-2: Stress-Reactivity and Self-Regulation in Infants With Prenatal Alcohol Exposure - Specific Supplement $69,751

National Institutes of Health
18/24 the Healthy Brain and Child Development National Consortium $1,011,257

University of California, San Diego
HBCD Peer Navigator $86,200

Sarah Blossom
Arkansas Children’s Research Institute
COBRE Junior Investigator Mentor - Continuation $13,390

National Institutes of Health
Epigenetic Modulation of CD4 + T Cell Differentiation and Autoimmunity by Trichloroethylene - Non-Specific Supplement $141,935

Matthew Campen
American Foundation for Pharmaceutical Education
AFPE Gateway Fellowship 2021-22 $5,000
National Institutes of Health
Mutational Signatures of a Combined Environmental Exposure: Arsenic and Ultraviolet Radiation - Continuation $508,478

University of Louisville
Chromosome Instability Drives Metal-Induced Lung Cancer $35,952

Johnnye Lewis
Center for Applied Environmental Law and Policy
Power Plant Regulation Work $20,000

National Institute of Environmental Health Sciences
UNM Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest Superfund Research Program - Admin Diversity Supplement $50,000

Debra MacKenzie
National Institute on Minority Health and Health Disparities
Center for Native American Environmental Health Equity Research - Renewal - Continuation $1,222,878

National Institutes of Health
Center for Native American Environmental Health Equity Research - Renewal - Non-Specific Supplement $135,880

Pavan Muttill
American Foundation for Pharmaceutical Education
AFPE Gateway Fellowship 2021-22 $5,000

Susan Smolinske
American Association of Poison Control Centers
CDC WASH Project $20,000

Denver Health and Hospital Authority
Researched Abuse, Diversion and Addiction-related Surveillance System Work Order #17 $12,500

Health Resources and Services Administration
Poison Center Stabilization and Enhancement Program - Continuation $137,560

New Mexico Department of Health
COVID-19 Coronavirus All Hazards Line - Specific Supplement $517,786

COLLEGE OF POPULATION HEALTH

Lisa Cacari-Stone
National Institute on Minority Health and Health Disparities
TREE Center - Diversity Supplement to Promote Diversity in Health-Related Research - Continuation $72,620
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<td>Tracie Collins</td>
<td>New Mexico Department of Health N.M. DOH - Academic Health Department</td>
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<td>Rebecca Rae</td>
<td>W.K. Kellogg Foundation Tribal Data Champions Fellowship</td>
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<td>Pamela Sedillo</td>
<td>Association for Prevention Teaching and Research Advancing Anti-Racism in a Maternal Child Health Curriculum</td>
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<td>Francisco Soto Mas</td>
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<td>Health, Safety and Psychosocial Organic Farming Survey - Continuation</td>
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**SCHOOL OF MEDICINE**

### Anesthesiology & Critical Care Medicine

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<td>Kristine Tollestrup</td>
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<td>Tulane University ACA- Public Health Training Centers - Continuation Yr4</td>
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<td>Nina Wallerstein</td>
<td>National Institute on Aging Neighborhoods, Sexual Orientation, Race/Ethnicity &amp; Smoking Across the Adult Lifespan: a Multilevel Intersectional Assessment - Continuation</td>
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<td>New Mexico Department of Health N.M. DOH AHD - CBPR Training Contract</td>
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<td>John Rask</td>
<td>Vanderbilt University Medical Center Simulation Multicenter Project - Continuation</td>
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<td>Karin Westlund-High</td>
<td>Bessor Pharmaceuticals Renalase Reduction of High Fat Pancreatitis Pain - Continuation</td>
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<td>National Institute of Neurological Disorders and Stroke CCKBR-Targeting Scfv As Chronic Pain Therapy</td>
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<td>UNM Rainforest Innovations HiPSC-Based High-Throughput Screening of Novel CCKBR ScFV for Treating Acute and Chronic Pain in Female Patients</td>
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### Biochemistry & Molecular Biology

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<td>Natalie Adolphi</td>
<td>ABQMR ABQMR Research Contract</td>
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<td>Melian Liu</td>
<td>American Heart Association Transcriptional Regulation of Thermogenic Program - Continuation</td>
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<td>National Institute of Diabetes and Digestive and Kidney Diseases Brown Fat Cellular Heterogeneity</td>
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<td>National Institute of Diabetes and Digestive and Kidney Diseases The Role of Adiponectin in Regulating Type 2 Innate Lymphoid Cells and Browning of Fat - Continuation</td>
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**Mark McCormick**

American Federation for Aging Research

TRNA Synthetase AFAR Reboot $20,000

Norn Group

TRNA Synthetases Impetus $378,396

**Vallabh Shah**

American Indian Chronic Renal Insufficiency Cohort Study - Continuation $670,586

**Nancy Kanagy**

National Institute of General Medical Sciences IMSD @ UNM HSC 2021 $225,834

National Institute of General Medical Sciences IMSD @ UNM HSC 2022 - Non-Specific Supplement $2,580

**Cell Biology & Physiology**

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<td>American Association for Cancer Research The Impact of Tumor-Treating Fields on Residual Disease in Glioblastoma</td>
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<td>Vallabh Shah</td>
<td>National Institute of Diabetes and Digestive and Kidney Diseases American Indian Chronic Renal Insufficiency Cohort Study - Continuation</td>
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**Niki Jernigan**

National Heart, Lung, and Blood Institute Vascular Smooth Muscle Function in Pulmonary Hypertension - Non-Specific Supplement $37,875

National Institutes of Health Vascular Smooth Muscle Function in Pulmonary Hypertension - Continuation Yr 4 $340,875
Thomas Resta  
National Heart, Lung, and Blood Institute  
Cholesterol Regulation of EGFR-Dependent Vasoconstriction in Chronic Hypoxia-Induced Pulmonary Hypertension  
$37,427

National Institutes of Health  
Minority Institutional Research Training Program (T32) - Continuation  
$372,395

National Heart, Lung, and Blood Institute  
Cholesterol Regulation of EGFR-Dependent Vasoconstriction in Chronic Hypoxia-Induced Pulmonary Hypertension - Non-Specific Supplement  
$716

**Comprehensive Cancer Center**

Sarah Adams  
National Cancer Institute  
Mechanisms of Selective Therapeutic Synergy of PARP-Inhibition and CTLA4 Blockade Engaged by Interferon-gamma in the Ovarian Tumor Microenvironment  
$314,982

National Cancer Institute  
Mechanisms of Selective Therapeutic Synergy of PARP-Inhibition and CTLA4 Blockade Engaged by Interferon-gamma in the Ovarian Tumor Microenvironment - Non-Specific Supplement  
$34,999

Prajakta Adsul  
NRG Oncology  
Exploring the Implementation Context of Community Oncology Practices for Lifestyle Interventions - Continuation  
$15,379

Leslie Andritsos  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 1b/3  
$115,560

New Mexico Cancer Care Alliance  
Clinical Trial Phase 3  
$702,835

Eric Bartee  
National Cancer Institute  
Impact of Extracellular Potassium on Oncolytic Therapy  
$177,066

Marianne Berwick  
National Cancer Institute  
Integration of Clinical and Molecular Biomarkers for Melanoma Survival  
$1,987,168

National Cancer Institute  
Integration of Clinical and Molecular Biomarkers for Melanoma Survival  
$81,000

University of North Carolina  
Identification of Lethal Melanomas at the Time of Diagnosis (Resub)  
$63,288

Cynthia Blair  
National Cancer Institute  
Improving Physical Functioning in Older Cancer Survivors Through Light-Intensity Physical Activity - Continuation  
$154,279

Urs Brown-Glaberman  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 1b/2  
$120,040

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2  
$181,855

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2/3  
$187,935

New Mexico Cancer Care Alliance  
Clinical Trial Phase 3  
$116,840

Zoneddy Dayao  
Alliance NCTN Foundation  
Alliance NCTN Foundation Federal Funds  
$127,770

Alliance NCTN Foundation  
Alliance NCTN Foundation Non-federal Funds  
$127,770

American Cancer Society  
Lodging Plan for UNM Comprehensive Cancer Center-2022/2023  
$25,000

American Cancer Society  
Transportation Plan for UNM Comprehensive Cancer Center-2022/2023  
$10,000

New Mexico Department of Health  
Development and Delivery of Cancer Survivorship Cancer Plans  
$34,422

New Mexico Department of Health  
Development and Delivery of Cancer Survivorship Cancer Plans  
$10,000

Ala Ebaid  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 1/2  
$187,615

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2  
$190,815

Dolores Guest  
Consulate of Mexico in Albuquerque Ventanilla De Salud 2021  
$36,939

Yan Guo  
Indiana University  
The Role of LMO2 in the Pathogenesis of T-Cell Leukemia  
$10,049

Richard Harvey  
Public Health Institute  
Phase 3 Randomized Trial of Inotuzumab Ozogamicin for Newly Diagnosed High-Risk B-ALL; Risk-Adapted Post-Induction Therapy for High-Risk B-ALL, Mixed Phenotype Acute Leukemia and Disseminated B-LLy (1732 Study)  
$239,993

Neda Hashemi  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 3  
$181,535

Kimberly Leslie  
Defense Health Program  
Converting Mutant P53 Into an Actionable Target for the Treatment of Ovarian Cancer  
$444,473

National Cancer Institute  
Targeted Therapy for Endometrial Cancer  
$115,525

National Cancer Institute  
Targeted Therapy for Endometrial Cancer  
$279,805

Li Luo  
Colorado School of Public Health  
A Population-Based Study of Ketorolac and Ovarian Cancer Survival  
$71,967

Dario Marchetti  
National Cancer Institute  
Functional Characterization of Brain-Colonizing Breast Cancer CTC Subsets  
$326,787

National Cancer Institute  
Mechanisms of Melanoma Brain Metastasis by CTCs Isolated From Patients’ Blood  
$329,725

National Cancer Institute  
Mechanisms of Melanoma Brain Metastasis by CTCs Isolated From Patients’ Blood - Non-Specific Supplement  
$29,310

Oxnard Foundation  
Mechanisms of CTC Plasticity in Melanoma Brain Metastasis  
$59,664

Colleen McCormick  
New Mexico Cancer Care Alliance  
Clinical Trial Phase n/a  
$181,215

Jean McDougall  
Wake Forest University  
Food Insecurity in Oncology (FIOnc)  
$26,540

Shiraz Mishra  
National Cancer Institute  
Cancer Research – Scholarship and Training Experiences in Population Sciences  
$146,654

National Institutes of Health  
Enhancing Prevention Pathways Towards Tribal Colorectal Health  
$197,118

Carolyn Muller  
National Cancer Institute  
NCORP - Continuation  
$1,651,700

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2  
$116,840
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<td>Jacklyn Nemunaitis</td>
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<td>Scott Ness</td>
<td>National Institutes of Health</td>
<td>Mutations and Target Genes in Adenoid Cystic Carcinoma</td>
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<td>Michelle Ozbun</td>
<td>American Cancer Society</td>
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<td>Sarah Popek</td>
<td>University Of Pennsylvania</td>
<td>Supportive Clinical Trial</td>
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<td>Eric Prossnitz</td>
<td>National Cancer Institute</td>
<td>G Protein-Coupled Estrogen Receptor and Breast Carcinogenesis</td>
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<td>Rita Serda</td>
<td>Oxnard Foundation</td>
<td>Biominalized Zombie Cancer Cells for Immunotherapy</td>
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<td>Mara Steinkamp</td>
<td>Leidos, Inc</td>
<td>BASE Project/MGMT: NCI Experimental Therapeutics (NExT) Chemical Biology Consortium (CBC) - Continuation</td>
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<td>Andrew Sussman</td>
<td>University of Arizona</td>
<td>Ethnicity and Lung Cancer Survival: a Test of the Hispanic Sociocultural Hypothesis</td>
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<td>Alan Tomkinson</td>
<td>Lawrence Berkeley National Laboratory</td>
<td>Structural Cell Biology &amp; Physiology of DNA Repair Machines Project</td>
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<td>DNA Repair Capacity Assays for Lung Disease Risk Assessment</td>
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<td>CCSG: Administrative Supplement to Strengthen NCI-Supported Community Outreach Capacity Through Community Health Educators of the National Outreach Network</td>
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<td>Dissemination of a Colorectal Cancer Screening Program Across American Indian Communities in the Southern Plains and Southwest United States</td>
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<td>Research Partnership to Address Social Needs in Cancer Care</td>
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<td>Surveillance Epidemiology and End Results Program - Continuation</td>
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<td>Gary Cuttrell</td>
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<td>Enhancing Community-level Rapid Response to Pain and Opioid Emergencies</td>
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<td>Creating Cultures of Resiliency for Behavioral Health Providers Through Project ECHO</td>
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CDC Foundation
COVID-19: Advanced HIV Disease in the Context of COVID-19 Virtual Training Series - Continuation $10,000

Clinton Health Access Initiative
ECHO Support for Global Webinars to Improve HIV Care in the COVID-19 Era - Continuation (AHD-3) $23,000

Clinton Health Access Initiative
Enhancing Access to COVID-19 Care in Latin America and the Caribbean Using Project ECHO $600,000

ECMC Foundation
College and Career Counseling ECHO Program $250,000

Elizabeth Glaser Pediatric AIDS Foundation
EGPAF Infection Prevention Control (TO4) - Specific Supplement $22,375

Elizabeth Glaser Pediatric AIDS Foundation
EGPAF TOS 5 Cholera Sessions $29,126

Elizabeth Glaser Pediatric AIDS Foundation
EGPAF TOS 5 Cholera Sessions - Continuation $5,825

Family Health Centers of San Diego
FHCSD Partnership w/ ECHO to Improve Clinical and Public Health Outcomes $1,200,000

FHI 360
Technical Assistance to the Provincial Health Offices in Zambia to Support Optimized HIV Case Finding, Treatment, and HIV Epidemic Control Under the President's Emergency Plan for AIDS Relief $37,500

Foundation for Opioid Response Efforts
Training School- and Community-Based Providers to Prevent and Manage Pain, Trauma and Opioid Abuse for New Mexico's Youth $1,500,000

Health Resources and Services Administration
SC AETC - End HIV Epidemic Specific Supplement Year 3 $98,765

Health Resources and Services Administration
South Central AIDS Education and Training Center Program - Continuation Yr. 4 $3,833,717

Jhpiego Corporation
ECHO Support for Building Health Worker Capacity Through the Urban Health Initiative Program in Afghanistan - Continuation $23,936

Jhpiego Corporation
Jhpiego Guatemala Health and Nutrition - Year 1 $25,000

Jhpiego Corporation
Jhpiego Guatemala Health and Nutrition - Yr 2 $250,000

Jhpiego Corporation
Jhpiego Healthcare Workforce - Continuation Y5 $45,000

Johnson & Johnson
Improving Perinatal Health in Rural and Underserved Communities Throughout New Mexico, Arizona and Texas $500,000

Los Alamos National Laboratory Foundation
ECHO for Social Emotional Learning $40,000

Medscape
Medscape Vaccine Initiative $22,500

Medscape
Medscape Vaccine Initiative - Non-Specific Supplement $5,000

N.M. Early Childhood Education and Care Department
COVID-19 ECHO Collaboration on Early Childhood $2,000,000

Navajo Area Indian Health Service
Epidemiology ECHO Program for Navajo Area IHS $45,000

New Mexico Corrections Department
N.M. Department of Corrections Hepatitis C - Continuation $690,644

New Mexico Corrections Department
Re-Entry ECHO Program: Supporting PEP Graduates As Peer Support Workers $365,000

New Mexico Department of Health
Climate Change and Human Health $100,000

New Mexico Department of Health
COVID-19 N.M. Peer Education Project $498,488

New Mexico Public Education Department
Project ECHO - N.M. PED Social Emotional Learning 2022 $75,000

New Venture Fund
Co-impact Organizational Strengthening Grant for India, Africa, and U.S. $3,000,000

New Venture Fund
ECHO/Co-Impact Partnership for Achieving Global Scale - Continuation $1,968,495

Northwest Portland Area Indian Health Board
Indian Health Services TeleECHO Clinic Support - Continuation $200,000

Office of Rural Health Policy
Expanding Access to Care for Long-Haul COVID Patients in Rural New Mexico $475,000

Pfizer, Inc.
Leveraging Project ECHO Partnerships for Access to Hematology Oncology Best Practices in Rural and Underserved Areas $900,000

Pfizer, Inc.
Project ECHO-Pfizer Planning Partnership for Global Health Equity $584,500

Southcentral Foundation
ECHO Support for Native American Rural Emergency Medical Program $45,000

Stanford University
Stanford University T1d Support and Education in the U.S. $42,901

U.S. Air Force in Europe - Air Forces Africa
ECHO APORA 2021 Conference Support $17,402

UBS Optimus Foundation
Empowering Sub-Saharan Africa to Improve Vaccine Confidence Using Project ECHO $355,095

University of California, Davis
ECHO Support for Multinational Health Education Networks in Africa and Southeast Asia - Continuation Y3 $85,599

University of California, Davis
ECHO Support for Multinational Health Education Networks in Africa and Southeast Asia - Non-Specific Supplement $41,627
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<tr>
<th>Project Description</th>
<th>Applicant(s)</th>
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<td><strong>Emergency Medicine</strong></td>
<td>Laura Banks</td>
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<td><strong>Whitney Barrett</strong></td>
<td>Valencia Regional Emergency Communication Center Professional Services -</td>
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<td><strong>Darren Braude</strong></td>
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<td><strong>Cameron Crandall</strong></td>
<td>Yale University CTN-0099: Emergency Department -</td>
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<td>Initiated BupreNorphine VALidaTION Network Trial - Non-Specific Supplement</td>
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<td><strong>Joy Crook</strong></td>
<td>New Mexico Department of Health FY 22 N.M. DOH Statewide EMS -</td>
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<td><strong>Christian Garcia</strong></td>
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<td><strong>Jon Kenneth Femling</strong></td>
<td>Olive View Medical Center-UCLA IDnet Synovial Fluid Study</td>
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<td><strong>Michael Lauria</strong></td>
<td>Stryker/NAEMSP NAEMSP®-Stryker EMS Medicine Fellowship</td>
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<td><strong>Steven McLaughlin</strong></td>
<td>Live Nation Worldwide, Inc. Paramedics/EMT Services -</td>
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<td><strong>Aaron Reilly</strong></td>
<td>High Altitude Athletics Club Medical Director Services -</td>
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<td>Maternal and Child Health Bureau N.M. EMS for Children Program -</td>
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<td><strong>Philip Seidenberg</strong></td>
<td>Abbott Laboratories Inc. Abbott LANER-HF BNP Study</td>
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<td>National Board of Medical Examiners National Board of Medical Examiners OSC Exam Agreement</td>
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<td><strong>Chelsea White</strong></td>
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<td><strong>Venice Ceballos</strong></td>
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<td>City of Albuquerque, Emergency Rental Assistance Program</td>
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<td><strong>Arthur Kaufman</strong></td>
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<td>Bernalillo County, Tiny Home Village Community Support Services - Continuation</td>
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<td>City of Albuquerque, Emergency Rental Assistance Program - Specific Supplement</td>
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<td><strong>Lawrence Leeman</strong></td>
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<td>Eunice Kennedy Shriver National Institute of Child Health and Human Development, HEAL Initiative: UNM HSC Clinical Center</td>
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<td><strong>Janet Page-Reeves</strong></td>
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<td>City of Albuquerque, Health Literacy - COVID-19</td>
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<td><strong>Nancy Pandhi</strong></td>
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<td>U.S. Department of Veterans Affairs, Gulf War Code Book, Module Development, Recruitment - Continuation</td>
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<td><strong>Tassy Parker</strong></td>
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<td>International Association for Indigenous Aging, Collaborative Hubs to Reduce the Burden of Suicide Among AI &amp; AN Youth - Continuation Year 5</td>
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<td>University of Colorado Denver, Center for American Indian and Alaska Native Diabetes Translation Research</td>
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<td><strong>University of Colorado Health Sciences Center</strong></td>
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<td>Center for American Indian and Alaska Native Health Disparities - FY22</td>
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<td>Washington State University, Community Organizations for Natives: COVID-19 Epidemiology, Research, Testing, and Services - Specific Supplement</td>
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<td><strong>Washington State University</strong></td>
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<td><strong>Katharine Rebolledo</strong></td>
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<td><strong>Valerie Romero-Leggott</strong></td>
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<td>Bureau of Health Workforce, National HCOP Academies - Continuation</td>
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<td><strong>Pilar Sanjuan</strong></td>
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<td>National Institute of Mental Health, Examining the Interplay Between Resting Oscillations, Novelty Processing and Attention in PTSD</td>
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National Institute on Alcohol Abuse & Alcoholism
Neural Underpinnings of Emotion Regulation and Drinking to Cope Among Problem Alcohol Drinkers $149,029

National Institute on Alcohol Abuse & Alcoholism
Neural Underpinnings of Emotion Regulation and Drinking to Cope Among Problem Alcohol Drinkers - Non-Specific Supplement $170,248

National Institute on Alcohol Abuse & Alcoholism
Neural Underpinnings of Emotion Regulation and Drinking to Cope Among Problem Alcohol Drinkers - Specific Supplement $107,245

The Task Force for Global Health
MAT-LINK Surveillance Project $348,000

Robert Sapien
Guadalupe County Hospital
Child Ready $25,000

Lovelace Regional Hospital - Roswell
Child Ready Services $25,000

Helene Silverblatt
Bureau of Health Workforce
Area Health Education Centers Program - Continuation $444,000

Center for Health Innovation
CHI Contract for Services FY22 $5,000

Daniel Waldman
First Choice Community Healthcare Consulting Services $48,620

Daniel Williams
University of Mississippi Medical Center
Promoting Resilience and Mental Health Among Health Professional Workforce $106,676

Laura Wylie
Bureau of Health Workforce
Physician Assistant Training in Primary Care - Continuation $300,000

Internal Medicine

Christos Argyropoulos
Anonymous Non-Profit Foundation
Medical Directorship - Evergreen FY22 $1,249,620

Dialysis Clinic, Inc.
Kidney: To Take or Not to Take? FY22 $209,980

Novo Nordisk, Inc.
Clinical Trial Phase 3: EX6018-4758 Zeus $172,854

Soraya Arzhan
Dialysis Clinic, Inc.
Implications of Hypernatremia in Hospitalized Patients Without and With Chronic Kidney Disease - Y3 $329,456

Nour Ass’ad
United Therapeutics Corporation
Phase 3 Study of the Efficacy and Safety of Inhaled Treprostinil in Subjects With Idiopathic Pulmonary Fibrosis” $27,168

Sara Assaf
Duke University
Facilitators and Barriers for COVID-19 Testing Uptake and Its Impact on Vaccine Uptake $302,991

GlaxoSmithKline
Clinical Trial - Phase 3 GSK3511294 $236,568

Aleksandr Birg
Loveland Biomedical & Environmental Research Institute
Cognitive Sequelae of Cerebrovascular and Gut Dysfunction Following COVID-19 $7,808

James Blankenship
Zoll TherOx
AMHOTT III Study $102,434

Cristian Bologa
Givaudan Flavors Corporation
Givaudan Research Agreement - Y13 $205,000

Steven Bradfute
Albert Einstein College of Medicine
Prometheus: A Platform for Rapid Development of Immunotherapeutics and Immunoprophylactics Against Emerging Viral Threats - Y4 $310,000

Steven Bradfute
Defense Threat Reduction Agency
Long Non-Coding RNAs in Venezuelan Equine Encephalitis Virus Infection - Y2 $335,749

Mesa Photonics, LLC
Novel Approaches for Detection of and Protection From Emerging Viral Pandemics $9,682

Marcos Burgos
New Mexico Department of Health
Tuberculosis Medical Care, Consultation and Education Services - FY22 $130,367

Osman Dokmecli
AbbVie
M18-6891a Phase 3 Randomized, Placebo-Controlled, Double-Blind Study to Evaluate Upadacitinib in Adolescent and Adult Subjects With Moderate to Severe Atopic Dermatitis - Supplement 3 $161,093

Jeremy Edwards
National Institutes of Health
Knowledge Management Center for Illuminating the Druggable Genome - Y5 $1,000,000

Deirdre Hill
National Cancer Institute
Chronic Kidney Disease Development in Cancer Treatment and Survival $389,545

Ivy Hurwitz
UNM Rainforest Innovations
Spray Drying of Essential Oil-Based Larvicides $25,000

Michelle Iandiorio
Bureau of Health Workforce
Community-based Workforce to Increase COVID-19 Vaccine Access for Vulnerable Populations in New Mexico $942,470

Health Resources and Services Administration
Ryan White Part C EIS $181,263

Health Resources and Services Administration
Ryan White Part C EIS - Non-Specific Supplement $537,927

HIV-AIDS Bureau
Ryan White HIV/AIDS Program Part D Coordinated HIV Services and Access to Research for Women, Infants, Children, and Youth - FY22 $492,914
Merck, Sharp & Dohme, Inc.
Clinical Trial Phase 2a: MK-8591
$1,510,115

New Mexico Department of Health
DOH HIV Provider Agreement
$1,260,000

**Ashish Kataria**
Plexis Inc.
Validating Cell-Based Assays for ABMR After Renal Transplantation
$22,500

**Denece Kesler**
Bureau of Health Workforce Preventive Medicine Residency Program
Johns Hopkins University
Development of a Medical Screening Program for Former LANL & Sandia Workers - Y2
Office of Rural Health Policy
Radiation Exposure Screening and Education Program - Y2
$223,956

**Olga Kovbasnjuk**
Baylor College of Medicine
Intestinal Niche in Homeostasis and Epithelial Regeneration - Y3
$45,450

**Mark Lacy**
IDSA Foundation
Infectious Diseases Student Interest Groups Program
$500

**Christophe Lambert**
National Institutes of Health
iDG Data Coordinating Center - Engagement Plan With the CFDE
$745,261

**Lana Melendres-Groves**
Acceleron Pharma Inc.
Clinical Trial Phase 3: A011-14 (ZENITH)
$227,647

Acceleron Pharma Inc.
Clinical Trial Phase 3: Protocol A011-12 (SOTERIA)
$307,787

Acceleron Pharma Inc.
Clinical Trial Phase 3: STELLAR (A011-II)
$255,360

Actelion Clinical Research, Inc.
Protocol AC-065A402: Upravi (Selivaptag): The Users Drug Registry - Non-Specific Supplement
$33,780

Actelion Pharmaceuticals Ltd.
CARE PAH
$129,935

Actelion Pharmaceuticals Ltd.
Clinical Trial Phase 3: 67896062CTP3001 - macitethr
$224,217

Aerovate Therapeutics, Inc
Clinical Trial Phase 2b/3: (IMPAHCT)
$284,771

Bayer HealthCare Pharmaceuticals Inc.
$128,975

InsMed Incorporated
Clinical Trial Phase 2b - INS1009-202
$140,335

Labcorp Drug Development, Inc
Clinical Trial Phase 2:
GB002-2102
$163,840

PPD Investigator Services
Clinical Trial Phase 3: PBI L00Gp3
$111,000

Respira Therapeutics, Inc
Clinical Trial Phase 2: RT234-PAH-CL202 (Respira)
$155,855

United Therapeutics Corporation
Clinical Trial Phase 3: ADVANCE Capacity (ROR-PH-302)
$108,800

University Of Pennsylvania
Case-Control Study of Methamphetamine in Pulmonary Arterial Hypertension
$19,644

**Nestor Mercado**
Phillips Image Guide Therapy Corporation
Clinical Trial: DEFINE GPS
$225,820

**Gregory Mertz**
Fred Hutchinson Cancer Research Center
Clinical Trial Phase 3: CoVPN 3006- COVID- Protocol Reimbursement
$814,070

Fred Hutchinson Cancer Research Center
Clinical Trial Phase 3: CoVPN 3006- COVID- Protocol Reimbursement - Non-Specific Supplement
$246,869

Fred Hutchinson Cancer Research Center
Clinical Trial Phase 3: CoVPN 3006- COVID- Startup/ Site Prep
$90,900

**Tudor Oprea**
The Jackson Laboratory
Illuminating the Druggable Genome by Knowledge Graphs
$118,605

**Kimberly Page**
Cedars-Sinai Medical Center
Collaborative Care Teams for Hospitalized Patients With Opioid Use Disorders: Translating Evidence into Practice - FY22
$330,584

Loyola University Chicago
Computational Modeling for HCV Vaccine Trial Design and Optimal Vaccine-based Combination Intervention
$54,813

National Institute on Drug Abuse
EXPLORE CTN-0133 - Supplement 2
$206,608

National Institute on Drug Abuse
Exploring Health Beliefs for Community Engagement and Diversity in Clinical Trials - Supplement
$220,751

National Institute on Drug Abuse
New Mexico Clinical Trials Node: Clinical Research and Practice to Address Substance Use in Diverse, Rural and Underserved Populations - Supplement
$1,936,681

National Institute on Drug Abuse
Truman Health Services CTN-0116 - Y22-23 - Supplement #1
$358,473

New York University Grossman School of Medicine
CTN-0100: Optimizing Retention, Duration and Discontinuation Strategies for Opioid Use Disorder Pharmacotherapy
$452,846

The RAND Corporation
Improving Access and Treatment for Co-Occurring Opioid Use Disorders and Mental Illness Disorders - Y5
$688,939

University of Nevada at Reno
A Multi-Site Mixed Methods Study of Methamphetamine Use in the Mountain West
$178,741

**Swathi Paleti**
Takeda Pharmaceutical Company Ltd.
Clinical Trial Phase 4
COMPASS-CD
$834,200

Gulshan Parasher
DURECT Corporation
Clinical Trial Phase 2-b:
Durect C928-011
$112,175

**Douglas Perkins**
Harvard School of Public Health
Fogarty Global Health Training Fellowship Program - FY22
$14,283

John E. Fogarty International Center for Advanced Study in the Health Sciences
Training and Research on Severe Malarial Anemia - Renewal 23
$282,334

National Institute of Allergy and Infectious Diseases
COVID: Temporal Transcriptomics in Hospitalized COVID-19 Patients From Disparately Impacted Ancestral Groups for Therapeutic Discovery
$791,987

National Institute of Allergy and Infectious Diseases
Defining the Inflammation and Immunity Transcriptome in Severe Malarial Anemia for Immunotherapeutic Discovery - Y5
$703,880

**Natalie Salas**
New Mexico Department of Health
Provide Expert STD Clinical Services, Consultation, Provider Training and Program Planning.
$68,946
David Schade  
Case Western Reserve University  
Epidemiology of Diabetes Intervention and Complications - FY22  
$124,018

Case Western Reserve University  
Epidemiology of Diabetes Intervention and Complications - FY22 - A1  
$25,811

Case Western Reserve University  
UrEDIC Bladder: Bladder Dysfunction in Type 1 Diabetes  
$7,685

George Washington University  
Glycemia Reduction Approaches in Diabetes: a Comparative Effectiveness Study - Year 10  
$26,596

Darren Schmidt  
Bayer HealthCare Pharmaceuticals Inc.  
Clinical Trial Phase 3: Efficacy and Safety of BAY 94-8862 / Finerenone  
$537,536

Namita Singh  
Alexion Pharmaceuticals, Inc.  
Clinical Trial Phase 2: ALXN2050–NEPH-201  
$154,137

Novartis Pharmaceuticals Corporation  
CLINICAL TRIAL PHASE 3: LNP023F12301  
$131,804

Manoocher Soleimani  
DCI Donor Services  
The Role of Extracellular Vesicles in Kidney Cystogenesis in Tuberous Sclerosis Complex  
$309,211

Harvard Medical School  
Wood Smoke and Chronic Mucous Secretion - FY22  
$45,450

U.S. Department of Veterans Affairs  
IPA - Barone - Y3  
$47,596

U.S. Department of Veterans Affairs  
IPA - Zahedi - Y3  
$52,500

Veteran Affairs Medical Center  
IPA - Brooks - Y2  
$7,118

Akshay Sood  
Miners Colfax Medical Center  
A Novel Comprehensive Medical Outreach Program for Rural Miners in Mountain West United States  
$147,831

Miners Colfax Medical Center  
Medical Consultation and Care - FY22  
$1,057,733

National Institute of General Medical Sciences  
COVID: Keeping Rural Minority “Essential” Workplaces Open Safely During the COVID-19 Pandemic: the Role of Frequent Point-of-Care Molecular Workplace Surveillance for Miners FY22  
$701,030

National Institutes of Health  
Point-of-Care Molecular Workplace Surveillance for Miners FY22  
$726,154

Joao Teixeira  
Astitue Medical Inc.  
AST-134: Urine Sample Processing Study: Analysis of Fresh Versus Frozen Urine Samples From ICU Subjects  
$56,468

Jason Timm  
Givaudan Flavors Corporation  
Givaudan Research Agreement - Y14  
$205,000

Mark Unruh  
Boston University Medical Center  
Improving Medical Decision Making for Older Patients With End Stage Renal Disease - FY22  
$116,603

George Washington University  
Implementing Advance Care Planning for Dialysis Patients  
$107,022

Hennepin Healthcare Research Institute  
HOPE CATI  
$167,582

Honeywell Corporation  
Occupational Medical Services  
$25,000

Lovelace Respiratory Research Institute  
Lovelace Respiratory Research Institute - Occupational Medicine Services - Continuation  
$25,000

Lovelace Respiratory Research Institute  
Lovelace Respiratory Research Institute - Occupational Medicine Consulting Services - Lovelace Respiratory Research Institute - Continuation  
$25,000

University Of Pennsylvania  
Computer Assisted Telephone Interview - Supplement  
$45,450

University of Pittsburgh  
Technology Assisted Stepped Collaborative Care Intervention to Improve Patient-Centered Outcomes in Hemodialysis Patients - Y5  
$40,240

University of Washington  
Randomized ESRD Trial Comparing CBT Alone VERSus With Buprenorphine - FY 22  
$99,491

University of Washington  
Treatment Options for Insomnia for ESRD - Y4  
$62,208

Zenith Administrators  
Occupational & Environmental Health Services  
$25,000

Bharah Yarlagadda  
Duke Clinical Research Institute  
ICE-PAD  
$107,420

Molecular Genetics & Microbiology  
Kiran Bhaskar  
Rainwater Charitable Foundation  
Rainwater 30th Anniversary Tau Leadership Fellows  
$10,000

Bryce Chackerian  
Henry M. Jackson Foundation  
Epitope-Based Vaccines for Neisseria Gonorrhoeae - Amendment 4  
$21,798

Henry M. Jackson Foundation  
Epitope-Based Vaccines for Neisseria Gonorrhoeae - Year 4  
$195,279

Massachusetts General Hospital  
Innate-Like BCR Activity as a Template for Universal Vaccination Against Influenza Virus - Year 5  
$70,949

National Institute on Drug Abuse  
Bacteriophage Virus-Like Particle-Based Vaccines Targeting Opioids  
$1,572,708

Vojo Deretic  
National Institute of Allergy and Infectious Diseases  
Autophagy Against Tuberculosis and HIV  
$736,954

National Institute of Allergy and Infectious Diseases  
Pattern Recognition Receptors and Autophagy in MtB Control in AIDS - Year 25  
$479,513

National Institute of General Medical Sciences  
Autophagy, Inflammation and Metabolism in Disease Center - Year 5  
$2,180,372

Kathryn Frietze  
National Institute of Allergy and Infectious Diseases  
Defining Chlamydia Trachomatis Adhesion Factor Epitope-Specific Antibody Responses, Functionality, and Roles in Protection Against Urogenital Infection - Non-Specific Supplement  
$716

National Institute of Allergy and Infectious Diseases  
Defining Chlamydia Trachomatis Adhesion Factor Epitope-Specific Antibody Responses, Functionality, and Roles in Protection Against Urogenital Infection - Year 2  
$42,826
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<th>Name</th>
<th>Institution/Company</th>
<th>Project Title</th>
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<td>Cellular Responses to Retroviral Capsid Recognition</td>
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<td>Cellular Responses to Retroviral Capsid Recognition - Year 2</td>
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<td>Causal Investigation of the Functional Interactions of Theta and Alpha Neural Oscillations in Output-gating</td>
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<td>Rawan Tarawneh - Ohio State University</td>
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<td>Alzheimer's Disease Biomarker for Diagnosis and Prognosis</td>
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<td>Michel Torbey - Covenant Hospital Hobbs</td>
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<td>Nora Perrone-Bizzozero - Arizona State University</td>
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<td>Prenatal Alcohol Exposure Generates Vulnerability to the Proinflammatory Effects of Morphine and Adverse Neuroimmune Consequences</td>
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<td>Destabilization of Axonal MRNAs by KHSRP Controls Axon Regeneration</td>
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<td>Daniel Savage</td>
<td>National Institute on Alcohol Abuse &amp; Alcoholism</td>
<td>Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Intervention Competing Renewal - Continuation</td>
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<td>Alcohol Research Training in Neurosciences - Continuation</td>
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<td>Molecular Mechanisms of Excitatory Postsynaptic Diversity - Non-Specific Supplement</td>
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<td>Tou Yia Vue</td>
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<td>Transcriptional Control of OPC Fate Specification and Homing to Gray Matter and White Matter in the CNS</td>
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<td>Andrew Carlson</td>
<td>Los Alamos National Laboratory - LANL Collaboration - Continuation</td>
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<td>Heather Spader</td>
<td>The American Society of Pediatric Neurosurgeons</td>
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<td>Eve Espey</td>
<td>Albuquerque Area Indian Health Service - OBGYN IHS Specialty Services - Continuation</td>
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<td>Yuko Komesu</td>
<td>Eunice Kennedy Shriver National Institute of Child Health and Human Development</td>
<td>Innovations in Treatments for Pelvic Floor Disorders: a Southwestern PFDN Site - Specific Supplement</td>
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<td>Lauren Decker</td>
<td>New York University Grossman School of Medicine</td>
<td>The SARS-CoV-2 Autopsy Cohort Post-Acute Sequelae of COVID Study - Phase 2</td>
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Clarissa Krinsky  
New Mexico Department of Health  
FY 22 N.M. VDRS  
$5,275

Sarah Lathrop  
New Mexico Department of Health  
FY20 Opioid Mortality Surveillance - Continuation  
$227,526

U.S. Consumer Product Safety Commission  
MECAP Reports - Continuation  
$756

Lori Proe  
National Center for Chronic Disease Prevention and Health Promotion  
OMI UNMH SUID SDY 09/30/2021 - 09/29/2022  
$66,361

New Mexico Crime Victims Reparation Commission  
FY 22 Grief Services  
$104,643

Ophthalmology & Visual Sciences

Robert Avery  
Eye Associates of New Mexico  
Neuro-Ophthalmology Services - Continuation  
$196,903

Elizabeth Cretara  
American Glaucoma Society  
Ocular Blood Flow in Patients With Migraine  
$10,000

Arup Das  
National Eye Institute  
Novel Biomarkers & Genetics of Diabetic Retinopathy - Continuation  
$610,716

New Mexico Commission for the Blind  
Emergency Eye Care Program Continuation  
$125,000

New Mexico Commission for the Blind  
Emergency Eye Care Program Continuation - Non-Specific Supplement  
$25,000

U.S. Department of Veterans Affairs  
NM. VAHCS RNA Sequencing and Analysis - Service Contract  
$34,864

Veterans Health Administration  
IPA With VA: Finny Swamidoss  
$43,750

Alexander Davis  
Southwest Eyecare Specialists, PC  
Clinical Services - Continuation  
$26,875

Dusanka Deretic  
National Eye Institute  
Rhodopsin Trafficking & Photoreceptor Membrane Renewal - Continuation  
$367,387

Orthopaedics & Rehabilitation

Eric Benson  
Balanced Physical Therapy and Wellness LLC  
Physical Therapists Evaluate and Treat Patients  
$25,000

Deana Mercer  
Skeletal Dynamics  
Grant for Research Assistant  
$80,961

Beth Moody Jones  
Langford Consulting, Inc.  
Professional Services Agreement - Continuation  
$35,044

Dustin Richter  
Arthroscopy Association of North America  
AANA Orthopaedic Sports Fellowship 2021-2022  
$5,968

Christina Salas  
Sandia National Laboratories  
3DBP for Bone Formation  
$49,754

Robert Schenck  
Lawson Health Research Institute  
STABILITY Study II  
$82,435

University of Pittsburgh  
Surgical Timing and Rehabilitation for Multiple Ligament Knee Injuries: A Multicenter Integrated Clinical Trial - Continuation  
$3,272

University of Pittsburgh  
Surgical Timing and Rehabilitation for Multiple Ligament Knee Injuries: A Multicenter Integrated Clinical Trial - Specific Supplement  
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University of Pittsburgh  
Surgical Timing and Rehabilitation for Multiple Ligament Knee Injuries: A Multicenter Integrated Clinical Trial - Continuation  
$3,485

University of Pittsburgh  
Surgical Timing and Rehabilitation for Multiple Ligament Knee Injuries: A Multicenter Integrated Clinical Trial - Specific Supplement  
$3,810

Selina Silva  
Ann & Robert H. Lurie Children's Hospital of Chicago  
Infrastructure for Musculoskeletal Pediatric Acute Care CT  
$4,726

Pathology

Nadia Falk  
TriCore Reference Laboratories  
TO # 28 Hologic Digital Scanning Study 2  
$12,985

Jennifer Gillette  
National Heart, Lung, and Blood Institute  
Functional Role of Tetraspanin CD82 in Hematopoietic Stem Cell Interactions  
$376,242

Nancy Joste  
TriCore Reference Laboratories  
Medical Director and Professional Services - Continuation  
$2,211,496

TriCore Reference Laboratories  
TO # 27 Hologic Digital Scanning Study 2  
$12,985

Tae-Hyung Kim  
META Vivor  
Harnessing Cell Mechanotype to Regulate the Immune Evasion of Highly Metastatic Breast Cancer Cells  
$100,000

Diane Lidke  
Genmab  
Dissecting the Mechanisms of Action for Hexabody-Driven DR5-induced Cell Death - Continuation  
$184,645

Los Alamos National Laboratory  
System Dynamics of PD-1 Signaling in T Cells  
$208,309

National Institute of General Medical Sciences  
Imaging the Early Events in Membrane Receptor Signaling - Continuation  
$420,193

David Martin  
TriCore Reference Laboratories  
TO# 31 Leica Discovery Study  
$11,295

Dennis McCance  
University of Virginia  
Biospecimen Procurement and Tissue Microarray Manufacture for the CHTN - Continuation  
$128,337

Aaron Neumann  
University of Colorado  
Acoustofluidic Pipette for Rapid Serodiagnosis of Candida Infection - Continuation  
$22,725

Kurt Nolte  
Astho  
Project ECHO Pilot - Drug Overdose Training for Medical Examiners and Coroners  
$40,000

Jay Raval  
CTI Clinical Trial Services Inc.  
Effects of Plasma Exchange - Non-Specific Supplement  
$100,000

Rutgers, The State University of New Jersey  
Myocardial Ischemia and Transfusion - CCC - Continuation  
$42,000
Bleeding Disorders - Continuation

**Samuel Reynolds**

*TriCore Reference Laboratories*

TO #26 PBL Chromogenic Factor IX Study

$3,250

**Marian Rollins-Raval**

*TriCore Reference Laboratories*

TO #21 PBL Chromogenic Factor IX Study

$3,250

**Angela Wandinger-Ness**

East Carolina University

Brody School of Medicine

Ligand Specificity in Human Glucose Transporters GLUT1-5 and GLUT9

$40,853

**Qian-Yun Zhang**

*TriCore Reference Laboratories*

TO #22 Siemens COVID Study

$688

**Pediatrics**

Dawn (Walstrom) Novak

Early Childhood Education and Care Department

Developmental Care Continuity Program - Continuation

$179,400

**Shirley Abraham**

American Thrombosis and Hemostasis Network

American Thrombosis and Hemostasis Network Round 13

$10,000

**Hyundai Motor America (Hope on Wheels)**

2021 Hyundai Hope on Wheels Impact Grant

$100,000

**Oregon Health & Science University**

ATHN_CDC_Public Health Surveillance for the Prevention of Complications of Bleeding Disorders - Continuation

$28,194

**Presbyterian Healthcare Services**

Pediatric Nephrology Services - Continuation

$25,000

**The University of Texas Health Science Center at Houston**

UT Houston - Dr. Girardet Salary Agreement

$31,030

**Theresa Cruz**

New Mexico Coalition of Sexual Assault Programs, Inc.

CAC Data and Communications

$37,000

**New Mexico Department of Health**

Core SIPP

$120,000

**New Mexico Department of Health**

Hospital-Based Infant Safe Sleep Project

$31,650

**National Institute of General Medical Sciences**

FAIR Data Competency and Machine Learning Readiness for Biomedical Scientists

$85,600

**Tanya Baker-McCue**

New Mexico Developmental Disabilities Planning Council

DDPC Health Access

$10,000

**Sanjiv Amin**

National Institutes of Health

Improving Brain Myelination With Iron Supplementation in Term Infants - Continuation

$630,493

**Suzanne Burns**

University of Wisconsin

Home Evaluation App for Community Independence: HESTIA-NextGen

$45,206

**Anthony Cahill**

American Association on Health & Disability

Project Accessibility USA: Health Promotion for Women With Disabilities - Specific Supplement

$2,500

**Glenda Canaca**

New Mexico Human Services Department

Social Marketing

$517,559

**Loretta Cordova de Ortega**

Comagine Health

In-Home Assessments for Medically Fragile Waiver w/BAA - Continuation

$102,125

**Comagine Health**

In-Home Assessments for Medically Fragile Waiver w/BAA - Continuation

$102,125

**Presbyterian Healthcare Services**

Pediatric Cardiac Anesthesia Services

$25,000

**Presbyterian Healthcare Services**

Pediatric Nephrology Medical Director Services - Continuation

$3,952

**TriCore Reference Laboratories**

TO#33 Virus Genome Sequencing for TriCore

$276,600
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<td>Bureau of Health Professions HRSA Scholarship for Disadvantaged Students - Continuation</td>
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<td>Society to Improve Diagnosis in Medicine DxQI</td>
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<td>Inspirations Early Intervention CP Early Detection</td>
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<td>University of California, San Francisco HEAL Continuation - Year 5</td>
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<td>Institute for Advanced Clinical Trials for Children Advancing Standards and Methodologies to Generate Real-World Evidence From Real-World Data Through a Neonatal Pilot Project</td>
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<td>Martha Muller</td>
<td>Cystic Fibrosis Foundation Cystic Fibrosis Center of New Mexico - CF Registry</td>
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<td>Julia Oppenheimer</td>
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<td>Feasibility and Acceptability of the Making It Work Program for Systemic Sclerosis</td>
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<td>Hengameh Raissy</td>
<td>AstraZeneca Pharmaceuticals, LP AZ KALOS</td>
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<td>Amy Staples</td>
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<td>Leslie Strickler</td>
<td>New Mexico Crime Victim Reparations Commission</td>
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<td>Monique Vallabhan</td>
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<td>Advancing Hepatitis C Detection and Treatment in Sandoval County Children</td>
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<td>Eunice Kennedy</td>
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<td>Elizabeth Yakes Jimenez</td>
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<td>Telehealth and Instructional Design Support for the New Training Modules for the Comprehensive Addiction Recovery Act Work Group</td>
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<td>Nan Zeng</td>
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Psychiatry & Behavioral Sciences

Christopher Abbott
Georgia State University
Data-Driven Approaches to Identify Biomarkers From Multimodal Imaging Big Data - Continuation (YEAR 3) $21,807

National Institute of Mental Health Electroconvulsive Therapy Amplitude Titration for Improved Clinical Outcomes in Late-Life Depression- Year 2 $618,892

Deborah Altschul
Falling Colors Corporation
COVID-19 Emergency Response Supplement to Mental and Substance Use Disorders During COVID-19 $196,500

Falling Colors Corporation
FEMA Crisis Counseling Program Regular Services Program - FY22 $10,954

Falling Colors Corporation
FEMA Crisis Counseling Program Regular Services Program - Continuation $67,808

Falling Colors Corporation
Multi-Systemic Therapy Data Reporting Initiative (MST Data) - FY22 $31,400

Taos Pueblo Division of Health and Community Services
Taos Pueblo Tiwa Babies Program - FY22 $40,000

Taos Pueblo Division of Health and Community Services
Taos Pueblo Tiwa Babies Program - FY23 $50,000

David Arciniegas
Colorado State University
New Approach to Studying White Matter Aging $3,577

University of Colorado
University of Colorado MIBH Consulting for Research - Arciniegas - (Continuation) $120,337

Caroline Bonham
Falling Colors Corporation
Centers for Medicare & Medicaid Services Mobile Crisis Intervention Services Planning $97,500

Falling Colors Corporation
Centers for Medicare and Medicaid New Mexico Substance Use Disorder Prevention that Promotes Opioid Recovery and Treatment for Patients and Communities Amendment 1 - Analysis of the Intersection Between Criminal Justice and Medicaid and Waiver Evaluation & Comprehensive Community Support Services $137,937

Falling Colors Corporation
National Suicide Prevention Lifeline 988 Implementation (Lifeline 988 Implementation) $135,000

Falling Colors Corporation
National Suicide Prevention Lifeline 988 Planning Initiative (Lifeline 988 Planning) $43,392

Indian Health Service
IHS Tele-Behavioral Health, Training & Consultation - Continuation $306,790

Indian Health Service
IHS Tele-Behavioral Health, Training & Consultation - Non-Specific Supplement $500,000

New Mexico Indian Affairs Department
Suicide Prevention Support for the Indian Affairs Department of the State of New Mexico (FY22) $125,000

Juan Bustillo
The Mind Research Network COBRE III - Continuation 05/01/2022-04/30/2023 $185,247

The Mind Research Network
COBRE III - Multimodal Imaging of Neuropsychiatric Disorder (Continuation YR4) $112,180

Jennifer Crawford
Center for Substance Abuse Treatment
New Mexico FOCUS Medication-Assisted Treatment - Prescription Drug and Opioid Addiction Expansion $525,000

Falling Colors Corporation
Adolescent Substance Use Reduction Effort - Treatment Implementation - Continuation $40,000

Falling Colors Corporation
Adolescent Substance Use Reduction Effort - Treatment Implementation Evaluation $67,000

Annette Crisanti
Albuquerque Police Department City of Albuquerque Police Department Crisis Intervention Team ECHO Coordination $99,999

Falling Colors Corporation
Comprehensive Opioid, Stimulants, Substance Abuse Site-Based Program Law Enforcement Assisted Diversion - Continuation $111,000

Falling Colors Corporation
Crisis Triage Centers Learning Collaborative Transformation Transfer Initiative - Continuation $21,483

Falling Colors Corporation
Opening Doors Through Services and Supports for Homeless Individuals with Serious Mental Illness or Co-Occurring Disorder - Continuation $23,999

Falling Colors Corporation
Opening Doors Through Services and Supports for Homeless Individuals with Serious Mental Illness or Co-Occurring Disorder (Opening Doors) - Continuation $94,720

Martha Faulkner
Falling Colors Corporation
Bridges to Wellness Evaluation, Promoting Integration of Physical and Behavioral Health Care - FY23 $184,220

Falling Colors Corporation
Bridges to Wellness Evaluation, Promoting Integration of Physical and Behavioral Health Care - SFY22 Continuation $184,220

New Mexico State University
NMSU Ethics Training Project $35,000

Brian Isakson
Center for Health Innovation
RCORP Center for Health Innovation Curriculum Development $25,000

Center for Substance Abuse Treatment
Increasing Behavioral Health Access Post-COVID Pandemic - Community Mental Health Centers - IBHA $5,000,000

New Mexico Children, Youth & Families Department
SOC III - System of Care Expansion and Sustainability III - Specific Supplement $165,000

David Lardier
Montclair State University
Paterson Coalition Against Substance Abuse $10,000

Montclair State University
Strategic Prevention Framework - Partnerships for Success $21,000
Montclair State University  
*The Paterson, N.J. / Montclair State University Substance Misuse, HIV and Viral Hepatitis Prevention Navigator Initiative for Racial/Ethnic Minorities Ages 13-24 (Prevention Navigator)*  
$25,000

New Mexico Public Education Department  
*New Mexico Project AWARE (Advancing Wellness and Resiliency in Education)*  
State Education Agency  
$765,000

Christopher Morris  
Falling Colors Corporation  
*Systems of Care III - CYFD - UNMMG - Continuation Year 3*  
$500,000

Julie Salvador  
Agency for Healthcare Research and Quality  
*ECHO-F Model to Expand Medication Assisted Treatment in Rural Primary Care - Yr 5*  
$378,866

Falling Colors Corporation  
*N.M. State Opioid Response-2020 (N.M.SOR-2020) - Year 2*  
$1,155,252

Mauricio Tohen  
Arca Foundation  
*Medical Director Services - Continuation*  
$12,000

Bernalillo Academy  
*Chart Reviews*  
$75,000

Bernalillo County  
*Psychiatric Services - Continuation*  
$100,375

County of Bernalillo  
*Psychiatric Services - Non-Compete Continuation*  
$100,375

Pueblo of San Felipe  
*Addiction Prescriber and Child Psychiatry Services*  
$25,000

Universidad Central del Caribe  
*School of Medicine First Episode Psychosis in Hispanic and Latino Populations - Specific Supplement*  
$1,000

Ann Waldorf  
Substance Abuse and Mental Health Services Administration  
*UNM-Provider’s Clinical Support System Nurse Practitioner & Expansion Project (UNM-PCSS NP/E)*  
$150,000

Daniel Williams  
Falling Colors Corporation  
*Assertive Community Treatment - Continuation*  
$136,459

Maria Yellow Horse Brave Heart  
*Center for Substance Abuse Treatment Trauma Informed to Build Resilient, Indigenous, Balanced Communities Enhanced with Strength*  
$1,800,000

Radiology  
Jacqueline Castro  
*Four Corners ASC Qualified Medical Physicists Services*  
$25,000

Gary Mlady  
New Mexico Department of Health  
*DOH BCC Early Detection Program*  
$126,941

New Mexico Department of Health  
*DOH BCC Early Detection Program - Non-Specific Supplement*  
$84,400

Santo Domingo Health Center  
*Physicist Services - Non-Compete continuation*  
$25,000

U.S. Department of Veterans Affairs  
*Provide Radiological and Nuclear Medicine Diagnostics and Therapy Services for N.M. VAHSC FY20 - Continuation*  
$3,641,085

U.S. Department of Veterans Affairs  
*Provide Radiological and Nuclear Medicine Diagnostics and Therapy Services for N.M. VAHSC FY20 - Non-Specific Supplement*  
$35,773

U.S. Department of Veterans Affairs  
*Provide Radiological and Nuclear Medicine Diagnostics and Therapy Services for N.M. VAHSC FY20 - Non-Specific Supplement*  
$750,378

X-Ray Associates of New Mexico  
*Physicist Services*  
$25,000

Sheila Hickey  
Health Resources and Services Administration  
*School of Medicine MD Scholarship for Disadvantaged Students - Continuation*  
$629,941

Surgery  
Ross Clark  
Exhalix, LLC  
*HEALS/Wound Healing Project*  
$98,754

John Marek  
Presbyterian Medical Services  
*On-Call Surgical Services - Continuation*  
$25,000

W.L. Gore & Associates  
*Vascular Surgery Support Program*  
$4,000

UNM HOSPITAL  
Rodney McNeese  
County of Bernalillo  
*Behavioral Health Services - Continuation*  
$1,868,934

County of Bernalillo  
*Supportive Housing Services*  
$748,726

Robert Perry  
Classic Air Medical  
*Helipad Usage*  
$25,000

New Mexico Department of Health  
*Medical Reserve Corps Volunteer Summit and Transportation to the 2022 Bataan Memorial Death March.*  
$65,320

A. Robb McLean  
City of Albuquerque  
*Early Intervention for Children Services - Continuation*  
$215,632

UNM MEDICAL GROUP, INC.  
A. Robb McLean  
Albuquerque Healthcare for the Homeless Inc  
*Locum Tenens Services*  
$25,000

Presbyterian Medical Services  
*Locum Tenens Services - Continuation*  
$25,000

Pueblo of Isleta  
*Locum Tenens Services*  
$25,000
At The University of New Mexico, research is the heartbeat of progress, driving innovation, transforming education and shaping the future.

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RESEARCH ANNUAL REPORT 2022

DISCOVERY

TURNING RESEARCH INTO CURES