Discovery
Research Annual Report 2020

Pandemic Partnerships
Teaming Up to Tame the Coronavirus

TURNING RESEARCH INTO CURES
UNM Health Sciences Center
Research Annual Report 2020

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UNM HEALTH SCIENCES CENTER

VISION
The University of New Mexico Health Sciences Center will work with community partners to help New Mexico make more progress in health and health equity than any other state.

MISSION
We will provide an opportunity for New Mexicans to obtain an excellent education in health sciences, advance health discovery and innovation in the most important areas of human health and ensure that all populations in New Mexico have access to the highest-quality health care.

CORE VALUES
The UNM Health Sciences Center’s mission is guided by our values of excellence in education, patient care and research, commitment to service, quality and safety, integrity and accountability, respect and compassion for all people, teamwork and collaboration – and providing hope for those we serve.
CONTENTS

LETTERS
Richard S. Larson, MD, PhD
Executive Vice Chancellor
Vice Chancellor for Research 2

Martha Cole McGrew, MD
Interim Dean, School of Medicine 3

Christine Kasper, PhD, RN
Dean, College of Nursing 4

Donald Godwin, PhD
Dean, College of Pharmacy 5

Tracie Collins, MD, MPH
Dean, College of Population Health 6

FEATURES

Pandemic Partnerships
When COVID-19 Came to New Mexico, Health Sciences Researchers Teamed Up to Study the Novel Coronavirus
Michael Haederle, Michele Sequeira and Kara Leasure Shanley 7

Cerebral Support
Domenici Hall to Host Brain Injury and Substance Use Disorder Research
Robert Oliver 11

Major Milestone
UNM to Launch New Alzheimer’s Disease Research Center
Michael Haederle 13

Gauging the Risks
UNM METALS Superfund Study Evaluates Toxic Exposures
Rebecca Sena 14

Diving into the Data
New College of Nursing Research Sheds Light on Health Policy
Michael Haederle 15

Storytelling Solution
Developing Unique Interventions to Stem Teen Suicide
Rebecca Roybal Jones 16

Double Honors
Angela Wandinger-Ness Receives 2020 Awards
Michael Haederle 17

Sound Investment
UNM’s T32 Programs Provide Critical Support
Yamhilette Licon Muñoz 18

2020 HSC Training Grants 20
2020 Research Excellence Awards 24
2020 HSC Grant Listings 27
Information for Donors Inside Back Cover
I’m very pleased to report that the UNM Health Sciences Center was awarded a record $205.8 million in external research funding during FY 2020, representing net growth in 15 of the past 16 years.

This remarkable achievement is especially significant given the epic challenges faced by academic health centers like ours in the face of the COVID-19 pandemic. I’m extremely proud of the way our faculty, staff and students stepped up to keep our research enterprise on track this year.

We recently received a third five-year renewal of our Clinical and Translational Science Award from the National Institutes of Health, and in coming months we anticipate renewal of the UNM Cancer Center’s comprehensive designation by the National Cancer Institute.

These achievements are truly a tribute to your drive and hard work. UNM HSC scientists are advancing the understanding, diagnosis and treatment of many diseases, including asthma, cancer, stroke, Alzheimer’s disease, substance abuse, heart disease and behavioral health conditions.

Our work extends beyond the lab: our faculty members conduct research in underserved and rural areas throughout New Mexico, where they are improving access to care, addressing chronic disease and increasing access to clinical trials and state-of-the-art technologies.

Research distinguishes academic health centers like ours from other health care providers. In fact, the integration of research, education and clinical care at academic health centers drives much of the innovation in the U.S. health care system. We should all be proud of our contributions to the advancement of health and health care in our nation.

Through our grant funding, the UNM HSC research mission provides tremendous economic impact and job creation for New Mexicans. New discoveries and patents stimulate business creation and support a growing bioscience industry. Most important, our research has a powerful impact on health care, both locally and nationally.

As I frequently remind friends and colleagues, research brings hope, and I’m confident that in the coming year we will play a vital role in improving health care in New Mexico, the U.S. and the world.
The COVID-19 pandemic has affected every facet of our lives, and challenges us in ways most of us have never experienced. Since becoming interim dean in July, I have been impressed with our researchers’ efforts to develop vaccines, find effective therapeutics and devise sterilization methods to preserve personal protective equipment.

The Department of Neurosciences, led by Bill Shuttleworth, PhD, has been continually funded for its Center for Brain Recovery and Repair and the New Mexico Alcohol Research Center, as well as a National Institutes of Health training grant. The department ranks 17th nationally in NIH neurosciences research funding.

The Research Education Office has fostered undergraduate, pre-doctoral and post-doctoral biomedical training and career development. Congratulations to senior associate dean Tom Resta, PhD, and his team for overcoming the many challenges imposed by the ongoing pandemic.

Jennifer Gillette, PhD, associate professor in the Department of Pathology, helped transform the Undergraduate Pipeline Network into a completely remote experience, including a virtual symposium that highlighted some of the nation’s most promising student researchers.

Laura Gonzalez Bosc, PhD, professor of Cell Biology & Physiology, assumed leadership of the Biomedical Sciences Graduate Program and led efforts to adapt to pandemic restrictions and integrate anti-racism education into the curriculum.

Justin Baca, MD, PhD, associate professor of Emergency Medicine, has been named director of the MD/PhD degree program. I’m excited by the prospects for continued growth of this program under his leadership.

I’d also like to acknowledge our NIH-funded training programs in alcohol research, infectious disease and inflammation, cardiovascular disease and academic science education and research. These programs have greatly enhanced research education for our trainees.

Finally, recognition is due to Angela Wandinger-Ness, PhD, professor in the Department of Pathology, who was honored with the 2020 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring. She also received the 2020 American Association for the Advancement of Science Lifetime Mentor Award. We are fortunate to have her as a member of our faculty.

Thanks to everyone who has made these research programs a success. They are central to our institution’s mission and promise to enhance the health and well-being of New Mexicans.
The College of Nursing is adapting in the face of the COVID-19 pandemic as it prepares the next generation of nurses to address urgent health care needs and improve health for New Mexicans, the nation and the world.

Nurses, consistently rated as the most trusted health care professionals, have an obligation to develop new approaches and methods through our practice and research.

I’m pleased to welcome Patricia Watts-Kelley, PhD, RN, FNP-BC, to the College as associate dean for Research and Scholarship. She brings extensive research and mentoring experience that will grow our scholarship and research programs while increasing our extramural funding.

Dr. Watts-Kelley is a retired Navy captain who has held research and leadership positions within the federal government, including health sciences officer in the Department of Veterans Affairs Office of Research & Development. She also held the position of deputy director of Nursing and Allied Health Research at the Navy Medicine Headquarters. She served as the first Navy executive director of the TriService Nursing Research Program and she was director of research services at the National Naval Medical Center.

Her research focuses on clinical knowledge development and continuity of care for wounded service members, military and veteran caregiver burden, health promotion and self-care management for those living with complex chronic conditions.

Dr. Watts-Kelley will further our goal of being recognized as a premier Nursing Research Intensive College, as our scientific investigations look at health through a nursing lens and approach urgent health care needs with our interdisciplinary approach.

Our faculty in the Departments of Bio-Behavioral Health and Rural Health and Equity have signature strengths in health care disparities and equity, oncology and toxicology, genomics, self-management of complex chronic conditions, military and veteran health, gerontology and caregiver burden, eHealth, health services and policy research.

We are proud of our outstanding alumni, who are changing the face of health care around the world. You’ll find UNM nurses in neonatal and geriatric units across the nation and in hospitals and academic health centers around the globe. Our graduates lead military medical commands, schools of nursing, national nursing organizations, health care systems and federal agencies.

Onward and upward!
College of Pharmacy researchers are committed to improving the health of New Mexicans, including our most vulnerable populations, and tackling the world’s most challenging and public health issues. In the last fiscal year they received more than $10 million in extramural funding.

Beyond dollars, 2020 was a year that demonstrated the responsiveness of College researchers and the impact that our research has had during a global pandemic. When COVID-19 began to spread throughout New Mexico last spring, our researchers jumped into action.

The New Mexico Poison and Drug Information Center teamed up with the Department of Health to establish the state’s COVID-19 hotline to communicate rapidly evolving information. The team also alerted the Food and Drug Administration to a rash of methanol-based hand sanitizer poisonings, which helped to prompt a nationwide warning and eventual product recalls.

Other researchers received National Institutes of Health funding to explore the impact of increased COVID-19 related stress across minority communities already affected by historical trauma.

The College continued its environmental health research with the renewal of our NIH P50 center, which draws on longstanding partnerships with indigenous communities to study the health implications associated with exposure to wastes from abandoned mines, combined with microplastic and other plastic degradation products, and most importantly, to develop critical mitigation strategies.

The College also received an NIH P20 Center of Biomedical Research Excellence grant focusing on the adverse health outcomes of metal contaminants in the Southwest, as well as on harnessing the chemical properties of metals for therapeutic and nutritional purposes.

Our substance abuse disorder research focuses on prenatal alcohol exposure, epigenetic studies and naloxone distribution. We also had continued success in the both clinical and foundational research in cardiovascular disease, infectious disease (particularly HIV and vaccines) and pharmaceutical dosage formulation studies.

Clearly, the impact of our research reaches throughout New Mexico and the U.S., and I am very proud to work with such talented and dedicated faculty, staff and students across the research spectrum to translate biomedical and pharmaceutical science discoveries into improved patient care.
The COVID-19 pandemic has posed significant challenges for us this year in the College of Population Health – but the good news is we have seen significant advances in our research mission alongside the growth of enrollment in our degree programs.

I’m pleased that our signature Transdisciplinary Research, Equity and Engagement Center for Advancing Behavioral Health – the TREE Center – has received supplemental grant funding to develop COVID-related infectious disease modeling.

Assistant professor Shannon Sanchez-Youngman, PhD, received TREE Center supplemental funding for her partnership with the San Miguel Family and Community Health Council in which she helped teens in Las Vegas, N.M., write and produce digital story frameworks involving their experiences related to the risk factors associated with suicide. It’s hoped the intervention will promote new ideas for suicide prevention.

Elsewhere in the College, associate professor Francisco Soto Mas, MD, PhD, MPH, is conducting occupational safety and health research focusing on organic farmers, a subgroup of agricultural workers who have been neglected by national injury and illness surveillance systems. His team has established a new Assessment, Planning & Evaluation Unit (APEU) that provides technical assistance to community organizations and state agencies.

Assistant professor Laura Nervi, PhD, MPH, MSSc, partners with APEU in several projects, leading cooperation with a community primary clinic in Albuquerque and a Clinical & Translational Science Center grant to address language and health literacy barriers among Spanish speakers through a smart-assisted learning program. She also continues a line of research on global health policies.

I’ve continued to develop a project I started while at the KU School of Medicine in Wichita involving the use of a smart phone app to promote healthy eating to address chronic conditions like peripheral artery disease in overweight adults. We hope to see additional testing to gauge its long-term effectiveness.

I’m extremely proud of our College’s research achievements, and I’m looking forward to seeing where they will lead in the coming year.
Pandemic Partnerships

When COVID-19 Came to New Mexico, Health Sciences Researchers Teamed Up to Study the Novel Coronavirus

By Michael Haederle, Michele Sequeira and Kara Leasure Shanley

As the COVID-19 pandemic spread around the globe last spring, University of New Mexico Health Sciences Center researchers sprang into action to study the novel coronavirus and search for lifesaving treatments and vaccines.

For some, the pandemic was an occasion to revisit earlier work. Graham Timmins and Vojo Deretic posted a previously unpublished paper suggesting that the common antibiotics azithromycin and ciprofloxacin might have lung-protecting properties.

Timmins a professor in the College of Pharmacy, and Deretic, professor and chair of the Department of Molecular Genetics & Microbiology, reported on a decade-old study of azithromycin as a treatment for cystic fibrosis patients, who commonly suffer from lung infections.

Azithromycin alleviates symptoms of the disease, which inflames the tissue lining the bronchial tubes, but it appears to help even when patients don’t have an active infection. Similarly, when the coronavirus assaults the lungs, they become inflamed as the body mounts a ferocious immune response, but runaway inflammation can turn deadly, causing multiple organ failure.

Timmins and Deretic think the chemical properties of azithromycin and ciprofloxacin might be key. Both are weak bases, with a pH higher than 7.0. They suspect the drugs neutralize acids within endosomes – tiny membrane-bound compartments inside the lung cells – that can trigger inflammation.

“Even small changes in pH change the ways those sites in the cells work,” Timmins says. “We think that’s the way these drugs work.”

In another collaboration, a trio of University of New Mexico scientists turned to machine learning to cull through a “library” of thousands FDA-approved drugs to identify candidates that could be repurposed as treatments for the COVID-19 infection.

The effort was launched in late March, when the team started looking for – and testing – known drugs that might have antiviral properties, said Tudor Oprea, MD, PhD, professor and chief of the Translational Informatics Division in the Department of Internal Medicine.

Oprea classified each drug molecule according to which viral proteins it might target, enabling him to pinpoint the mechanism by which it might disable a virus – a critical first step. He partnered with Larry Sklar, PhD, Distinguished Professor in the Department of Pathology and director of the Center for Molecular Discovery, which maintains a collection of drug samples.

“Tudor identified molecules in the library that would be tested,” said Sklar, who screened them using a highly efficient method called assay

Chemical and computational analysis helped narrow the list to eight promising drugs, among which the researchers selected three for pilot testing: benznidazole, chloroquine and camostat.

The pill form of benznidazole, which is already approved to treat Chagas disease, is easily absorbable, making it a good candidate for rapid treatment of COVID-19 patients. Chloroquine, whose safety profile is well documented, showed promise in cell studies. The three drugs are being tested in New Mexico patients, and the team has prepared plans for a larger trial in India.

Chemical properties of the drugs and computational analysis helped identify potential targets in the virus, such as the enzyme responsible for the virus’ ability to replicate, or the SARS-CoV-2 protease, a key enzyme in the virus’ lifecycle. The authors were able to pinpoint 14 potential targets for the drugs.

“Now we have identified which drugs are effective,” Oprea said. “We have a lot of numbers. We need to validate them.”

A team of researchers at the University of New Mexico Health Sciences Center also applied their research prowess to fighting the pandemic. They developed a portable system that could test whether someone has recently encountered SARS-CoV-2; another team used artificial intelligence to predict potential COVID-19 infections; a third is designing a scalable, affordable test for COVID-19.

The UNM researchers have partnered with the University of California, San Francisco, the University of California, Los Angeles, and the University of Texas at Austin in a collaborative project to test their technology. The project is funded by a $10 million grant from the National Institutes of Health and the Defense Advanced Research Projects Agency.

“Once we have the technology developed, we expect to be able to manufacture the test quickly and distribute it to people,” Oprea said.

UNM researchers are also collaborating with Pittcon 2021, the world’s largest analytical science event, to use their new test at the conference, which will be held in person this year.

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miniaturization. Drug candidates were then passed on to Steven Bradfute, PhD, assistant professor in UNM’s Center for Global Health, who tested them against the live virus in his Biosafety Level 3 laboratory.

The UNM team then shared its list of candidates with the National Center for Advancing Translational Sciences (NCATS) to see whether NCATS could confirm their findings.

As SARS-CoV-2 coronavirus reproduces, variations appear in its genetic code. Accumulating over time, these changes are like fingerprints, leaving a telltale trail of clues about where the virus has been – and where it might be headed.

HSC researchers Darrell L. Dinwiddie, PhD, and Daryl Domman, PhD, took on the role of genomic detectives to help crack the case.

Dinwiddie, an assistant professor in the UNM Department of Pediatrics, sequenced coronavirus samples in his molecular genomics lab.

Dinwiddie collaborated in the analysis with Domman, PhD, an assistant professor in the Department of Internal Medicine who specializes in genomic epidemiology and has had prior experience following outbreaks of cholera around the world.
They partnered with SARS-CoV-2 SPHERES, a national consortium of research universities and public health departments sponsored by the National Center for Emerging and Zoonotic Infectious Diseases (a branch of the Centers for Disease Control and Prevention) that pooled crucial information about the virus.

The coronavirus genome is encoded in strands of a molecule called RNA. Minor changes in the sequence of nucleotides within the strand provide information about how closely related one viral sample is to another.

The consortium used these samples to create a viral family tree. A preliminary analysis of samples collected in New Mexico suggested there were multiple introductions of the virus into the state, which is consistent with early reports of cases among people who had traveled abroad or domestically.

Genomic variation in viral reproduction is a natural process. “For the SARS-CoV-2 the rate of genomic change has been fairly stable,” Dinwiddie said. “We know how quickly it changes. Based on that information we can make predictions about how far back different samples have gone.”

Meanwhile, in the Department of Molecular Genetics & Microbiology, longtime collaborators David Peabody, PhD, and Bryce Chackerian, PhD, joined the worldwide race to develop a vaccine to prevent COVID-19 infections.

Over the years they have used virus-like particles to tailor vaccines that can attack a host of different targets, including human papillomavirus, malaria and even metastatic breast cancer cells.

In this case, Peabody said, “We make a virus-like particle that displays on its surface bits of SARS-CoV-2, and if those bits of SARS-CoV-2 elicit antibodies that neutralize the virus, that’s a vaccine.” The pair partnered with Bradfute’s lab at the Center for Global Health, and Kathryn Frietze, PhD, and Alison Kell, PhD, in Molecular Genetics & Microbiology to test their vaccine candidates.
Center for Global Health faculty also turned their attention to studying patterns of SARs-CoV-2 infection under the guidance of director Douglas J. Perkins, PhD.

A team visited University of New Mexico Hospital to look for fomites: something in the environment that could carry infection. Team members swabbed surfaces around the hospital that could be contaminated with the virus, including personal protective equipment and the exposed skin of health care workers.

In the lab, Perkins and his team isolated RNA from the swabs to see if any of it was from SARS-CoV-2. If they found viral RNA, the team exposed cultured cells to that contaminated sample to see if the virus would grow.

Another team collected nasopharyngeal swabs and blood samples from COVID-19 patients hospitalized at UNMH to study their immune responses. They categorized the samples as severe or non-severe based on the patients’ symptoms and survival. Then, the samples were subjected to next-generation sequencing to discover what gene networks differed between the two categories.

“Once you find emergent pathways that are good for discriminating between the groups, you go in and look specifically at that pathway and all the genes in it,” Perkins explained. This helped researchers determine what drugs might block “severe disease genes” and test how they work in the severe patients’ blood cells.

Christina Salas, PhD, associate professor in The University of New Mexico Department of Orthopaedics & Rehabilitation usually focuses on biomedical engineering problems, like developing new joint replacements.

But when the COVID-19 pandemic reached New Mexico, she and a team of volunteers, engineering students and research assistants manned 3D printers to produce thousands of protective face masks and face shields, most of which found their way to the Navajo Nation.

In August, Salas and flight nurse Laura Kief Shaffer, her partner on the mask-printing project, were featured among “The Badass 50, Healthcare Workers Who Are Saving the Day” in InStyle magazine.

The mask-printing effort was launched after Shaffer, who was helping to transport patients from hospitals in Gallup, found workers there wearing bandanas instead of surgical masks and wrapping themselves in plastic bags because they lacked sufficient PPE to safely work around COVID patients. Shaffer’s plea for help found its way to Salas, who was ready with a technical solution.

The masks are made in four color-coded sizes. Each 3D printer can create multiple masks at a time, an automated process that takes 12 to 14 hours. Afterwards, the volunteers sand each mask down to remove excess filament and package it for shipping.

The soft plastic mask hugs the face, and a detachable cartridge holds commercially available air conditioning filters capable of blocking the passage of the coronavirus. The masks can be wiped down with alcohol or hydrogen peroxide – or sterilized with ultraviolet light – and are reusable.

Salas has made frequent trips to Gallup hospitals and eastern Navajo chapters to assess the need for PPE. “We bring along donations of food, water and diapers – you name it – anything someone might need a disaster relief situation.”
The University of New Mexico Health Sciences Center has received $4 million in funding from the National Institutes of Health to expand facilities at Pete and Nancy Domenici Hall to support Interdisciplinary Substance Use and Brain Injury research with state-of-the-art equipment and laboratory space.

Executive Vice Chancellor Richard S. Larson, MD, PhD, in collaboration with Bill Shuttleworth, PhD, professor and chair of Neurosciences, Brandi Fink, PhD, associate professor in the Department of Psychiatry & Behavioral Sciences, and Ludmila Bakhireva, MD, PhD, MPH, professor in the College of Pharmacy, applied for the Biomedical Research Facilities Co6 matching funds grant to create a new core facility to further interdisciplinary research into substance use and brain injury.

Domenici Hall is already the site of ongoing brain-focused research. Construction is estimated to be completed by Summer 2022, and although there may be delays due to the COVID-19 pandemic, the prospect of new research space has already stimulated the development of new grant funding and novel research at UNM HSC.

“Brain injury and substance use are two research areas that are critical for New Mexico,” Shuttleworth said. “This facility will be invaluable for bringing together the best talent in the region, and create the critical mass needed to tackle tough problems.”

Neuroscience integrates ultrafine research at the cellular and molecular level, animal behavior, human-based brain functional studies – and ultimately, human behavior itself.

With this in mind, the grant task force sought to develop a facility where all of these levels of research could occur in the same space. “The ground floor focuses on preclinical work, while the second floor houses clinical research and ‘big-data’ analyses,” Shuttleworth said.

“Having everyone in the same building, and sharing common resources increases efficiency, but also provides the opportunity for ‘coffee pot’ talk between researchers in different neuroscience subfields,” he said. A molecular neurobiologist and a clinical MRI researcher might come up with an entirely new way of solving a research question in the course of a short conversation in between experiments.
The new facility will also allow for the seamless combination of research strategies at different levels for more holistic research projects, including “wet lab” molecular research spaces, animal behavioral facilities and novel human-focused research laboratories – some of the most state-of-the-art research spaces in the state, and possibly the Southwest.

One human behavioral suite will be an “apartment” laboratory, designed to mimic an everyday living space. It will allow researchers to study interpersonal relationships between subjects performing everyday chores or cooking.

An alcoholism-focused laboratory seeks to reconstruct a bar environment to study the effect of alcohol-related cues that could lead to relapse. This facility will be used in conjunction with a group therapy center to develop better interventions to mitigate a patient’s propensity to relapse in response to these cues.

The bar laboratory might also be used in conjunction with human brain-imaging facilities to study how activity in specific brain regions shifts in response to those cues.

The promise of this new facility has already stimulated new collaborations among UNM researchers. Development of the new facility was also integral to recent renewal of the UNM Center for Brain Recovery and Repair, an NIH-funded COBRE center grant led by Shuttleworth to develop interventions for stroke and traumatic brain injury.

“The main point of the building is to provide nationally competitive resources to attract best researchers regionally and increase the critical mass of investigators working on these two topics (brain injury and substance use) that are of such critical importance of communities around New Mexico,” Shuttleworth said.

“We want to create critical mass of the best and brightest in the region working on these important problems,” he said. “Creating a state-of-the-art physical home is a big step forward, and we’re excited to get to work.”
The National Institute on Aging has awarded a three-year $3.1 million grant to establish an exploratory Alzheimer’s Disease Research Center at The University of New Mexico that will provide care and clinical investigation for residents with cognitive decline.

The new center – one of four that are joining an existing network of 31 federally funded Alzheimer’s centers – will provide New Mexicans with access to the latest in clinical evaluation, treatment and research for the cognitive disorders that will afflict a growing number of people as the population ages.

“Our exploratory center will prioritize American Indians and other rural and underserved populations in New Mexico,” said Gary Rosenberg, MD, director of the UNM Center for Memory & Aging and the principal investigator on the new grant.

“This will be one of the only Alzheimer’s centers in the Mountain West,” he added. “Except for one in Arizona, there are none in Colorado, Utah, Texas and the other states up to the Canadian border. This gives us unique opportunities to improve dementia care in New Mexico and surrounding states.”

The new centers mark a strategic expansion into areas of the country that until now have been under-represented in Alzheimer’s research. The UNM group will provide an on-site cognitive assessment clinic and use a mobile magnetic resonance imaging scanner to incorporate cognitive and dementia care for Native Americans who reside in rural areas of New Mexico.

The scanner is operated by the Mind Research Network, which shares quarters on the UNM Health Sciences campus with the Center for Memory & Aging. Once the COVID-19 threat subsides, the study will begin on New Mexico reservations and pueblos with the Mobile On-Site Screening and Testing program.

The Center will also focus on co-morbid diseases in a partnership with several pueblos established by UNM scientist Vallabh “Raj” Shah, PhD. Shah has spent a quarter century working with Zuni Pueblo to help mitigate health effects of diabetes and kidney disease. He is joining in this new initiative, as these diseases are major contributors to cognitive decline and dementia.

While UNM’s new exploratory center will enhance relationships between the School of Medicine and the state’s American Indian communities, it will also engage those with memory disorders throughout the state to participate in clinical care, treatments and research, Rosenberg said.

The grant provides funding for three years to establish and enhance cognitive care and research programs at UNM, Rosenberg said. This will pave the way for a successful transition to a fully established Alzheimer’s Disease Research Center that will serve as a long-term resource for New Mexico.

The new centers mark a strategic expansion into areas of the country that until now have been under-represented in Alzheimer’s research.
Studies have primarily focused on uranium exposure, but it has become apparent that “virtually every metal you can think of contaminates these sites,” Lewis says.

The METALS center takes a multidisciplinary approach, with collaborations occurring between UNM Main Campus and the Health Sciences Center. Main Campus experts are focusing on the environmental aspects of the study, including the movement and transport of mine waste, while HSC faculty are focusing on the biology.

One project looks at the toxic effects of metal exposure on a cellular level and has already unearthed some exciting discoveries.

“Uranium and arsenic, both of which are in the waste we look at, were found to inhibit the ability of the body to repair damage to DNA,” Lewis explains. Essentially, these metals can attach to pockets in DNA molecules to prevent the binding of zinc, an element critical for the function of a DNA damage-repair protein.

“The interesting thing about that finding was if you had a sufficient amount of zinc in the system, it outcompetes the metals to restore the function of the protein,” she says. Unfortunately, a large percentage of the Navajo community are zinc deficient, which really “sets up the perfect storm,” Lewis says. This work is still ongoing, and researchers continue to learn more about how various metals interact in the process of DNA repair.

Another major problem that Lewis and her colleagues encounter with metal exposure in the Native American population is immune dysfunction. “We started looking at the immune response, because clinicians saw a need to treat much more aggressively for infectious disease,” Lewis says.

“Inflammation produced by these metals in various systems is one of the fundamental problems that we are seeing.”

The production of cytokines, the chemical messengers that mediate the immune response, are also believed to contribute to the dysfunction.

Lewis believes that the collaborative efforts and community involvement of the METALS Center benefits everyone. “When you bring that many perspectives in on it, it creates a synergy that you do not get in an individual lab,” she says. The ultimate goal of the METALS project is not only to better understand how exposure is occurring, but to reduce the risk of exposure and develop an effective intervention.

“It’s not just about understanding our basic science mechanisms, but how we can use that knowledge to reduce the risk that people are facing to drive better cleanup, break exposure and reduce effects.”
Data-driven medical records analysis that promises to shed light on major health policy challenges underpins several new research initiatives launched within The University of New Mexico College of Nursing over the past year.

Dean Christine Kasper, PhD, RN, and doctoral student LisaMarie Turk, MSN, RN, are collaborating on a study of de-identified medical records to characterize the transition to adult health care for young people with special health care needs. The work is being supported by a subaward from the UNM Clinical & Translational Science Center.

“It’s exciting because it’s a doctoral student who got this award,” said Patricia Watts-Kelley, PhD, FNP, who earlier this year was appointed Associate Dean for Research and Scholarship for the College. “It’s really a big deal, and it’s kudos to Dr. Kasper and to Lisa Marie.”

Turk, who has a sibling living with epilepsy, has a personal interest in the question of how to help young people living with chronic conditions effectively transition to health care as an adult.

“This study is aiming to characterize, model and simulate the transition of individuals, particularly adolescents and emerging adults with medical burdens and health care needs, and their transition to adult health care as opposed to pediatric health care,” she says.

“We know that poor transitions are associated with frequent visits to emergency rooms and other forms of high-intensity care, because there is a known gap that occurs between pediatrics and adulthood.”

Turk says the study, which is collecting data from more than 700 hospitals and health care facilities, has significant policy implications. “One of the known issues is the loss of the typical funding source or insurance, because that changes oftentimes in adulthood,” she says. “There is a variation in policy and clinical applications across the country.”

Children with special health care needs, such as intellectual disabilities, neurodevelopmental issues, autism, cerebral palsy, cancer, diabetes and sickle cell anemia, have better prospects than was once the case.

“Given our advances in medical treatment, children who typically didn’t live far into adulthood are now living into adulthood,” Turk says, “but the clinical applications haven’t caught up.”

In a second study, the College of Nursing is partnering with Sandia National Laboratories in a Cooperative Research and Development Agreement to use cutting-edge artificial intelligence and machine-learning techniques to study the impact of COVID-19 outbreaks on hospital surge capacity.

Associate professor Mary Pat Couig, PhD, MPH, RN, in partnership with Dean Kasper and Sandia researchers Patrick Finley and Drew Levin, is applying modeling and advanced data analytics to an electronic medical records database to shed light on the problem.

Focusing both on New Mexico and the nation as a whole, the team seeks to identify the populations known to be at higher risk. Where is the nearest access to health care and what is the capacity to provide those services?

Sandia scientists bring broad modeling and analytics expertise to the project, while Couig’s team is applying their extensive expertise in public health emergency preparedness.

One outcome, they say, is to design quantitative data-driven risk predictors to better anticipate future hospital case loads, outcome metrics and suggested courses of treatment based on patient demographics and medical history.

This timely collaborative research agreement could also open the way for broader application of artificial intelligence, data analytics and modeling across a wide range of nursing, health care and public health issues in New Mexico.
For a year and a half, Shannon Sanchez-Youngman, PhD, worked with youth leaders in the tight-knit community of San Miguel County to learn about the stressors they face and come up with interventions to prevent teen suicide among Latinos.

The result was a series of digital stories created by the youth leaders.

Now, the research scientist with UNM’s College of Population Health is working to expand the study to include more young people in rural New Mexico. She collaborates with the Transdisciplinary Research, Equity and Engagement Center for Advancing Behavioral Health (TREE).

The research pilot aimed to uncover the causes of stigma related to suicide, particularly around Latino populations and rural communities, as well as to look beyond the usual mental health services, Sanchez-Youngman says.

“These are kids that seemingly have perfect lives, right? They’re athletes, they’re getting good grades,” Sanchez-Youngman says. “But underneath it all, they really revealed a lot of inadvertent community pressure on them to succeed because they’re under a spotlight in a rural town, and that’s really important.

“This is really about rural youth and feeling like they were under a constant microscope to sort of live out where their parents failed, and also to make the community proud.”

For teens who aren’t at the top of their class, Sanchez-Youngman expects to find different struggles involving marginalization.

“When populations experience inequities in health or disparities in health – Latino, Latina youth – (they) may be more likely to commit suicide compared to whites,” she says. “Some of the explanation has to do with their position in society. And so the expectation is that these social determinants of health explain partly how people experience mental health issues.”

For example, she says, an immigrant whose parents crossed over to the United States from Mexico may worry about deportation, hostility in the community and where the next paycheck is coming from.

“Let’s compare it back to those leaders,” Sanchez-Youngman says. “Those youth were feeling a sense of stigma and marginalization by the pressure to be perfect, which is a very different process than maybe a kid whose mom is hooked on opioids. And there’s shame associated with that. But this work is very much interested in how those social conditions impact a sense of belonging, a sense of whether I can succeed or not, which are different mechanisms.”

The San Miguel County pilot study will expand to include more youths and other communities, so that participants can share their stories with each other and work to propose ideas to community leaders on addressing their stressors.

The work is mainly done by teens for teens with professional support so that they’ll be able to reach out to other kids. “The stories are what make a difference,” she says.
Double Honors

Angela Wandinger-Ness Receives 2020 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring

By Michael Haederle

The last out-of-town trip Angela Wandinger-Ness, PhD, took before the COVID-19 lockdown was to Seattle, where, on February 15, she received the 2020 Lifetime Mentor Award from the American Association for the Advancement of Science (AAAS).

Six months later, Wandinger-Ness, a professor in The University of New Mexico Department of Pathology who serves as associate director for education, training and mentoring and the Victor and Ruby Hansen Surface Endowed Professor in Cancer Cell Biology and Clinical Translation at the UNM Comprehensive Cancer Center, received the 2020 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring.

Wandinger-Ness was among 12 researchers who were honored with the award on August 3 – this time virtually – in an online ceremony presided over by Robert Mayes, program director for Excellence Awards in Science and Engineering at the National Science Foundation.

The award, billed as “the Nation’s highest honors for mentors who work with underrepresented groups to develop fully the Nation’s human resources in STEM,” comes with a $10,000 honorarium.

“It’s incredibly humbling to be the recipient of these really prestigious awards this year,” she said. “It’s really with the support of the trainees and mentees who feel you’ve made a difference in their lives. It’s deeply meaningful.”

Wandinger-Ness, who joined the UNM faculty in 1998, studies GTPases, a family of enzymes that operate as molecular switches in many different cellular functions. She currently is looking for way to translate her work into potential therapies for ovarian cancer. Her research has been funded by the National Science Foundation, American Heart Association, National Institutes of Health, Department of Defense and private foundations.

She has twice been singled out by her colleagues at the UNM Health Sciences Center for the annual Excellence in Research Award and was nominated for the Presidential award by Valerie Romero-Leggott, MD, the HSC’s vice chancellor for Diversity, Equity and Inclusion. Wandinger-Ness has made mentorship a centerpiece over the course of her 33-year career, having personally mentored 74 students and fellows in her laboratory. Her trainees, from five continents, bring their diverse abilities, culture, educational opportunity, gender, race/ethnicity and socioeconomic backgrounds to solve complex problems. Her mentees encompass more than 370 students, postdoctoral fellows and junior faculty.

She was honored by being elected a fellow of the AAAS, the world’s largest scientific society, in 2012.

“You become part of a network of people who are like-minded, and therefore you can connect more broadly across the country and have a bigger impact,” she said of her membership in the society. “You can use that capital to help your trainees more, to connect more, to learn more and bring new things to your work area.”
SOUND INVESTMENT

UNM’s T32 Programs Provide Critical Support for Graduate Students and Postdoctoral Fellows

By Yamhilette Licon Muñoz

Ruth L. Kirschstein made history as the first woman to direct one of the National Institutes of Health. An active promoter of training programs to mentor underrepresented scientists, she knew the importance of investing in scientists to ensure the advancement of knowledge.

The Ruth L. Kirschstein Institutional National Research Service Award – also known as the T32 award – is a major training program supported by the National Institutes of Health (NIH).

The University of New Mexico Health Sciences Center currently has three T32 training arms: The Alcohol Research Training Program, the Cardiovascular Research Training Program and the Infectious Disease & Inflammation Program.

All three are designed to support the careers of graduate students and postdoctoral fellows.

“The Alcohol Research Training Program in Neurosciences provides graduate students with multidisciplinary research training that prepares them for a successful career in alcohol research,” says training program director C. Fernando Valenzuela MD, PhD. “Currently, we have four graduate students enrolled in the program.”

This program is funded by a T32 grant from the National Institute of Alcohol Abuse and Alcoholism (NIAAA) and the research focus includes different areas of alcohol neuroscience research, such as Fetal Alcohol Spectrum disorders, alcohol craving, dependence, tolerance and withdrawal, and the stress, hormonal and cognitive effects of alcohol.

The award provides tuition, fees, insurance and stipend support from the NIH and NIAAA. In addition, students receive funds for research supplies and travel expenses to scientific meetings. “We help the students to network with other experts in the field,” Valenzuela says.

The UNM Center for Infectious Disease and Immunity has developed the Infectious Disease & Inflammation Program (IDIP) T32 training grant. Under the direction of Michelle Ozbun PhD, this program studies infectious and immunologically mediated diseases.

IDIP accepts four predoctoral students and two postdoctoral fellows and pairs trainees with mentors. Mentors are experts on the infectious diseases and immunity field at UNM, the UNM School of Medicine and the Lovelace Respiratory Research Institute.

UNM’s Cardiovascular Research Training Program (CRTP) is funded by a T32 grant from the National Heart, Lung, and Blood Institute. The CRTP currently funds six predoctoral and two postdoctoral trainees.

The CRTP consists of 25 mentoring faculty from 12 basic science and clinical departments and/or colleges, including 15 professors, four associate professors and six assistant professors. The areas of research include vascular biology, cardiovascular toxicology, cell signaling and clinical/translational science.

“Our CRTP provides an integrative approach to understand the mechanisms of cardiovascular disease,” says Thomas Resta PhD, current director of CRTP. “We have mentors who work both in basic science and translational research.”

The quality and variety of mentors has contributed to the success of UNM’s T32 programs. To be funded, NIH requires a strong group of
established scientists with high expertise on the field. The existence of the T32 grants has propelled the development of concentrations of coursework and journal clubs designed to ensure specialized training in the areas of cardiovascular physiology, infectious disease and inflammation and alcohol research.

To be part of the program, NIH requires trainees to be U.S. citizens or permanent residents and to work with a mentor who is part of the T32 award. The trainees themselves are huge contributors to the T32 program’s success, measured in large part by how many go on to accomplished research careers.

“We have improved the program over the years using the feedback from our students,” Valenzuela says.
Research 2020 Training Grants

Rostin Ahmadian, MD/PhD
Candidate
T32 Scholar, NIH
Oxidant signaling in pulmonary hypertension
Mentor: Thomas Resta, PhD

Eduardo Anaya, PhD
T32 Scholar, NIAID
Infectious disease, cell signaling and biophysics
Mentor: Aaron Neumann, PhD

Elizabeth Bailey, PhD
K12 Scholar, NIGMS
Adapting single-particle techniques to interrogate receptor signaling complexes, primarily with the B cell receptor
Mentors: Diane Lidke, PhD; Keith Lidke, PhD

Victoria Balise, PhD
K12 Scholar, NIGMS
Identifying how tetraspanins regulate processes involved in hematopoietic stem and progenitor cells
Mentors: Jennifer Gillette, PhD; Alicia Bolt, PhD; Leah Freeman, PhD

Cindy K. Blair, PhD
K07 Scholar, NCI
Developing expertise in the design and dissemination of home-based interventions that use a whole-of-day approach to physical activity in older cancer survivors.
Mentors: Sally Davis, PhD; Vernon Shane Pankratz, PhD; Carla Herman, MD; Wendy Demark-Wahnefried, PhD; Anita Kinney, PhD

Eliseo Castillo, PhD
KL2 Scholar, NCATS
Understanding the gut microenvironment, immune cells and microbiota in intestinal health and inflammation
Mentors: Judy Cannon, PhD; Hengameh Raissy, PharmD

Laura Weise Cross, PhD
T32 Scholar, NIH
Oxidant signaling in pulmonary hypertension
Mentor: Thomas Resta, PhD

Thomas De Pree, PhD
K12 Scholar, NIGMS
Understanding of the interdisciplinary relationship between earth and planetary sciences, environmental health sciences and the civil and environmental engineering employed at so-called ecological “sacrifice zones” in northwestern New Mexico
Mentors: Debra MacKenzie, PhD; Johnnye Lewis, PhD; William Schaedla, PhD

Sharina Palencia Desai, PhD
T32 Scholar, NIAID
T cell trafficking during ovarian cancer disease progression in the peritoneal tumor environment
Mentor: Sarah Adams, MD
Tammi Duncan, PhD  
K12 Scholar, NIGMS  
Demonstrating that arsenite induced an oxidative stress and DNA damage response in human T-lymphocytes, while uranium had no effect  
Mentors: Laurie Hudson, PhD; Matthew Campen, PhD; Terri Koontz, MS

Daniel Falcón, PhD  
K12 Scholar, NIGMS  
Regulatory T cell editing in response to PARP inhibition and CTLA4 immune checkpoint blockade.  
Mentors: Sarah Adams, MD; Judy Cannon, PhD; Matthew Campen, PhD; Terri Koontz, MS

Máté Fischer, PhD Candidate  
T32 Scholar, NIAAA  
Stem cell culture, neurodevelopment, FASD disease modeling, gene expression, cortical patterning  
Mentor: Jason Weick, PhD

Muskan Floren, PhD  
F31 Fellow, NCI  
Identifying key regulators of chemotherapy resistance in acute myeloid leukemia (AML) and developing therapies that are directed toward the AML cell population residing within the bone marrow  
Mentor: Jennifer Gillette, PhD

Kathryn Frietze, PhD  
KL2 Scholar, NCATS  
Investigation of antibody responses to infectious diseases, developing vaccines against Chlamydia trachomatis, Dengue virus and opioids  
Mentors: Bryce Chackerian, PhD; Thomas Byrd, PhD

Selina Garcia, PhD Candidate  
F31 Fellow, NHLBI  
Studying the role of the acid-sensing ion Channel 1 in the systemic vasculature  
Mentor: Nikki Jernigan, PhD

Kymberly Gustus, PhD Candidate  
F31 Fellow, NIAAA  
Adult hippocampal neurogenesis as a therapeutic target in Fetal Alcohol Spectrum Disorder  
Mentor: Lee Anna Cunningham, PhD

Julie In, PhD  
K01 Scholar, NIDDK  
Mechanism of Wnt and Hedgehog signaling in intestinal injury and regeneration; role of serine protease enterotoxins in watery diarrhea  
Mentors: Olga Kovbasnjuk, PhD; Eric Prasznitz, PhD

Elton Jhamba, PhD  
K12 Scholar, NIGMS  
Developing super-resolution microscopy technologies to study protein-protein interactions on mast cell membranes in allergic responses, and the interplay of receptor tyrosine kinases on cancer cells  
Mentors: Diane Lidke, PhD; Keith Lidke, PhD

Benjamin Lantz, PhD Candidate  
T32 Scholar, NIH  
Pulmonary hypertension  
Mentor: Laura Gonzalez Bosc, PhD

Christy Mancuso, PhD  
K12 Scholar, NIGMS  
Elucidating how dietary and environmental markers can be used to learn more about an individual’s diet and movement/migration using stable isotope ratio biomarkers  
Mentors: Seth Newsome, PhD; Heather Edgar, PhD, William Schaedla, PhD

Kathryn Frietze, PhD  
KL2 Scholar, NCATS  
Investigation of antibody responses to infectious diseases, developing vaccines against Chlamydia trachomatis, Dengue virus and opioids  
Mentors: Bryce Chackerian, PhD; Thomas Byrd, PhD

Julie In, PhD  
K01 Scholar, NIDDK  
Mechanism of Wnt and Hedgehog signaling in intestinal injury and regeneration; role of serine protease enterotoxins in watery diarrhea  
Mentors: Olga Kovbasnjuk, PhD; Eric Prasznitz, PhD

Elton Jhamba, PhD  
K12 Scholar, NIGMS  
Developing super-resolution microscopy technologies to study protein-protein interactions on mast cell membranes in allergic responses, and the interplay of receptor tyrosine kinases on cancer cells  
Mentors: Diane Lidke, PhD; Keith Lidke, PhD
Perenkitia Mendiola, PhD Candidate
T32 Scholar, NIH
Identifying regulators of hydrogen sulfide production and signaling within vascular endothelium
Mentors: Nancy Kanagy, PhD, Laura Gonzalez Bosc, PhD

Emily Morin, PhD
K12 Scholar, NIGMS
Investigating endothelial dysfunction and finding new drug delivery methods; cholesterol regulation of vascular tone in hypertension
Mentor: Jay Naik, PhD

Bianca Myers, PhD Candidate
T32 Scholar, NIAAA
Studying the effect of adult alcohol consumption on the progression of glioblastoma multiforme
Mentors: C. Fernando Valenzuela, MD, PhD; Tou Yia Vue, PhD

Sarah Olguin, PhD Candidate
T32 Scholar, NIAAA
Utilizing dura-resting EEG to evaluate prenatal alcohol exposure during rodent touchscreen tasks
Mentor: Jonathan Brigman, PhD

Rob Oliver, PhD
T32 Scholar, NIH
KSRP-directed mechanisms of angiogenesis in glioblastoma multiforme
Mentor: Amy Gardiner, PhD

Erica Pascetti, PhD Candidate
T32 Scholar, NIH
Hematopoietic stem and progenitor cells
Mentor: Jennifer Gillette, PhD

Gabriela Perales, PhD Candidate
T32 Scholar, NIH
Studying angiogenic targets of miR-150-5p and investigating the role of miR-150-5p in regulating angiogenesis in the developing embryos both in vitro and in vivo during prenatal alcohol exposure
Mentor: Amy Gardiner, PhD

Dominique Perez, PhD Candidate
T32 Scholar, NIH
Utility of small molecule inhibitors of cAMP efflux for translation as leukemia therapeutics
Mentors: Larry Sklar, PhD; Alexandre Chigaev, PhD

Katelyn Reinhart, PhD
T32 Scholar, NIH
Study of spreading depolarization (SD), and the basic physiological mechanisms of SD that contribute to the progression of brain injuries, including stroke
Mentor: C. William Shuttleworth, PhD

Melanie Rivera, PhD Candidate
F31 Scholar, NCI
Investigating the role of Rac1 in ovarian cancer metastasis in the peritoneal niche, including the role of immune modulation by a Rac1-targeting drug or knockout
Mentor: Angela Wandinger-Ness, PhD

Emmanuel Rosas, PhD
K12 Scholar, NIGMS
Investigating the role of G-protein coupled estrogen receptor (GPER) in the development of anti-hormone resistance and whether novel therapeutic anti-hormone approaches that prevent cross-activation of GPER can reduce anti-hormone resistance in ERα-positive breast cancers
Mentor: Eric Prassnitz, PhD

Lilliana Sanchez, PhD Candidate
T32 Scholar, NIAAA
Studying moderate prenatal alcohol exposure and its effects on the hippocampus, specifically in associational learning and memory
Mentor: Benjamin Clark, PhD
Raquela Thomas, PhD  
K12 Scholar, NIGMS  
Developing a clinically-relevant model for chimeric tumors that will be utilized to investigate tumor editing in response to oncolytic virotherapy  
Mentors: Eric Bartee, PhD; Allison Kell, PhD; Jennifer Curtiss, PhD

Leslie Toledo-Jacobo, PhD  
K12 Scholar, NIGMS  
Studying the regulatory role of Myotonic dystrophy-related CDC42-binding kinase proteins on migration, invasion and ultimately metastasis of ovarian cancer cells  
Mentors: Angela Wandinger-Ness, PhD; Laurie Hudson, PhD; Jessica Smith, MS

Nikole Warner, PhD  
T32 Scholar, NIAID  
Investigating the antibody response to Dengue virus and using this knowledge to inform vaccine design  
Kathryn Frietze, PhD; Bryce Chackerian, PhD; Kathryn Hanley, PhD

Jordan Weisend, PhD Candidate  
T32 Scholar, NIH  
Cell and molecular mechanisms of protection induced by spreading depolarizations occurring in remaining viable brain tissues following stroke  
Mentor: C. William Shuttleworth, PhD

Lea Weston, PhD  
T32 Scholar, NIAID  
Investigating the relationship between neuroinflammation and tau pathology. Determining the role of anti-inflammatory cytokine IL-10 in tauopathies such as Alzheimer’s disease  
Mentor: Kiran Bhaskar, PhD

Xiang Xue, PhD  
K01 Scholar, NIDDK  
Iron metabolism and GI diseases  
Mentors: Eric Prossnitz, PhD; Olga Kovbasnjuk, PhD
Excellence in Research Awards 2020

The University of New Mexico Health Sciences Center’s 12th Annual Research Day Awards Ceremony was held (via Zoom) on November 20, 2020. The event, hosted by Executive Vice Chancellor Richard S. Larson, MD, PhD, 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.

David Peabody, PhD (top)
Bryce Chackerian, PhD
Molecular Genetics & Microbiology
Team Science (Joint Awardees)

David Peabody and Bryce Chackerian are the very embodiment of team science. Over the past 16 years, Peabody, a microbiologist, and Chackerian, a virologist and immunologist, have partnered to use virus-like particles as a the basis for novel vaccines targeting chronic and infectious disease. They have developed new vaccine candidates against human papillomavirus, malaria, HIV, Chlamydia, influenza and Neisseria. They have also developed novel vaccines for cardiovascular disease by targeting molecules that regulate triglycerides and LDL cholesterol metabolism. And, they have collaborated with researchers throughout the Health Sciences Center and at other institutions. They were jointly named as Innovation Fellows by STC.UNM in 2017 and were elected to the National Academy of Inventors in 2019.

Matthew J. Campen, PhD, MSPH
Pharmacy
Basic Science

Matthew Campen is internationally recognized for his research into the harmful effects of air pollutants in the lungs, as well as the cardiovascular and neurovascular systems. He conducted pioneering work on the toxicity of combustion source mixtures, such as diesel and gasoline engine emissions, and has recently expanded his research to address fundamental questions of how lung responses lead to systemic vascular injury. He has published more than 100 peer-reviewed articles in high-impact journals and is director of a new $20 million Center of Biomedical Research Excellence grant focusing on the role of metal elements in health and biology. Campen also serves as director of the KL2 Mentored Career Development program in the UNM Clinical & Translational Science Center.

Kimberly Page, PhD, MPH
Internal Medicine
Population Science

Kimberly Page has had a long career in population science research, with an emphasis on the epidemiology of viruses, particularly HIV and hepatitis C virus (HCV) infections in high-risk and under-served populations. As a tenured professor in the Division of Epidemiology, she has led some of the most significant research on HCV infection globally and recently completed the only prospective cohort study in the U.S. of HCV in young adults who inject drugs. In 2014, Page and colleagues published the first study in the U.S. showing that opiate agonist treatment reduced HCV incidence by 60% in young adult injection drug users. Her expertise and experience with HCV led to successful funding as co-principal investigator on the only preventive HCV vaccine trial ever conducted.
Steven B. Bradfute, PhD  
Center for Global Health  
Junior Faculty

When SARS-CoV-2 came to New Mexico, Steven Bradfute was ready. An expert on emerging viral pathogens, including Ebolaviruses, hantavirus, equine encephalitis viruses and Zika, Bradfute rapidly established methods for studying the novel coronavirus in the BSL-3 facility that he directs. This has fostered multiple experimental approaches for addressing the challenges of novel coronavirus, including viral pathogenicity, viral replication, drug-screening and methods to measure neutralizing antibody titers in both animal models and humans. His efforts resulted in several publications for which he is the senior author and numerous grant submissions that are awaiting feedback. In addition, Bradfute’s hantavirus research has led to the establishment of an “antibody bank” that has the potential of saving the lives of those newly infected.

Hengameh H. Raissy, PharmD  
Pediatrics  
Clinical Science

As vice chair for research in the Department of Pediatrics, Hengameh Raissy primarily focuses on pharmacotherapy for childhood asthma. She has been the principal investigator for large network trials whose results have been published in *The New England Journal of Medicine, The Journal of the American Medical Association* and *The Lancet*. She has also participated in large multicenter asthma clinical trials, directs the CTSC’s Trial Innovation Network and is the author of more than 80 peer-reviewed papers. Raissy has also brought her expertise to bear in supporting pediatric and adult cystic fibrosis studies at UNM and she conducted the first-in-human trial to test the use of nebulized urea as a diagnostic tool for *Pseudomonas* in CF patients.

Rebecca S. Hartley, PhD  
Cell Biology & Physiology  
Scholarship of Teaching and Learning

UNM anatomy students have long benefited from Rebecca Hartley’s enthusiasm and gift for teaching. Recently, she has been developing, testing and evaluating methods to improve student success in the Phase I medical curriculum. In particular, she is gauging the effectiveness of an integrated curriculum on long-term retention of anatomical knowledge. She has also lent her extensive expertise in the scholarship of teaching and learning to other clinician educators who wish to enhance the learning experience for their clinical mentees. Hartley has also developed numerous Team-Based Learning Application Cases in Anatomy and Embryology for the Phase I curriculum and contributed to a pilot project for the UNM HSC Office for Diversity called “Advancing Institutional Mentoring Excellence.”
## Contracts and Grants 2020

- Office of the Chancellor: 27
- Office of the Executive Vice Chancellor: 27
  - Center for Infectious Disease & Immunity: 27
  - Memory & Aging Center: 27
- Office of the Vice Chancellor for Research: 27
  - Animal Research Facility: 27
- Clinical & Translational Science Center: 27
- College of Nursing: 28
- College of Pharmacy: 28
- College of Population Health: 29
- School of Medicine: 30
  - Anesthesiology & Critical Care Medicine: 30
  - Biochemistry & Molecular Biology: 30
  - Comprehensive Cancer Center: 30
  - Cell Biology & Physiology: 32
  - Dental Medicine: 33
  - Dermatology: 33
  - ECHO Institute: 33
  - Emergency Medicine: 34
  - Family & Community Medicine: 35
  - Internal Medicine: 36
  - Molecular Genetics & Microbiology: 38
  - Neurology: 39
  - Neurosciences: 39
  - Neurosurgery: 40
  - Obstetrics & Gynecology: 41
  - Office of the Medical Investigator: 41
  - Orthopaedics & Rehabilitation: 41
  - Pathology: 42
  - Pediatrics: 43
  - Psychiatry & Behavioral Sciences: 46
  - Radiology: 47
  - Student Services: 47
  - Surgery: 47
- UNM Hospital: 48
- UNM Medical Group, Inc.: 48
OFFICE OF THE CHANCELLOR

Jill Klar
Truman Health Services
Provider Agreement - Evergreen - Continuation $25,000

Steven McLaughlin
State of New Mexico
Emergency and Speciality Services $1,000,000

Suzanne Popejoy
City of Albuquerque
Primary Care/MSW Services Program - Continuation $161,970

Peter Shin
Lovelace UNM Rehabilitation Services
Professional Services $75,000

Katherine Zychowski Bufford
STC@UNM
Lipase Inhibitors to Prevent Rancidity in Expressed Human Milk During Storage $25,000

OFFICE OF THE EXECUTIVE VICE CHANCELLOR

Richard Larson
National Institutes of Health
Biomedical Research Facility $4,000,000

UNM Foundation
Private Gifts for Research
(1st Qtr - FY20) $37,388

UNM Foundation
Private Gifts for Research
(2nd Qtr - FY20) $1,445,711

UNM Foundation
Private Gifts for Research
(3rd Qtr - FY20) $99,842

UNM Foundation
Private Gifts for Research
(4th Qtr - FY20) $5,626,657

Elizabeth Kocher
Miners Colfax Medical Center
Professional Services - Continuation $25,000

A. Robb McLean
New Mexico Department of Health
Locum Tenens Program DOH Physician, PA and NP Services $150,000

New Mexico Department of Health
Physician, PA, and NP Services Project $20,000

Center for Infectious Disease & Immunity

Terry Wu
Advanced Technology International
Nanolipoprotein Particle-Based Subunit Vaccine Against Pneumonic Tularemia - Non-Specific Supplement $965,462

Advanced Technology International
Nanolipoprotein Particle-Based Subunit Vaccine Against Pneumonic Tularemia $500,000

Los Alamos National Laboratory
Obtain Physiological Response Data From Bacterial Cultures $49,464

Memory & Aging Center

Gary Rosenberg
National Institute of Neurological Disorders and Stroke
MRI and CSF Biomarkers of White Matter Injury in VCID $1,101,287

Woolsey Pharmaceuticals, Inc
Woolsey Pharmaceuticals, Inc. $25,000

OFFICE OF THE VICE CHANCELLOR FOR RESEARCH

Larissa Myaskovsky
Dialysis Clinic, Inc.
Improving Healthcare Outcomes in American Indian and Hispanic Transplant Recipients Using Culturally Tailored Novel Technology $316,776

University of Pittsburgh
Increasing Equity in Transplant Evaluation and Living Donor Kidney Transplantation - Continuation $44,105

University of Pittsburgh
Cardiac Resynchronization in the Elderly: Piloting Pacemaker v. Defibrillator Therapy - Continuation $18,810

Surojit Paul
Los Alamos National Laboratory
Los Alamos National Laboratory - Contract # 567915 $20,680

Animal Research Facility

Richard Larson
New Mexico VA Health Care System
Veterinary Services for the N.M. Veterans Affairs Health Care System - Continuation $30,475

CLINICAL & TRANSLATIONAL SCIENCE CENTER

Justin Baca
Sensor-Kinesis Corporation
Development and Testing of Surface Acoustic Wave Analytical System $150,179

Sensor-Kinesis Corporation
COVID-19 Specific Supplement - SARS-CoV2 - Development and Testing of Surface Acoustic Wave Analytical System $49,993

Lee Brown
Ohio State University
The Impact of Low-Flow Nocturnal Oxygen Therapy on Hospital Readmission/Mortality in Patients With Heart Failure and Central Sleep Apnea: A Pragmatic Trial $65,128

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

Kathryn Frietze
National Institutes of Health
Bacteriophage Virus-Like Particle Vaccines Against Dengue Virus Non-Structural Protein 1 $189,375
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<tr>
<th>Name</th>
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<td>Leidos, Inc COVID-19: Adaptive COVID-19 Treatment Trial</td>
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<td>HRSA/Bureau of Health Workforce Care COVID</td>
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<td>City of Albuquerque Genatic Education and Health Maintenance</td>
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<td>Presbyterian Healthcare Services ANE-NPR Program</td>
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<td>Joe Anderson</td>
<td>New Mexico Department of Health BAA/Heart Disease and Stroke Prevention Program Health Systems Intervention Project</td>
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<td>Ludmila Bakhireva</td>
<td>National Institute on Alcohol Abuse and Alcoholism ENRICH-2: Stress-Reactivity and Self-Regulation in Infants With Prenatal Alcohol Exposure</td>
<td>$672,158</td>
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<td>Janice Martin</td>
<td>National Institutes of Health 6/6 Planning for the HEALTHy Early Development Study - Non-Specific Supplement</td>
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<td>Matthew Campen</td>
<td>New Mexico Department of Health Enhancing Pharmacy-Based Naloxone Distribution</td>
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<td>National Institutes of Health 6/6 Planning for the HEALTHy Early Development Study</td>
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<td>Baylor College of Medicine Notification of Access to Toxic Effects of E-Cigs Following Transition From Conventional Cigarettes - Continuation</td>
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<td>National Institutes of Health Inhalation of Contaminated Mine Waste Duds As A Route for Systemic Metal Toxicity</td>
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<td>National Institute of Environmental Health Sciences Mechanisms of Vascular Toxicity From Inhaled Toxicants</td>
<td>$335,592</td>
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UNM Hospital Professional Services $53,600

Sharon Ruyak
Sigma Theta Tau
The Effect of Prenatal Opioid and Alcohol Exposure on Key Human Placental Immune and Serotonin Factors Influenced by TLR4 Signaling Pathways $10,000

Katherine Zychowski Bufford
National Institute of Environmental Health Sciences
Neurovascular Consequences of Inhaled Uranium Mine-Site Dust Exposure - Continuation $249,000
Melanie Dodd
First Choice Community Healthcare
Pharmacist Consultant Agreement - Continuation $93,072

Linda Felton
U.S. Department of Veterans Affairs
Formulation and Batch Records for the VA Medical Center in Albuquerque, N.M. $48,222

Eunice Kennedy Shriver National Institute of Child Health and Human Development
Aqueous-Based Two-Step Spray Drying As a Taste-Masking Drug Delivery Platform $189,375

Donald Godwin
Prime Therapeutics
Pharmacy Participation Agreement - Continuation $125,000

Truman Health Services
Pharmacy Consultant Services $50,000

Pamela Hall
National Institute of Allergy and Infectious Diseases
Vaccine-Mediated Control of Bacterial Virulence Regulation and Infection - Continuation $431,724

National Institute of Allergy and Infectious Diseases
Vaccine-Mediated Control of Bacterial Virulence Regulation and Infection - Supplement $24,925

Laurie Hudson
University of Oklahoma
Targeting G-CSF Receptor and Tumor-Associated Neutrophils in Colon Cancer $12,852

Johnnye Lewis
National Institute of Environmental Health Sciences
UNM Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest Superfund Research Program $1,271,267

National Institutes of Health
P42ES025589 - SRP Administrative Supplement: Data Collaborations $568,136

U.S. Environmental Protection Agency
Center for Native American Environmental Health Research $300,000

Duke University
Attentional Mechanisms Underlying Information Processing in a Sample of Navajo Children $88,493

Ke Jian (Jim) Liu
National Institutes of Health
Mutational Signatures of a Combined Environmental Exposure: Arsenic and Ultraviolet Radiation $523,581

National Institutes of Health
Arsenic, GATA-1, and Hematotoxicity $340,875

National Institutes of Health
Arsenic, GATA-1, and Hematotoxicity - Admin Supplement $97,233

University of Louisville
Particulate Cr(VI) Toxicology in Human Lung Epithelial Cells and fibroblasts $40,513

Debra MacKenzie
Duke University
Using Silicone Wristbands as Non-Invasive Passive Environmental Monitors to Evaluate Seasonal and Within-Family Correlation for Environmental Exposures - Continuation $5,932

Pavan Muttill
Nob Hill Therapeutics, Inc.
Formulation and Preclinical Testing of High-Dose Inhaled Therapy Against Non-Tuberculous Lung Infection $120,898

Clariant Healthcare Packaging
Role of Activated Carbon As an Odor Adsorbent in Pharmaceutical Packaging Applications $16,533

Biological Mimetics, Inc
Stabilization of Inactivated Polio Vaccine Using Spray Drying $9,266

Melissa Roberts
Analysis Group, Inc.
Frequency and Cost of Moderate Exacerbations in Asthmatic Patients in the US $45,000

Sunovion Pharmaceuticals Inc.
A Case-Control Analysis of the Prevalence of Frailty, Cognitive Impairment, and Limited Expiratory Airflow Among Elderly Persons With Chronic Obstructive Lung Disease $40,605

Jay Simon
U.S. Department of Veterans Affairs
Radio pharmaceutical Goods and Services $150,560

Sandia National Laboratories
SNL Isotopes Request $1,750

Susan Smolinske
New Mexico Department of Health
COVID-19 Coronavirus All Hazards Line - Non-Specific Supplement $158,387

Health Resources and Services Administration
Poison Center Stabilization and Enhancement Program $133,289

New Mexico Department of Health
COVID-19 Coronavirus All Hazards Line $109,311

Health Resources and Services Administration
COVID CARES Funding for Poison Centers $31,601

Denver Health and Hospital Authority
Research Abuse, Diversion and Addiction-Related Surveillance System Work Order #15 - Continuation $12,500

Denver Health and Hospital Authority
Research Abuse, Diversion and Addiction-Related Surveillance System Work Order #4 $500

COLLEGE OF POPULATION HEALTH

Lisa Cacari Stone
W.K. Kellogg Foundation
Communities of Practice for Advancing Health Equity-Linking Knowledge, Practice & Policy $100,000

New Mexico Department of Health
New Mexico Maternal Child Health Epidemiology Practicum Project $35,000

UNM HEALTH SCIENCES CENTER 2019 / CONTRACTS AND GRANTS 29
Tracie Collins
National Heart, Lung, and Blood Institute
Texting for Mobility in Overweight/Obese Adults With Peripheral Artery Disease $82,054

Murlynn Lee
Gilead Sciences
Examining Sociocultural Influences, Knowledge, and Acceptability of Biomedical HIV Prevention Methods: Native American College Students $229,101

Laura Nervi
East Central Ministries
Strategic Planning for One Hope Centro De Vida $12,500

Rebecca Rae
Anav Tribal Health Clinic Quartz Valley
Indian Reservation QVIR Evaluation for Youth & Family Tree Project - Continuation $396,291
Santa Clara Pueblo Kha’po Owingeh RezRIDERS Project - Continuation $200,000

Francisco Soto Mas
University of Texas Health Center at Tyler Health, Safety and Psychosocial Organic Farming Survey $94,578

Kristine Tollestrup
Tulane University
ACA - Public Health Training Centers $34,440

Nina Wallerstein
Columbia University
An Experimental Investigation Into the Impact of Socioeconomic Context on Biological Markers of Aging, Health and Mortality $56,982

Vallabh Shah
National Institute of Diabetes and Digestive and Kidney Diseases
American Indian Chronic Renal Insufficiency Cohort Study - Specific Supplement $378,748

Xiang Xue
National Institute of Diabetes and Digestive and Kidney Diseases
Targeting Mitochondrial Iron Metabolism in Inflammatory Bowel Disease $158,882

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 - Continuation $348,832

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 $116,680
New Mexico Cancer Care Alliance
Clinical Trial Phase 3 $112,840
New Mexico Cancer Care Alliance
Clinical Trial Phase 2 $109,640

Prajakta Adsul
New Mexico Department of Health Cancer Prevention and Control Program for New Mexico $5,000

Cecilia Arana Yi
New Mexico Cancer Care Alliance
Clinical Trial Phase 2/3 $107,080
New Mexico Cancer Care Alliance
Clinical Trial Phase 2 $106,440

Eric Bartee
American Cancer Society
Arming Oncolytic Myxoma Virus $506,739

National Cancer Institute
Treatment of Multiple Myeloma Using Oncolytic Myxoma Virus $346,556

National Institute of Allergy and Infectious Diseases
Rationally Combining Oncolytic Virotherapy and TIM3 Blockade $227,250

Jessica Belmonte
New Mexico Cancer Care Alliance
Clinical Trial Phase 3 $112,840
New Mexico Cancer Care Alliance
Clinical Trial Phase 2/3 $109,640

Marianne Berwick
National Cancer Institute
Integration of Clinical and Molecular Biomarkers for Melanoma Survival $536,127

University of North Carolina
Identification of Lethal Melanomas at the Time of Diagnosis (Resub) $63,483

John Rask
Vanderbilt University Medical Center
Simulation Multicenter Project $47,589

Karin Westlund-High
National Institute of Dental and Craniofacial Research
Scfv Antibody Therapy for Chronic Trigeminal Neuropathic Pain $189,625

Biochemistry & Molecular Biology

Natalie Adolphi
Research Triangle Institute
RTI Forensic Imaging Workshop and Documents $71,024

Meilian Liu
American Heart Association
Transcriptional Regulation of Thermogenic Program $64,226
National Institute of Diabetes and Digestive and Kidney Diseases
The Role of Adiponectin in Regulating Type 2 Innate Lymphoid Cells and Browning of Fat - Supplement $60,595

Mark McCormick
American Federation for Aging Research
Measurement of the Conservation in Mammalian Cells of the Effects of Lifespan-Extending TRNA Synthetase Inhibitors. $98,500

Summer Raines Hayek
University of San Diego
MDH Communities UNM - Specific Supplement $5,000

Vallabh Shah
National Institute of Diabetes and Digestive and Kidney Diseases
American Indian Chronic Renal Insufficiency Cohort Study - Continuation $680,520

National Institute of Diabetes and Digestive and Kidney Diseases
American Indian Chronic Renal Insufficiency Cohort Study - Specific Supplement $378,748

Patient-Centered Outcomes Research Institute
Home-Based Chronic Kidney Disease Care in Native Americans of New Mexico - A Disruptive Innovation - Specific Supplement $199,999

Patient-Centered Outcomes Research Institute
Home-Based Chronic Kidney Disease Care in Native Americans of New Mexico - A Disruptive Innovation - Continuation $165,966
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<th>Name</th>
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<td>Cynthia Blair</td>
<td>National Cancer Institute</td>
<td>Improving Physical Functioning in Older Cancer Survivors Through Light-Intensity Physical Activity</td>
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<td>Ursa Brown-Glaberman</td>
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<td>Linda Cook</td>
<td>National Cancer Institute</td>
<td>A Population-Based Study of Ketorolac and Ovarian Cancer Survival</td>
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<td>Zoneddy Dayao</td>
<td>New Mexico Department of Health</td>
<td>Development and Delivery of Cancer Survivorship Plans</td>
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<td>Yan Guo</td>
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<td>The Role of LMO2 in the Pathogenesis of T-Cell Leukemia</td>
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<td>Richard Harvey</td>
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<td>Integration of Gene Expression Patterns, Fusions, Mutations, Cytogenetics and Other Clinical Variables for Subtyping Leukemias and Targeting Therapies</td>
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<td>Miria Kano</td>
<td>University of Texas MD Anderson Cancer Center</td>
<td>Curriculum Development for SGM Cancer-MDACC</td>
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<td>Peng Mao</td>
<td>National Institute of Environmental Health Sciences</td>
<td>TC-NER in the Repair and Mutagenesis of DNA Alkylation Damage</td>
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<td>Dario Marchetti</td>
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<td>Mechanisms of Melanoma Brain Metastasis by CTCs Isolated From Patients’ Blood</td>
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<td>Functional Characterization of Brain-Colonizing Breast Cancer CTC Subsets</td>
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<td>Jean McDougall</td>
<td>Rutgers, The State University of New Jersey</td>
<td>Comparative Effectiveness of Interventions to Increase Guideline-Based Genetic Counseling in Ethnically and Geographically Diverse Cancer Survivors</td>
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<td>Shiraz Mishra</td>
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<td>G Protein-Coupled Estrogen Receptor and Breast Carcinogenesis</td>
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<td>Molecular Mechanisms and Applications of Novel ER/GPER-selective Ligands</td>
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Rita Serda
National Science Foundation
Pathogen Mimic Cancer Vaccines $50,000

Larry Sklar
Leidos, Inc
BASE Project/MGMT: NCI Experimental Therapeutics Chemical Biology Consortium $78,410

Alan Tomkinson
National Institute of General Medical Sciences
Cellular Functions of Eukaryotic DNA Ligases $369,502

National Institute of Environmental Health Sciences
Roles of Lig3 and XRCC1 Genes in Genome Stability $307,800

Lovelace Respiratory Research Institute
DNA Repair Capacity Assays for Lung Disease Risk Assessment $74,567

Lawrence Berkeley National Laboratory
Structural Cell Biology & Physiology of DNA Repair Machines Project - YR4 $66,600

Cosette Wheeler
Becton, Dickinson and Company
BDS-USHPVPC $5,000,000

Albuquerque Area Indian Health Board, Inc.
Characterizing Disparities and Elucidating Opportunities Across the Cervical Cancer Continuum Among Native American Women $75,750

Charles Wiggins
National Cancer Institute
Surveillance Epidemiology and End Results Program $2,522,771

National Cancer Institute
SEER Patterns of Care 2019 $63,171

New Mexico Department of Health
DOH BCC Surveillance & Cancer Survivorship Care Plans Project $14,934

National Cancer Institute
Dissemination of a Colorectal Cancer Screening Program Across American Indian Communities in Southern Plains & Southwest United States $1,000,000

Cheryl Willman
National Cancer Institute
University of New Mexico Cancer Center Support Grant $2,246,011

National Cancer Institute
COVID Development of Epitope-Targeted SARS-CoV-2 Vaccines $373,749

National Cancer Institute
CCSG: Administrative Supplement to Strengthen the Research, Training and Outreach Capacity of the Geographic Management of Cancer Health Disparities Program $250,000

National Cancer Institute
COVID-19: Administrative Supplement to Strengthen the Research, Training and Outreach Capacity of the Geographic Management of Cancer Health Disparities Program $250,000

National Cancer Institute
Oncology Research Information Exchange Network $115,000

National Cancer Institute
Children’s Hospital of Philadelphia 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-Ley (1732 Study) $115,708

National Cancer Institute
CCSG: Administrative Supplement to Strengthen NCI-Supported Community Outreach Capacity Through Community Health Educators of the National Outreach Network $115,000

National Cancer Institute
University of New Mexico Cancer Center Support Grant: Continuing Umbrella Research Experience $113,625

Cowboys for Cancer Research
Cowboys for Cancer Research $97,028

Brigham and Women’s Hospital
Biomarker, Imaging and Quality of Life Studies Funding Program $78,784

Oregon Health & Science University
SWOG Network Group Operations Center of the NCTN: S1318: a Phase 2 Study of Blinatumomab (NSC-765986) and POMP $54,173

Emrullah Yilmaz
New Mexico Cancer Care Alliance
Clinical Trial Agreement-Phase 2 $38,466

Cell Biology & Physiology

Amy Gardiner
National Institute on Alcohol Abuse and Alcoholism
The Role of Mir-150 in Regulating Angiogenesis During Prenatal Alcohol Exposure $179,906

Laura Gonzalez-Bosc
Department of the Navy
Biomarkers of Hypoxia Exposure $135,193

Helen Hathaway
National Cancer Institute
Is Tumor-Adjacent Histologically Normal Tissue Primed for Tumorigenesis? Continuation $313,008

Nikki Jernigan
National Heart, Lung, and Blood Institute
R01 Renewal Vascular Smooth Muscle Function in Pulmonary Hypertension - Continuation $378,750

National Heart, Lung, and Blood Institute
The Role of the Acid-Sensing Ion Channel 1 in the Systemic Vasculature - Continuation $23,883

National Heart, Lung, and Blood Institute
The Role of the Acid-Sensing Ion Channel 1 in the Systemic Vasculature - Non-Specific Supplement $294
Exhalix, LLC
Dynamic Breath Gas Sensor for Detection of Pulmonary Edema $33,000

Vijay Naik

Exhalix, LLC
Dynamic Breath Gas Sensor for Detection of Pulmonary Edema $33,000

Thomas Resta
National Institutes of Health
Minority Institutional Research Training Program (T32) - Continuation $204,358

Dental Medicine
Gary Cuttrell
HSRA/HIV-AIDS Bureau
Dental Partnership Program, HRSA Ryan White Part F - Continuation $225,128

New Mexico Department of Health
Basic Oral Health Services $106,334

New Mexico Department of Health
Basic Oral Health $83,259

Dermatology
Emily Altman
Principia Biopharma Inc.
PRN1008-012: A Phase 3 Randomized, Double-Blind, Placebo-Controlled, Multicenter Trial to Evaluate the Efficacy and Safety of Oral BTK Inhibitor PRN1008 in Moderate to Severe Pemphigus $275,490

Lilly USA, LLC
14V-MC-JAIR: A Multicenter, Randomized, Double-Blind, Placebo-Controlled Part 3 Study to Evaluate the Efficacy and Safety of Baricitinib in Adult Patients With Severe or Very Severe Alopecia Areata $200,000

Principia Biopharma Inc.
PRN1008-012: A Phase 3 Randomized, Double-Blind, Placebo-Controlled, Multicenter Trial to Evaluate the Efficacy and Safety of Oral BTK Inhibitor PRN1008 in Moderate to Severe Pemphigus - Non-Specific Supplement $450

John Durkin
Lilly USA, LLC
Clinical Study: Ixekizumab in the Treatment of Lichen Planus $211,492

ECHO Institute
Sanjeev Arora
Defense Health Agency
Telementoring Services Defense Health Agency $792,283

National Network of Public Health Institute
Safe Opioid Prescribing ECHO $750,000

Bristol Myers Squibb, Inc. Foundation
Leveraging the ECHO Model for International COVID-19 Response $500,000

Centers for Disease Control and Prevention
Building U.S. Public Health Service Clinical Opioid Response Capacity $490,000

Health Resources and Services Administration
COVID-19 Response $400,000

Health Resources and Services Administration
SC AETC End HIV Epidemic Specific Supplement $395,061

Gilead Sciences
Improving Hepatitis C Care in Rural and Underserved Appalachian Communities $300,000

New Mexico Department of Health
Hepatitis and HIV Clinical Consultant Project - Continuation $300,000

New Mexico Department of Health
Opioid Rapid Response Team $250,317

U.S. Department of Agriculture
First Responder ECHO Program for Rural EMS Providers $250,000

University of California, Davis
ECHO Support for Multinational Health Education Networks in Africa and Southeast Asia - Continuation $233,728

Northwest Portland Area Indian Health Board
Indian Health Service TeleECHO Clinic Support - Continuation $225,000

New Mexico Department of Corrections
N.M. Department of Corrections Hepatitis C $190,644

Health Resources and Services Administration
South Central AIDS Education and Training Center Program $183,763

JHPIEGO Corporation
JHPIEGO Healthcare Workforce - Supplementation $180,000

High Plains Regional Education Cooperative #3
ECHO for Education: Graduates and Teacher Pipeline $163,314

University of Maryland, Baltimore County
Project ECHO Immersion and Follow-Up Training in Nigeria $150,000

New Mexico Department of Health
N.M. Opioid Rapid Response Project $138,304

Armenia Ministry of Health
ECHO Partnership With the Global Fund for HCV-HIV Care in Armenia $134,802

University of Maryland
Project ECHO Immersion in Tanzania $128,725

Presbyterian Medical Services
MCO Depression Quality Improvement Pilot $65,000

Health Care Service Corporation
MCO Depression Quality Improvement Project $65,000

Western Sky Community Care
Western Sky MCO Depression ECHO $65,000

JHPIEGO Corporation
JHPIEGO Healthcare Workforce - Continuation $50,000

University of California, Davis
ECHO Support for Multinational Health Education Networks in Africa and Southeast Asia $40,146

New Mexico Department of Health
TB Border Health 2019 $40,000

New Mexico Corrections Department
Re-Entry ECHO Program: Supporting PEP Graduates As Peer Support Workers $34,740

Health Research Inc.
ECHO Partnership for Quality Improvement Innovations in HIV Care - Continuation $25,935

CDC Foundation

UNM HEALTH SCIENCES CENTER 2020 / CONTRACTS AND GRANTS
Prevent Cancer Foundation
AORTIC Conference $25,000

Four Seasons
Four Seasons Palliative Care Grant $12,500

University of British Columbia
Vancouver PEP Training $10,000

**Emergency Medicine**

**Danielle Albright**
New Mexico Crime Victims Reparation Commission
Coordination of Domestic Violence Death Review $140,000

New Mexico Crime Victims Reparation Commission
Sexual Assault & Persons With Disabilities $150,000

**Justin Baca**
Abbott Point of Care Inc.
CS-2016-0005 Clinical Evaluation of I-STAT Ctni Nxg Test to Aid in the Diagnosis of Myocardial Infarction $490,410

**Laura Banks**
New Mexico Transportation Department
Pedestrian Safety Initiative $300,000

New Mexico Department of Homeland Security & Emergency Management
NMDHSEM Preparedness Conference $82,320

New Mexico Department of Health Partners in Preparedness Conference $69,614

**Darren Braude**
Department of the Air Force
UNM Educational Service Agreement FY20 - Non-Specific Supplement $518,760

Department of the Air Force
UNM Educational Service Agreement FY20 - Non-Specific Supplement $495,480

City of Albuquerque
Medical Directorship - Continuation $382,593

Valencia County
Medical Directorship $137,232

New Mexico Public Safety Department
Professional Services TEMS $82,167

Sandoval County
Medical Directorship - Continuation $54,000

City of Albuquerque
Professional Services Agreement - Continuation $50,000

Department of the Air Force
UNM Educational Service Agreement FY20 - Non-Specific Supplement $43,200

City of Rio Rancho
Medical Director Services - Continuation $37,200

Bernalillo County
Medical Directorship - Continuation $14,000

K&I Field Services
Medical Direction and Care - Continuation $12,500

City of Rio Rancho
Professional Services - Continuation $10,500

City of Rio Rancho
Professional Services $7,500

City of Rio Rancho
Professional Services - Continuation $5,000

U.S. National Park Service
Zion National Park ALS Refresher $4,481

Village of Cuba
Medical Directorship - Continuation $4,100

Sandia Crest Marathon
Medical Directorship - Continuation $1,550

**Cameron Crandall**
McLean Hospital
CTN-0099: Emergency Department-Initiated Buprenorphine Validation Network Trial $107,918

**Joy Crook**
New Mexico Department of Health
FY20 Statewide EMS $50,000

**Douglas Dixon**
Taos County
Medical Directorship - Continuation $36,000

Taos County
Medical Directorship - Continuation $36,000

Valencia Regional Emergency Communication Center
Professional Services - Continuation $9,000

**Jon Kenneth Femling**
Light AI, Inc.
Pilot Study of Strepic Device for the Diagnosis of Group a Streptococcal Pharyngitis - Specific Supplement $196,480

Olive View Medical Center-UCLA EMERGEncy Iden: Emergency Department Sentinel Network for Surveillance of Emerging Infections - Continuation $7,000

**Andrew Harrell**
City of Albuquerque
Medical Director Services $55,760

New Mexico Department of Public Safety/N.M. State Police
Medical Direction $50,000

Bernalillo County Sheriff’s Department
Professional Services Medical Director and SWAT Training - Continuation $20,000

**Jonathan Marino**
Kindred Hospital (Transitional Hospital Corp. of NM)
Medical Director Services - Continuation $25,000

**Aaron Reilly**
High Altitude Athletics Club
Medical Director $2,000

Trans-Pecos Ultra
Medical Directorship - Continuation $2,000

**Robert Sapen**
HRSA/Maternal and Child Health Bureau
N.M. EMS for Children Program $130,000

Nationwide Children’s Hospital
C-Spine $40,200
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Osman Dokmeci
AbbVie
M18-891: A Phase 3 Randomized, Placebo-Controlled, Double-Blind Study to Evaluate Upadacitinib in Adolescent and Adult Subjects With Moderate to Severe Atopic Dermatitis - Specific Supplement $434,128

Christos Argyropoulos
DiaSoadis Clinic, Inc.
CE-1T-IS COMPLEX $673,849

Soraya Arzhan
DiaSoadis Clinic, Inc.
Implications of Hypernatremia in Hospitalized Patients Without and With Chronic Kidney Disease $329,458

Michelle Harkins
Cystic Fibrosis Foundation
Cystic Fibrosis Care Center Program 2019-20 $62,650

Christophe Lambert
National Institutes of Health
Deriving High-Quality Evidence From National Healthcare Databases to Improve Suicidality Detection and Treatment Outcomes in PTSD and TBI $776,198

A. Robb McLean
The Bell Group, Inc.
Professional Services: UNM Center for Life - Continuation $25,000

Lana Melendres-Groves
Complexa
PRiME Plus CXA-10-2302 $114,944

Julie In
National Institute of Diabetes and Digestive and Kidney Diseases
Human Enteroids As a Model of Host-EHEC Interactions - Y6 $152,388

Denece Kesler
HRSA/Bureau of Health Workforce
Preventive Medicine Residency Program $399,984
Liquidia Technologies
Protocol LT-302: A Global Open-Label Extension Study for Participants in LIQ861 Trials to Evaluate the Long-Term Safety of Inhaled LIQ861 (Treprostinil) in Pulmonary Arterial Hypertension (WHO Group 1) Patients $60,160

United Therapeutics Corporation
ADAPT TDE-PH-401 $52,800

Tudor Oprea
National Institutes of Health
Knowledge Management Center for Illuminating the Druggable Genome - Continuation $1,000,000

The Jackson Laboratory
Illuminating the Druggable Genome by Knowledge Graphs $118,604

East Carolina University, Brody School of Medicine
Ligand Specificity in Human Glucose Transporters GLUT1-5 and GLUT9 - Y2 - Amendment 1 $67,899

Kimberly Page
National Institute on Drug Abuse
New Mexico Clinical Trials Node: Clinical Research and Practice to Address Substance Use in Diverse, Rural and Underserved Populations - Y2 $2,679,320

The RAND Corporation
Improving Access and Treatment for Co-Occurring Opioid Use Disorders and Mental Illness Disorders $627,305

Upstate Affiliate Organization
Patient-Centered Models of Hepatitis C Care for People Who Inject Drugs - Continuation Y5 $429,986

Gulshan Parasher
AbbVie
M14-234 $1,482,617

AbbVie
M14-675: A Multicenter Randomized, Double-Blind, Placebo-Controlled Induction Study to Evaluate the Efficacy and Safety of Upadacitinib (ABT-494) in Subjects With Moderately to Severely Active Ulcerative Colitis $1,243,418

AbbVie
M14-533: A Phase 3 Multicenter, Long-Term Extension Study to Evaluate the Safety and Efficacy of Upadacitinib (ABT-494) in Subjects With Ulcerative Colitis $880,344

AbbVie
M15-722: Efficacy and Safety of ABBV-323 in Subjects With Moderate to Severe Ulcerative Colitis Who Failed Prior Therapy $370,734

Douglas Perkins
National Institute of Allergy and Infectious Diseases
Defining the Inflammation and Immunity Transcriptome in Severe Malarial Anemia for Immunotherapeutic Discovery - Phase 3 - Continuation Y27 $263,486

John E. Fogarty International Center for Advanced Study in the Health Sciences
Training and Research on Severe Malarial Anemia - Y18 $267,824

Harvard School of Public Health
Fogarty Global Health Training Fellowship Program - Y3 $24,920

David Schade
George Washington University
Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study - Y8 $650,876

National Institute of Diabetes and Digestive and Kidney Diseases
Diabetes Prevention Program - Phase 3 - Continuation Y2 $263,486

Case Western Reserve University
Epidemiology of Diabetes Intervention and Complications $126,549

George Washington University
GRADE Sub-Study: Emotional Distress in a Comparative Effectiveness Trial of Diabetes Treatments $13,912

Case Western Reserve University
Effects of Biomedical Risk Factors on Neuro-Cognition Using MRI: Long Term Follow-up of the Diabetes Control & Complications Trial/Epidemiology of Diabetes Interventions & Complications Study Phase IV - Specific Supplement $1,670

University of South Florida
Type 1 Diabetes Trialnet - Continuation FY19-20 $390

Melissa Schiff
New Mexico Department of Health
CDC Maternal Mortality Review Committee Grant - Continuation $85,102

New Mexico Department of Health
CDC Maternal Mortality Review Committee Grant $30,256

Rahul Shekhar
Karyopharm Therapeutics Inc.
COVID: XPORT-CoV-1001 $192,000

Mark Sheldon
U.S. Department of Veterans Affairs
Interventional Cardiology Services at the VA - Continuation $430,857

Rutgers, The State University of New Jersey
Myocardial Ischemia and Transfusion - CCC - Continuation Y3 $42,000

Manoocher Soleimani
U.S. Department of Veterans Affairs
IPA - Barone $38,431

U.S. Department of Veterans Affairs
IPA - Zahedi $38,431
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Nikolaos Mellios  
National Institutes of Health  
Role of Psychiatric Disease-Associated Circular RNAs in Neuronal Function and Cognition - Continuation  
Johns Hopkins University  
Placental-Mediated Mechanisms of Perinatal Brain Injury - Continuation  
Johns Hopkins University  
Placental-Mediated Mechanisms of Perinatal Brain Injury - Continuation  

Erin Milligan  
National Institute on Alcohol Abuse and Alcoholism  
Prenatal Alcohol Exposure Potentiates Pain Via Lifelong Spinal-Immune Changes - Continuation  
Arizona State University  
Role of Circhomer1 in Synaptic Plasticity and Cocaine-Seeking Behavior  
Georgia State University  
Mining the Genome-Wide Scan: Genetic Profiles of Structural Loss in Schizophrenia  
Georgia State University  
Mining the Genome-Wide Scan: Genetic Profiles of Structural Loss in Schizophrenia - Continuation  

Jessica Dawn Richardson  
New Mexico Governor's Commission on Disability  
Health Extension Rural Offices  

Daniel Savage  
National Institute on Alcohol Abuse and Alcoholism  
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Intervention Competing Renewal  
National Institute on Alcohol Abuse and Alcoholism  
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Intervention Competing Renewal - Continuation  
Bill Shuttleworth  
National Institute of General Medical Sciences  
New Mexico State University  
New Mexico IDEa Networks of Biomedical Research Excellence  
New Mexico State University  
New Mexico IDEa Networks of Biomedical Research Excellence - UNM HSC-Continuation  
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New Mexico IDEa Networks of Biomedical Research Excellence - Mishra Specific Supplement  
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New Mexico IDEa Networks of Biomedical Research Excellence ACORA_Bouchonville - Continuation  
New Mexico State University  
New Mexico IDEa Networks of Biomedical Research Excellence - Supplement  
National Institute of Neurological Disorders and Stroke  
Spreading Depolarizations and Neuronal Vulnerability  

Jason Weick  
Clemson University  
RII Track-2 FEC: The Creation of Next-Generation Tools for Neurosciences  
National Institute of Neurological Disorders and Stroke  
Directing Corticospinal Motor Neurons for Cell Replacement in Stroke - Continuation  

Tou Yia Vue  
National Institute of Neurological Disorders and Stroke  
Underlying Molecular Mechanisms of Gliogenesis and Gliomagenesis in the CNS - Continuation  

Neurosciences  
Denis Bragin  
National Institutes of Health  
Brain Injury Treatment by Modulation of Hemodynamics With Blood-Soluble Drag-Reducing Molecules  
Andrew Carlson  
Los Alamos National Laboratory  
LANL Collaboration  
Polyganics BV  
ENCASE II: Randomized, Two-Arm, Multicenter Study to Evaluate the Safety and Effectiveness of Dura Sealant Patch in Reducing CSF Leakage Following Elective Cranial Surgery  
IRRAS AB  
Professional Service Agreement  

Muhammad Chohan  
NX Development Corp  
5-Aminolevulinic Acid (5-ALA) to Enhance Visualization of Malignant Tumor in Patients With Newly Diagnosed or Recurrent Malignant Gliomas - Non-Specific Supplement  
William Rivers  
Lovelace UNM Rehabilitation Services  
Pain Management Program Director  

A. Robb McLean  
Holy Cross of Taos  
Hospital Service Agreement (ACCESS) - Continuation  
Lea Regional Medical Center  
Settlement Agreement  

Paradigm-Catastrophic Care Management  
Medical Directorship  

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| Peter Shin                  | Presbyterian Healthcare Services        | Professional Services/Consultations -  
Continuation                                                                            | $402,000     |
| Huy Tran                    | University of Arizona                  | Brain Oxygen Optimization in Severe Traumatic Brain Injury – Phase 3 (BOOST-3)       | $102,381     |
| Nicholas Andrews            | AbbVie                                  | Protocol #m16-837: Phase 2 Multicenter, Double-Blind (Sponsor-Unblinded), Randomized, Placebo-Controlled Study of the Safety and Efficacy of Elagolix in Women With Polycystic Ovary Syndrome | $776,820     |
| Conrad Chao                 | New Mexico Department of Health         | High-Risk Prenatal Care                                                            | $82,460      |
| Gena Dunivan                | Viveve, Inc                            | Protocol VI-15-01: VIVEVE II: Viveve Geneveve Treatment of the Vaginal Introitus to Evaluate Safety and Efficacy -  
Continuation                                           | $6,400       |
| Eve Espey                   | First Choice Community Healthcare      | Midwifery Services                                                                  | $89,244      |
| Lisa Hofler                 | Rad                                     | RAD CRH Equipment                                                                    | $160,480     |
| Yuko Komesu                 | Cook MyoSite                           | Protocol 15-06: CELLEBRATE: An Adaptive Two-Stage, Double-Blind, Stratified, Randomized, Placebo-Controlled Trial Comparing the Safety and Efficacy of AMDC-USR With Placebo in Female Subjects With Stress Urinary Incontinence -  
Non-Specific Supplement                                     | $108,334     |
| Yuko Komesu                 | Eunice Kennedy Shriver National Institute of Child Health and Human Development Innovations in Treatments for Pelvic Floor Disorders: PFDN Center Grant -  
Continuation                                                 | $18,180      |
| Felicia Mancini             | Michigan State University               | ROSES - The ROSE Sustainment Study                                                  | $2,160       |
| Sarah Martinez              | New Mexico Department of Health         | Provide Risk-Appropriate Prenatal Medical Services to Medically Indigent Women In New Mexico With Obstetrical and/or Medical Complications -  
Continuation                                              | $54,960      |
| Lauren Decker               | New Mexico Department of Health         | FY20 Mass Fatality Planning                                                          | $39,879      |
| Lauren Dvosrck              | New Mexico Department of Public Safety  | 2019 Coverdell Project ECHO (2020 Funding)                                           | $118,486     |
| Heather Jarrell             | Bureau of Indian Affairs                | Autopsy Services -  
Continuation                                                                            | $179,000     |
| Marybeth Barkocy            | Move Together Inc.                     | Move Together                                                                       | $2,000       |
| Thomas Decoster             | Arthrex, Inc.                           | Arthrex Trauma Fellowship                                                            | $5,000       |

**Obstetrics & Gynecology**

**Office of the Medical Investigator**

**Orthopaedics & Rehabilitation**
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<td>Margaret Alba</td>
<td>American Society for Clinical Pathology</td>
<td>Real-Time Interactive Lab Experience to Increase Emotional Intelligence and Problem-Solving Skills in Medical Lab Science Students</td>
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<td>TriCore Reference Laboratories</td>
<td>Task Order # 2 Ventana/Roche CINtec Plus Slide Reads</td>
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<td>Larry Sklar</td>
<td>University of Miami</td>
<td>Illuminating the Druggable Genome Resource Dissemination and Outreach Center - Continuation</td>
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<td>A High-Throughput Chemical Screen to Identify Inhibitors of the Azole Transporter Cdr1p in Candida - Continuation</td>
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<td>Boston Children’s Hospital</td>
<td>Compounds That Block a Novel Candida Albicans Target</td>
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<td>Evaluation of Novel Probes - Supplement Continuation</td>
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<td>Purposing Pharmacological Agents for Inherited Mast Cell Disorders in the Gut</td>
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<td>National Institute of General Medical Sciences</td>
<td>Academic Science Education and Research Training</td>
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National Cancer Institute
The Role of Rac1 in Ovarian Cancer Metastasis and Niche Interaction $34,494

Jain Zhou
TriCore Reference Laboratories
Task Order #4 Hamamatsu Photonics
K.K._Hamamatsu Study $54,800

Pediatrics

Shirley Abraham
Oregon Health & Science University
Community Counts - Continuation $26,407

American Thrombosis and Hemostasis Network
ATHN Data Quality Counts $1,000

Novo Nordisk, Inc.
NN7415-4322: A Prospective Multi-National, Non-Interventional Study in Haemophilia A and B Patients With or Without Inhibitors Treated According to Routine Clinical Treatment Practice - Non-Specific Supplement $961

Tanya Baker-McCue
New Mexico Division of Vocational Rehabilitation
DVR School to Work Project $400,000

Anthony Cahill
American Association on Health & Disability
Project Accessibility USA: Health Promotion for Women With Disabilities $20,000

Glenda Canaca
New Mexico Human Services Department
Social Marketing - Continuation $465,150

Loretta Cordova De Ortega
New Mexico Department of Health
CMS Outreach $1,520,513

Comagine Health
In-Home Assessments for Medically Fragile Waiver W/BAA - Continuation $102,125

Ben Archer Health Center, Inc.
Professional Services - Continuation $25,000

Northern Navajo Medical Center
IHS Service Contract - Genetics $4,800

Rio Rancho Public Schools
PSA - Rio Rancho Public Schools $3,000

Theresa Cruz
New Mexico Human Services Department
SNAP-Ed Evaluation $259,281

New Mexico Department of Health
Youth Risk and Resiliency Survey $190,000

Thornburg Foundation
Sustaining Home Visiting Referrals $85,000

Presbyterian Healthcare Services
REACH $72,000

Albuquerque Public Schools
APS 1807 $69,000

Albuquerque Public Schools
APS 1807 $45,471

New Mexico Coalition of Sexual Assault Programs, Inc.
CAC Needs Assessment $35,000

National Dance Institute - N.M. ATP Evaluation $15,500

Presbyterian Healthcare Services
Mobile Food Market FY20 $10,000

New Mexico Public Education Department
PED Evaluation - Specific Supplement $10,000

Sally Davis
Centers for Disease Control and Prevention
PRC Research $440,253

New Mexico Human Services Department
CHILE Plus $335,251

Centers for Disease Control and Prevention
Healthy Places - Healthy People $309,483

New Mexico Department of Health
Implementing Evidence-Based Recommendations in Community Projects - Continuation $41,940

New Mexico Department of Health
Implementing Evidence-Based Recommendations in Community Projects $34,940

Walter Dehority
Synesos Health
Pfizer Peds CAZ-AVI Nosocomial Pneumonia Study #c3591025 $24,814

Medpace Inc
MDA 2013-0039: A Phase 3 Multi-Center Study to Evaluate the Efficacy and Safety of Mino-lok Therapy in Combination With Systemic Antibiotics in the Treatment of Catheter-Related or Central Line-Associated Bloodstream Infection - Specific Supplement $12,800

Infectious Disease Society of America
G.E.R.M Mentorship Award $4,000

Medpace Inc
MDA 2013-0039: A Phase 3 Multi-Center Study to Evaluate the Efficacy and Safety of Mino-lok Therapy in Combination With Systemic Antibiotics in the Treatment of Catheter-Related or Central Line-Associated Bloodstream Infection $1,500

Sara Del Campo de Gonzalez
Harvard Graduate School of Education
HERO II $69,908

Harvard Graduate School of Education
Health’s Early Roots & Origins - Continuation $28,952

Darrell Dinwiddie
National Institutes of Health
The Effect of 17q21 Locus SNPs on Targeted Host Immune Responses in Children With Rhinovirus-Induced Exacerbations of Asthma $240,794

Timothy Dionne
HRSA/Bureau of Health Professions
HRSA Scholarship for Disadvantaged Students $650,000

Sandra Heimerl
HRSA/Maternal and Child Health Bureau
NM LEND Program $699,000

Association of University Centers on Disabilities
Focused Assistance to Support Training $8,000

New Mexico Developmental Disabilities Planning Council
NM LEND Interdisciplinary Advocacy Workshop $2,500

Andrew Hsi
New Mexico Department of Health
DDSD FIT (FOCUS) $116,000

Alberta Kong
New Mexico Department of Health
School-Based Health Center Services $1,797,200

Oregon Research Behavioral Intervention Strategies, dba Influents Innovations
A Mobile/Web-Based Training Curriculum for Disseminating Best Practices for the Care of Newborns With Neonatal Opioid Withdrawal Syndrome $84,077

Klein Buendel
Web App Technology for Boys and Parents: Improving HPV Vaccine Uptake - Continuation $30,000

Albuquerque-Bernalillo County Community School Partnership
Professional Services $27,900

Brindle Foundation
UNM Envision/Optimizing Care for Neonatal Opioid Withdrawal Syndrome in Rural New Mexico $25,000
John Kuttesch
Hyundai Motor America (Hope on Wheels)
2019 Hyundai Hope on Wheels Impact Grant $100,000

Children’s Hospital of Philadelphia
Health Effects After Anthracycline and Radiation Therapy - Dexrazoxane and Prevention of Anthracycline-Related Cardiomyopathy (ALTET1C2 Study) (NIH R01) - Specific Supplement Amendment 1 $90,900

Children’s Hospital of Philadelphia
Protocol: ANBL1531 Phase 3 Clinical Study (Industry) $89,960

Children’s Hospital of Philadelphia
Clinical Trial - Non-Industry - Continuation $75,000

Children’s Hospital of Philadelphia
EVERYCHILD (APEC4B1) PCR - COG Foundation - Continuation $62,464

Children’s Hospital of Philadelphia
Clinical Study Protocol AALL0434 - Novartis Pharmaceuticals Corp. (Industry) - Continuation $58,880

Children’s Hospital of Philadelphia
COG NCTN Network Group Operations - Work Load Intensity (NCTN Grant 2U10CA180886) $16,000

Children’s Hospital of Philadelphia
COG NCTN Network Group Operations - Per Case Reimbursement (2U10CA180886) $16,000

Children’s Hospital of Philadelphia
Protocol: ADVL1322/Novartis: Clinical Trial Agreement $11,500

Children’s Hospital of Philadelphia
Logitudinal, Multimodal Assessment of Neuro (HR-ALL) AL TE07C1 (Nonindustry R01CA212190) $7,574

Jean Lowe
University of California, San Francisco
High-Dose Erythropoietin for Asphyxia and Encephalopathy CCC Project - Non-Specific Supplement $8,574

University of California, San Francisco
High-Dose Erythropoietin for Asphyxia and Encephalopathy CCC Project - Non-Specific Supplement $1,142

Peggy MacLean
Early Childhood Education and Care Department
Level 2 NICU Hatch $1,596,976
New Mexico Children, Youth & Families Department
Level 2 NICU $498,488

Michael Marble
New Mexico Department of Health
CMS Newborn Screening $349,416

Jane McGrath
New Mexico Department of Health
Long-Acting Reversible Contraception Training and Stocking Project - Specific Supplement $950,000
New Mexico Department of Health
Long-Acting Reversible Contraception Training and Stocking Project - Specific Supplement $700,000
New Mexico Department of Health
Long-Acting Reversible Contraception Training and Stocking Project - Specific Supplement $300,000
New Mexico Department of Health
Long-Acting Reversible Contraception Training and Stocking Project - Specific Supplement $60,000

Shiraz Mishra
National Institutes of Health
Enhancing Prevention Pathways Towards Tribal Colorectal Health - Continuation $1

Marcia Moriarta
New Mexico Department of Health
DOH Autism Programs $3,431,040
New Mexico Department of Health
DOH Autism Program $3,431,040
New Mexico Department of Health
Medically Fragile Waiver $2,940,444
New Mexico Human Services Department
Improving Quality (75/25 & 50/50 Medicaid Match) $2,000,000
New Mexico Department of Health
Early Childhood Evaluation Program SGF/Part B/part C $1,232,000
New Mexico Department of Health
DDSD Partners for Employment $562,800
New Mexico Department of Health
DDSD Partners for Employment $562,800

New Mexico Department of Health
Early Childhood Network $492,400
New Mexico Department of Health
Early Childhood Network $485,000
Falling Colors Corporation
Early Childhood Infrastructure Development $480,000
New Mexico Department of Health
DDSD Statewide Training Database $185,480
New Mexico Department of Health
CMS Medical Home Portal Project $150,000
Nurse-Family Partnership
Nurse-Family Partnership Incentive $132,696
Falling Colors Corporation
Infant Mental Health Team Community of Practice $125,000
New Mexico Department of Health
DDSD Statewide Training Database $122,696
New Mexico Department of Health
Project SET (Specialized Early Training) $106,191
New Mexico Department of Health
DDSD Informed Choice $100,000
New Mexico Department of Health
DDSD Informed Choice $100,000
New Mexico Department of Health
Medically Fragile Case Management $86,000
New Mexico Department of Health
Medically Fragile Program $86,000
New Mexico Department of Health
New Mexico SAFE Program $83,437
New Mexico Department of Health
New Mexico Safe Program $83,437
Falling Colors Corporation
Parent-Infant Psychotherapy $75,000
New Mexico Department of Health
Children’s Medical Services Evaluation Project $65,000
New Mexico Children, Youth & Families Department
ACA - Parents As Teachers Valencia County $60,000
New Mexico Department of Health
DDSD PFE Transition Project $50,000
Falling Colors Corporation
IMH Foster Parent $50,000
New Mexico Department of Health
DDSD Partners for Employment Transition Project $50,000
Early Childhood Education and Care Department
CDD Preschool Development Grant - Specific Supplement $30,000

Brindle Foundation
Brindle - Clinical Consultation for Rural Providers $25,000

Administration for Community Living
University Center for Excellence in Developmental Disabilities $23,000

New Mexico Department of Health
DDSD Statewide Training Database $2,849

Martha Muller
Merck, Sharp & Dohme, Inc.
Merck MK1439-066 & MK8591A-028 $500

Dawn Novak
New Mexico Department of Health
Developmental Care Continuity Program - Fee for Service - Continuation $179,400

New Mexico Department of Health
Developmental Care Continuity Program - Fee for Service $147,400

New Mexico Department of Health
Developmental Care Continuity Program - Cost $32,000

Julia Oppenheimer
Association of University Centers on Disabilities
Children's Mental Health Champions $6,000

Patricia Osbourn
New Mexico Public Education Department
PED Prek Consultation $947,685

New Mexico Public Education Department
PED Prek Consultation $440,990

New Mexico Public Education Department
PED Contract - SET & DB $429,950

Region IX Education Cooperative
Region IX Education Cooperative $215,153

U.S. Department of Education
Project for New Mexico Children Who Are Deaf-Blind $107,912

Socorro Consolidated Schools
Socorro School Consultations $14,850

Silver Consolidated Schools
Silver Consolidated Schools Consultations FBA $14,586

Belen Consolidated Schools
Belen Consultations - Specific Supplement $13,420

Cuba Independent Schools
Cuba Consultations $10,175

Silver Consolidated Schools
RBT Supervision - Continuation FY20 $9,545

Estancia Municipal Schools
Estancia Consultations $5,775

 Moriarty-Edgewood School District
Moriarty-Edgewood School District $5,765

Hengameh Raissy
Savara Pharmaceutical
Phase 3 Randomized, Double-Blind, Placebo-Controlled Study of Aerovanc for the Treatment of Persistent Methicillin-Resistant Staphylococcus Aureus Lung Infection in Cystic Fibrosis Patients - Continuation $74,999

Duke University
Pharmacokinetics and Safety of Anesthetics and Analgesics in Children - Continuation $48,480

Vertex Pharmaceuticals Incorporated
A Phase 1/2 Study of VX-445 in Healthy Subjects and Subjects With Cystic Fibrosis - Continuation $32,000

Vertex Pharmaceuticals Incorporated
A Phase 1/2 Study of VX-445 in Healthy Subjects and Subjects With Cystic Fibrosis - Non-Specific Supplement $11,947

Savara Pharmaceutical
Phase 3 Randomized, Double-Blind, Placebo-Controlled Study of Aerovanc for the Treatment of Persistent Methicillin-Resistant Staphylococcus Aureus Lung Infection in Cystic Fibrosis Patients - Non-Specific Supplement $6,695

Vertex Pharmaceuticals Incorporated
Phase 3 Clinical Trial - Non-Specific Supplement $126

Mary Ramos
County of Bernalillo
Professional Service Agreement - Continuation $200,000

Pacific Institute for Research & Evaluation
Implementing School Nursing Strategies to Reduce LGBTI Adolescent Suicide - Continuation $51,809

Pacific Institute for Research & Evaluation
Implementing School Nursing Strategies to Reduce LGBTI Adolescent Suicide - Continuation $43,681

Health Resources and Services Administration
Continuation $40,826

Albuquerque Public Schools
Marketing Material for School-Based Health Centers $15,000

A. Robb McLean
Albuquerque-Bernalillo County Community School Partnership
Professional Services - Continuation $40,000

Leslie Strickler
New Mexico Crime Victims Reparation Commission
CVRC - SAS State Grant $352,600

New Mexico Crime Victims Reparation Commission
ACCESS - VOCA Federal Grant $72,064

U.S. Department of Justice
Expert Witness Contract - Lewis $6,898

New Mexico Coalition of Sexual Assault Programs, Inc.
NMCSAP - Educational Delivery $650

Monique Vallabhan
Health Resources and Services Administration
Telehealth Network Grant $355,554

Jennifer Vickers
New Mexico Department of Health
CORE $1,501,100

New Mexico Department of Health
CORE $1,501,100
New Mexico Department of Health
Continuum of Care Main $878,800
New Mexico Department of Health
Continuum of Care $858,800
New Mexico Department of Health
Mortality Review Project $114,800
New Mexico Department of Health
Mortality Review - Supplement $62,136
New Mexico Department of Health
Mortality Review $52,750

Kristi Watterberg
Eunice Kennedy Shriver National Institute of Child Health and Human Development
NICHD Cooperative Multicenter Neonatal Network $269,762

Carla Sue Wilhite
New Mexico State University
New Mexico Agrability - Assistive Technology Program for Farmers With Disabilities $12,141
New Mexico State University
New Mexico Agrability - Assistive Technology Program for Farmers With Disabilities - Specific Supplement $9,311
New Mexico State University
New Mexico Agrability - Assistive Technology Program for Farmers With Disabilities $5,000

Craig Wong
Children’s Mercy Hospital
CKiD IV $16,991
Nationwide Children’s Hospital
Cure Glomerulonephropathy - Continuation $15,500

Children’s Mercy Hospital
CKiD Steering Committee - Non-Specific Supplement $2,659
Children’s Mercy Hospital
CKiD IV - Non-Specific Supplement $1,410
Children’s Mercy Hospital
CKiD Steering Committee - Non-Specific Supplement $910

Elizabeth Yakes Jimenez
W.K. Kellogg Foundation
The THRIVE Project $175,000
New Mexico Public Education Department
Improving Health and Academic Success Grant $21,300
New Mexico Children, Youth & Families Department
Plans of Care Webinars $10,206
Gretchen Swanson Center for Nutrition
Develop and Test a Brief Supplemental Food Security Module That Aims to Add Utility When Used Alongside the USDA Household Food Security Survey Module $5,361

Psychiatry & Behavioral Sciences

Christopher Abbott
National Institutes of Health
ECT Current Amplitude and Medial Temporal Lobe Engagement - Continuation $501,545
Georgia State University
Data-Driven Approaches to Identify Biomarkers From Multimodal Imaging Big Data $21,807

Deborah Altschul
San Felipe Pueblo
San Felipe KEYWAH III $735,500

New Mexico Behavioral Health Collaborative
Emergency Response to COVID-19 $150,000

Falling Colors Corporation
Multi-Systemic Therapy Data Reporting Initiative - FY20 $31,400

New Mexico State University
Adolescent Substance Use Reduction Effort - Treatment Implementation $15,000

Caroline Bonham
Indian Health Service
IHS Tele-Behavioral Health, Training & Consultation $300,000

Indian Health Service
IHS Tele-Behavioral Health, Training & Consultation - Non-Specific Supplement $298,637

Albuquerque Area Indian Health Service
IHS-AAO Substance Abuse & Mental Health Clinical & Community Education, Training & Outreach Services $99,000

New Mexico Human Services Department
HNL Supplement (CBHTIR II) $95,300

Indian Health Service
IHS Tele-Behavioral Health, Training & Consultation - Project ECHO Supplement $27,158

Juan Bustillo
Janssen Scientific Affairs, LLC
Clinical Trial Agreement - Phase 3 - Non-Specific Supplement $57,464
Otsuka Pharmaceutical Development & Commercialization, Inc.
Otsuka-Bustillo $984

Jennifer Crawford
Falling Colors Corporation
Adolescent Substance Use Reduction Effort - Treatment Implementation (with CYFD) 2020 $74,088

Annette Crisanti
National Institute of Mental Health
Feasibility of an Early Detection Program for Early Psychosis on a College Campus (Reducing DUP) $225,418

National Institute of Mental Health
Feasibility of an Early Detection Program for Early Psychosis on a College Campus (Reducing DUP) - Year 2 $225,196

City of Albuquerque
APD Crisis Intervention Team ECHO Program Coordinator $75,000
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<td>Massachusetts General Hospital</td>
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<td>Facilitating the Implementation of Interim Methadone to Increase Treatment Access: A Multi-Site Implementation Trial</td>
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<td>ECHO-F Model to Expand Medication-Assisted Treatment in Rural Primary Care</td>
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Anil Shetty  
New Mexico Department of Health  
Cleft Palate Clinic Services  
$8,400

Joaquin Tosi  
Genentech, Inc.  
GR40550: Phase 3 Study of the Port Delivery System With Ranibizumab in Patients With Diabetic Macular Edema  
$3,447,720

UNM HOSPITAL

Eve Espey  
New Mexico Department of Health  
Provide Prenatal and Postpartum Clinical, Health Education - Continuation  
$149,968

New Mexico Department of Health  
Provide Prenatal and Postpartum Clinical, Health Education - Continuation  
$320

Wendy Hine  
New Mexico Department of Health  
Breast and Cervical Cancer Early Detection Program - Continuation  
$85,000

Jill Klar  
Bernalillo County  
Adverse Childhood Experiences - Continuation  
$614,804

Bernalillo County  
CONNECT (OCCS) - Continuation  
$347,287

New Mexico Department of Health  
Breast and Cervical Cancer Early Detection Program - Continuation  
$85,000

Alberta Kong  
Albuquerque-Bernalillo County Community School Partnership  
Professional Services  
$223,522

Sarah Martinez  
New Mexico Department of Health  
Provide Prenatal and Postpartum Clinical Health Education - Continuation  
$180,000

Rodney McNease  
Bernalillo County  
CONNECT (OCCS)  
$1,389,148

Bernalillo County  
CONNECT (OCCS) - Continuation  
$1,148,584

City of Albuquerque  
Assertive Community Treatment Program - Continuation  
$713,330

Robert Perry  
New Mexico Department of Health  
Emergency Preparedness  
$54,267

Suzanne Popejoy  
City of Albuquerque  
Scope of Services-Gang Prevention - Continuation  
$239,378

City of Albuquerque  
Early Intervention for Children Services - Continuation  
$215,632

A. Robb McLean  
New Mexico Department of Health  
Provide Services for Hospital Preparedness - Continuation  
$23,448

Mauricio Tohen  
County of Bernalillo  
Provide Housing to Homeless in Criminal Justice System - Continuation  
$498,726

UNM MEDICAL GROUP, INC.

David Rakel  
Bernalillo County Juvenile Detention Center  
Professional Services - Continuation  
$140,973
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Our research programs are focused on critical health problems affecting New Mexicans and bridging the gap to more rapidly deliver discoveries to the clinical setting. Often, the benefits of our innovations and discoveries are recognized and shared beyond our state borders to institutions in other states and in countries around the world.

Your contributions will help us meet new challenges and seek solutions to help people lead longer and healthier lives. Donations are accepted through the UNM Foundation, the university-based nonprofit that can accommodate almost any giving interest. Options include support of health research in general, work in a particular disease category, one of our signature programs for scholarships or facilities, or a legacy gift customized to fit the wishes of you as an individual, your family or your company.

For more information on how you can contribute to the UNM Health Sciences Center’s discoveries and innovations of the future, contact Bill Uher, Vice President of Development, UNM Foundation, at bill.uher@unmfund.org or 505-277-4078.

About the Foundation

The University’s Board of Regents established the UNM Foundation in 1979 as a nonprofit corporation. Ten years later, the Regents delegated the responsibility of overseeing University of New Mexico assets and investments to the UNM Foundation Investment Committee. These assets total more than $400 million today.

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UNM HEALTH SCIENCES CENTER

Discovery
Research Annual Report 2020

TURNING RESEARCH INTO CURES