2019

University of New Mexico Health Sciences Center Discovery Research Annual Report 2019

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UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER

Discovery
Research Annual Report 2019

Grand Challenges
Building Cross-Campus Research Collaborations

TURNING RESEARCH INTO CURES
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.
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When it comes to research, our name pretty much says it all – the UNM Health Sciences Center. Biomedical research is the backbone of everything else we do, from providing state-of-the-art patient care to educating the next generation of New Mexico health care practitioners.

I'm proud to report that in the past year our researchers have once again demonstrated their focus, their passion and their truly amazing talent for innovation in multiple areas.

When President Garnett S. Stokes issued her Grand Challenges to advance signature research across the university at the end of last year, our faculty stepped forward with a host of creative ideas. HSC researchers successfully submitted two proposals – to promote successful aging and address substance abuse – that stand a strong chance of making a positive impact in our community.

Our extramural research funding matches almost exactly where we were last year, despite an overall decline in federal research money. This is thanks in large part to the skillful stewardship of our research enterprise.

Laboratory space is a premium on our campus, so one bright spot is the recent reinstatement of construction funding from the National Institutes of Health. Thanks to a $4 million NIH grant and matching funding from the Health Sciences Center, we will be able to commence construction of a new wing on Pete and Nancy Domenici Hall that will allow us to catapult our research in Neurosciences.

Over the past year, our scientists and their research teams have received much-deserved recognition for their discoveries in areas like vaccine development, cancer treatment, Alzheimer’s therapy, community health interventions and much more.

Overall, our researchers are moving toward greater integration with our clinical practitioners in addition to their existing focus on conducting basic science. This promises to yield even more discoveries, new applications of existing technology and improved ways of providing clinical care.

And thanks to the major role played by the HSC in supporting the New Mexico Bioscience Authority, we are helping our state to realize the economic benefits of the cutting-edge research that happens here.

These many developments speak to the diversity and sophistication of our research environment. We have a great deal to be proud of, and I look forward to seeing what we will achieve in the coming year.
The UNM Health Sciences Center’s research mission encompasses a thriving scientific enterprise that is bringing hope for new cures to thousands of New Mexicans. But it is also a grant-funding powerhouse that makes a significant contribution to our state’s economy and serves as an agent of change in our communities.

This year, I’m pleased to report that we continue our quarter century-long record of steady increases in extramural funding, with a total of nearly $200 million in grants that support basic, translational and clinical research that has a positive impact on community health and health care throughout New Mexico. Many of these impacts are discussed in the stories in this year’s report.

We have made real progress in the study of substance use disorder, with a particular focus on finding ways to stem the continuing tragedy of opioid overdose deaths in our state. The research ranges from assessing the impact of neonatal opioid exposure to developing new, more effective medical/behavioral interventions and to new vaccines that could block the craving for drugs.

Along these lines, we spent much of the 2019 fiscal year planning for the renewal of our key strategic grants – the Clinical and Translational Science Award from the National Institutes of Health and the National Cancer Institute grant that supports our Comprehensive Cancer Center.

We were fortunate to receive an NIH construction grant earlier this year to support the addition of a 16,000-square-foot addition to Pete and Nancy Domenici Hall, adjacent to the UNM North Golf Course. When it is completed, the new wing will house faculty and laboratory space for our neurosciences and addictions-related research and will greatly enhance our efforts in these two critically important areas.

We are also extending our impact in multiple ways through forming strategic partnerships with the private sector and with other institutions in the community. We continue to play a central role in developing the New Mexico Bioscience Authority, which received staff funding from the New Mexico Legislature this year.

We are a key player (along with other local anchor institutions) in the Healthy Neighborhoods Albuquerque initiative, which is bringing jobs and addressing income inequalities in order to improve health in our neighborhoods that need it the most.

Finally, I want to thank the stellar faculty and staff whose efforts are reflected in this year’s grant listings. Your hard work is the key to our success.
The College of Nursing has made incredible progress over the past year in building a robust research enterprise that will yield solutions to urgent problems and improve the health and health equity of New Mexicans.

This initiative starts with providing our students with a solid foundation in clinical and biomedical research. We’re already seeing a dramatic improvement in how our program stacks up against other institutions. We’re now ranked No. 7 nationally for our nursing-midwifery program, and among the top 15% in the nation for the master of science in nursing program. We’ve also made an international list of the top 200 nursing programs in the world.

In a major step, we’re launching a new program to admit University of New Mexico freshmen directly into our bachelor of science in nursing program. Applicants must already have been admitted into the UNM Honors College, and they can expect to be doing research, just like other Health Sciences students.

We’ll encourage these students to pursue graduate studies, such as a master’s-level advanced practice registered nurse or doctoral degree. We’ll also help students apply for internships with the National Institutes of Health to hone their research skills.

We’re restructuring the College into two departments to reflect these priorities. One will focus on rural health and health equity, while the other will tackle bio-behavioral health and data science. We’re conducting a search for faculty to chair these departments.

We received $500,000 in funding from the Legislature this year to continue our leadership of the New Mexico Nursing Education Consortium, which works to coordinate curricula in nursing programs throughout the state.

We were pleased to fill 21 positions over the past year. Among our new faculty is Mary Patricia Couig, PhD, MPH, a retired rear admiral with the U.S. Public Health Service, who assumed the Carter-Fleck Endowed Professorship. She has extensive experience in state disaster preparedness and has led projects for the World Health Organization.

I have been fortunate to establish a laboratory at UNM to continue my own research, and earlier this year, we received a subaward grant from the American Association of Colleges of Nursing for the All of Us project – a major genome initiative to procure biological samples from a more diverse population.

This in turn will lead to more representative laboratory research. The New Mexico portion of the project has been extremely successful, as we were able to enroll many of our residents in the study.
College of Pharmacy faculty achieved more than $12.1 million in extramural funding in FY19, the second-highest level of total research funding ever awarded to the College in a single fiscal year.

In addition to many individually funded research projects, we hold several nationally recognized federally funded center grants and programmatic awards, and have hosted prestigious research conferences that have drawn national and international attendees.

We continue to rank in the top tier among the colleges of pharmacy in the nation – and we are highly innovative. College faculty currently hold 45 active U.S. patents and dozens of pending patent applications. We receive funding from an array of federal, foundation and industry sponsors, and have numerous state partnerships.

Our faculty continue their tireless efforts to improve public health and address the health concerns for some of New Mexico’s most vulnerable patient populations.

A team of environmental health scientists was recently awarded $17 million in Phase 2 National Institutes of Health funding to assess the impact of environmental exposures to abandoned mine waste on birth outcomes and child development on the Navajo Nation.

We are examining the cardiovascular impacts of inhaled pollutants on maternal physiology during and after pregnancy, as well as seeking to identify earlier markers for Fetal Alcohol Spectrum Disorders. This will particularly benefit very young children who often slip through the cracks with current diagnostic methods.

We are conducting research and providing treatment to enhance the lives of young adults in our LGBTQ community and those living with HIV. We are developing vaccines that have the potential to significantly improve the health of patients who regularly suffer from *Staphylococcus aureus* skin infections. And we are developing a technology to mask the bitter taste of drugs for pediatric patients.

In partnership with New Mexico Department of Health, we are evaluating the rational and appropriate use of anti-infective therapy to prevent antibiotic resistance and to treat tuberculosis. With both College and state funding, we are developing approaches to increase the availability and dispensing of naloxone to prevent deaths from opioid overdose.

Through industry and foundation funding, we have developed and are evaluating a population health curricular initiative to detect atrial fibrillation in patients at high risk for stroke.

I am grateful to those in the College who are involved with our research programs, and I am inspired by their resolve to improve the health of people in New Mexico, the nation and the world.
What is population health? It is an interdisciplinary approach to elucidating the multiple determinants of health in order to understand why some groups are healthier than others, and to determine how to improve health and health outcomes for diverse communities. Population health engages integrated strategies to help communities improve their health and expand access to high-quality and affordable health care.

The College of Population Health was established in 2016, becoming the second college of its type in the country. The College has experienced tremendous growth in its first-of-its-kind undergraduate degree program – and successfully maintained the master of public health degree program.

I have now served as dean for the College for just over five months. During this time, I have convened more than 200 one-on-one meetings. I have learned quite a bit from our excellent administrators, faculty and community partners. Our expertise in educating the future workforce in population health and public health is truly exceptional.

We have two active research centers. The Center for Participatory Research, led by Dr. Nina Wallerstein, has multiple participatory research projects with tribal partners. The Transdisciplinary Research, Equity, and Engagement Center, led by Dr. Lisa Cacari Stone, is a five-year, $7 million grant funded by the National Institutes of Health that brings together multiple academic departments and community partners to address the root causes of substance abuse and mental illness in New Mexico.

Our vision is for the College of Population Health to be globally recognized as a leader committed to health as a human right, thus we are committed to promoting health and social equity for everyone. Through education, applied research, policy, service and partnerships, the College of Population Health will:

• Educate a diverse workforce equipped with competencies in disease prevention, wellness, social determinants, environmental health, mental health, health care delivery and policy;
• Leverage our collective expertise in epidemiology, biostatistics, social sciences, community health, health policy and health care delivery to develop innovative interventions that are high-quality, data-driven and validated by multiple sources of evidence;
• Assess community, health system and environmental needs and assets in order to map disease, interventions and policies that warrant in-depth attention to improve health outcomes;
• Mobilize and expand partnerships within the UNM network, and with tribal, regional and global communities, public and private institutions and government agencies to advance health and social equity;
• Grow and sustain a College that is organizationally and financially strong with a climate that values and invests in human beings.

I look forward to meeting more of our stakeholders and I am excited for the future of the College.
I am so pleased with the scholarly work being done on our campus. I am proud of each researcher and his or her research project – even more so when that research will ultimately have a positive effect on the health of New Mexicans.

This year, I want to highlight some of that research, as well as our learners who are doing research. Their work speaks for itself!

Kimberly Page, PhD, MPH, professor in the Department of Internal Medicine, received a $2.8 million grant from the National Institute on Drug Abuse for the New Mexico Clinical Trials Node, which will enable clinical research and practice to address substance use in diverse, rural and underserved populations. This work has special relevance for New Mexico, which has long had one of the highest opioid overdose mortality rates.

Akshay Sood, MD, professor in the Department of Internal Medicine, received a $700,000 grant from the National Institute of General Medical Sciences to promote mentor interventions among Underrepresented Minority Researcher faculty at three Southwestern institutions and expand the scientific scope of the National Research Mentoring Network.

Yuri Yoshida, PT, PhD, director of the Fred Rutan Gait and Motion Analysis Laboratory, has won recognition for providing a deeper empirical understanding of biomechanics and muscle physiology regarding functional recovery after total knee arthroplasty.

And as you’ll read in this issue, School of Medicine faculty are leading two of the three interdisciplinary Grand Challenges initiatives set in motion last year by University president Garnett S. Stokes.

Janice Knoefel, MD, professor in the Departments of Internal Medicine and Neurology, co-leads the Successful Aging initiative, which will work to raise the threshold of functional status at which a person can remain independent, allowing individuals to have the resources to age in place.

Brandi Fink, PhD, assistant professor in the Department of Psychiatry & Behavioral Sciences, co-leads the Substance Use Disorders initiative. This Grand Challenge will take a coordinated, multi-systems approach to address substance use in New Mexico, making use of evidence-based implementation projects.

Meanwhile, the Community of Scholars, founded by medical students who desired a more intensive research experience, has evolved into a registered student organization. Participants work closely with faculty to explore their areas of interest, dedicating vacation and elective time to research. Many have secured grant funding, presented results at national meetings and published their findings in peer-reviewed journals.

Thank you to all of our researchers whose work improves the health of New Mexico and the world!
Last fall, UNM President Garnett S. Stokes launched an ambitious plan to recruit university faculty to propose interdisciplinary solutions to pressing social problems. Tackling these Grand Challenges, she said, would enable the university to have a tangible impact on people and society.

President Stokes selected three Grand Challenges: Sustainable Water Resources, Successful Aging and Substance Use Disorders. The latter two are closely interwoven with...
ongoing research initiatives at the
UNM Health Sciences Center.

Janice Knoefel, MD, a geriatrician with a clinical practice at the UNM Memory & Aging Center, heads up the Successful Aging initiative, while Brandi Fink, PhD, an assistant professor in the Department of Psychiatry & Behavioral Sciences, co-leads the Substance Use Disorders Grand Challenge with Katie Witkiewitz, Regents’ Professor in the Department of Psychology.

“The Health Sciences Center was very fortunate to have two of its proposals selected as Grand Challenges,” says HSC executive vice chancellor Richard S. Larson, MD, PhD. “This clearly reflects our commitment to conducting high-impact research that will translate into improved health care for New Mexicans.”

Each of the Grand Challenge teams has received funding to launch pilot programs to test out potential solutions, Larson says.

The Successful Aging proposal has a special urgency because New Mexico’s population is rapidly aging, according to Knoefel. “We all are getting older,” she says. “There are some things we can’t prevent. But a lot of what people think of as aging is really disease. We’ve known that for a long, long time.”

The proposal grew out of an informal process begun within the UNM School of Medicine in Fall 2018 by David Scrase, MD, a fellow geriatrician who earlier this year was appointed secretary of the New Mexico Human Services Department, Knoefel says.

Scrase convened a series of meetings with faculty whose shared expertise centered on treating older patients. When President Stokes issued her call for research, “We were well-positioned to go for the Grand Challenge, because we had already started meeting,” Knoefel says.

The proposal put forward on behalf of Successful Aging started with prevention, reaching out to people before they have age-related cognitive impairments and urging them to exercise and maintain social connections, Knoefel says. “The whole emphasis is on compressing disability,” she says. “We want to keep people as functional and healthy as possible.”

For those who are starting to show deficits, it is important to know who they are. “We would start to identify individuals at risk through health assessments at senior centers,” she says. The College of Nursing has been conducting such assessments for more than 20 years, she says, but these efforts could be expanded to include medical and pharmacy students.

“Once we have identified people who have needs, we have to do further assessment,” Knoefel says. This could entail home visits from physical and
“The whole emphasis is on compressing disability. We want to keep people as functional and healthy as possible.”

– Janice Knoefel, MD

“(W)e will engage schools and communities, general medical settings, specialty treatment settings and the criminal justice systems.”

– Brandi Fink, PhD
occupational therapists trained to ask, “What can we recommend as professionals to keep people optimally independent?”

And finally, when dementia and other cognitive impairments require intensive care, it’s important to pay attention to the caregivers, Knoefel says.

“Our idea was to really start to test out if care management actually makes a difference for the caregiver,” she says. When caregivers feel overburdened, the people they’re caring for make much higher use of health care resources and emergency department visits.

Substance use disorder, including addiction to alcohol, opioids and other substances, has taken a grim toll on New Mexico families, says Fink, who maintains a clinical practice focused on addiction treatment alongside her research interests.

Some 66% of opioid overdose deaths are due to prescribed opioid medications, she says, while data from the Office of the Medical Investigator show that in every Albuquerque zip code eight to 12 people die each year from an opioid overdose. “It’s an equal-opportunity offender,” Fink says.

“What we’re looking to do is coordinate and integrate interventions across multiple systems to really try to reverse the trend,” Fink says. “Part of the way we’re going to do that is to target the most-affected communities for intervention, while increasing the scientific basis for interventions.”

The Grand Challenge has set a high bar for success, Fink says. By 2030, it seeks to reduce alcohol, opioid and other substance mortality by 45% and substance-related consequences (including overdose, injury, and accidents) by 40%. It further seeks to cut crime, incarceration and recidivism by 20%, adverse childhood experiences by 20%, and overall economic costs of substance-related illness and death by 20%.

“To accomplish these goals, we will engage schools and communities, general medical settings, specialty treatment settings and the criminal justice systems,” Fink says. One of the overarching aims is to enhance resilience against substance use through prevention efforts, especially in Native American and rural communities, she says.

It is also important to improve screening and treatment for substance use disorders in general medical and specialty treatment settings. And there is a pressing need to improve access to substance abuse treatment for those who have become involved with the criminal justice system, Fink says.

The Substance Use Disorders team, which includes collaborators from throughout the Health Sciences Center and across Main Campus, has already garnered funding for nine pilot projects.

“As part of our Grand Challenge, with our money we are funding a pilot study to evaluate the implementation of Senate Bill 221, which requires opioid overdose counseling and naloxone co-prescribing,” Fink says. Prescriptions for naloxone, which rapidly reverses the symptoms of an opioid overdose, have sharply increased, and the number of overdose reversals has grown by nearly two-thirds, she notes.

In another initiative, Fink plans to engage with providers who have received a mandatory notification letter when a patient has died from an opioid drug they have prescribed.

“We’re looking at using those as opportunities to provide additional trainings, provide anxiety and depression screens and train providers to rely on those screens in writing an opioid prescription,” she says.

She also wants to implement an opioid stewardship program, to monitor opioid prescribing patterns and intervene with prescribers when necessary. “These are easy things to put in place,” Fink says. “And they have a big impact.”
Closing the Gap Between Basic Research and Patient Care
The Success of UNM’s KL2 Scholar Program
Translational research involves applying multi-disciplinary research to improve health outcomes and community benefit. Since 2010, The University of New Mexico’s Clinical and Translational Science Award has funded the UNM Clinical & Translational Science Center in its mission to enhance the transfer of research from laboratories to clinical practice and out into communities.

The KL2 Mentored Clinical Research Scholar Awards are part of the National Institutes of Health Clinical and Translational Science Awards Program, which has the goal of supporting a national network of medical research institutions to improve translational research.

Specifically, KL2 awards support career development for clinical investigators.

“The goal is to provide junior faculty assistant professors with some guaranteed funding and protected time so they can pursue translational research,” says Matthew Campen, PhD, UNM’s current KL2 director and professor in the College of Pharmacy. “We have four slots at any given time.”

When there is an opening, the KL2 program interviews candidates from inside and outside the state. Ideal candidates are health professionals with a doctoral degree (e.g., PhD, MD-PhD, PharmD, MD or equivalent), with a minimum of two years of post-terminal degree research experience. KL2 scholars are expected to obtain extramural funding while in the program and they commit to a career in translational research.

Successful candidates generate a plan for a clinical and translational research project – this is a crucial part of the selection process.

“A lot of times we only do basic science work that is far removed from patients,” Campen says, “while this program centers on the clinic, and our investigators focus on research questions that are in immediate need by the community.”

Currently, UNM has four KL2 scholars. Eliseo Castillo, PhD, (FY17–present) studies immunity in the gut. Kathryn Frietze, PhD, (FY18–present), shown on page 17, tries to transform antibody responses into targeted therapeutic or prophylactic interventions for infectious and chronic diseases. Daryl Domman, PhD, (FY20–present) uses genomics to investigate how infectious diseases, such as cholera, cause global pandemics in hopes of developing more effective programs to stem the spread of disease. Justin Baca, MD, PhD, (FY18–present) tests the efficacy of novel point-of-care devices through clinical trials in the Emergency Department.

The program has a multi-disciplinary, collaborative advisory committee, and each scholar has two mentors: one who works with basic science, and the other with clinical science.

“Diseases are multifactorial,” Campen explains, “so we want our scholars to work in a multi-disciplinary setting to solve translational research questions. We encourage them to embrace the complexities of those questions and take that perspective forward into their careers.”

KL2 Mentored Clinical Research Scholar Awards promote the career development of junior faculty and help them become the next generation of translational researchers. The NIH keeps track of how many of them are still doing clinical translational research.

“Our statistics so far show 100% success,” Campen says. “All our scholars are still doing translational research. Most of them work in UNM and are leaders in the program.”
With drug manufacturers facing litigation, bankruptcy and restructuring, many are asking who will pay the tab for the nation’s opioid crisis. Unfortunately, it seems to be the people who suffer from substance use disorders and their families. In fact, more than 130 people die each day in the United States as a result of opioid overdose, and at times the challenges surrounding the opioid crisis seem insurmountable.

UNM Health Sciences Center researchers are tackling the problem on many fronts, from the bench to the bedside – and back again. Often, these efforts run in parallel, but they work best together, using the preclinical data observed in mouse models and in cell cultures to inform the clinical responses – and vice versa, using clinical patient data sets to solve preclinical questions.

Not surprisingly, as the opioid crisis continues to surge, staggering rates of opioid addiction are also seen in pregnant women.

The tiniest victims of the opioid crisis are exposed to the drugs in utero, and after birth they often experience neonatal opioid withdrawal syndrome (NOWS). Symptoms include prolonged crying, sleeplessness, respiratory distress, excessive sucking, tremors and even seizures, sometimes severe enough to cause permanent brain damage.

According to the Centers for Disease Control and Prevention, incidence of NOWS grew nearly 400% between 2000 and 2013, and could affect as many as 2% of all births. The typical intervention for a baby with suspected NOWS is close observation, followed by medication-assisted therapy (MAT), such as methadone or buprenorphine.

Ludmila Bakhireva, MD, PhD, MPH, a professor and epidemiologist in the UNM College of Pharmacy, recently published a small study in the journal Early Human Development looking at the outcomes for those infants who receive MAT, versus those who don’t.

The study, which involved 78 maternal-infant pairs, observed that there was “little-to-no effect of MAT and pharmacological treatment of NOWS on infant neurodevelopmental and behavioral outcomes at 5-8 months of age,” which hadn’t been assessed before.

Interestingly they uncovered that one of the side effects of MAT and the prolonged hospital stays that go along with the treatment, could be “higher family distress,” which will be the focus of future work.

An ongoing research project, bringing together the clinical and
The tiniest victims of the opioid crisis are exposed to the drugs in utero, and after birth they often experience neonatal opioid withdrawal syndrome.
the pre-clinical worlds, between Bakhireva and Nora Perrone-Bizzozero, professor in the Department of Neurosciences, seeks to identify and explore biomarkers found in the umbilical cord blood of infants.

They hope to determine which infants will most benefit from these types of interventions. By identifying and measuring these molecules called micro-RNAs circulating in the blood, they hope to predict which children will benefit most from interventions following NOWS diagnosis.

New funding from the National Institute on Drug Abuse has led to the creation of a clinical trial node at UNM to study, among other things, the differences between injectable and sublingual applications of buprenorphine, a common treatment for opioid addiction. Other trials will begin soon on how to prevent and treat other substance use disorders.

The task of managing so many researchers can seem overwhelming, but epidemiologist Kimberly Page, PhD, professor in the Department of Internal Medicine, manages just fine.

Her group has worked hard at developing the Southwest Clinical Trial Node (SW-CTN), the first of its kind to be established at UNM in nearly 20 years, with the ultimate goal of reducing the medical consequences of opioid addiction.

She is particularly focused on reductions of soft tissue infections and blood-borne pathogens in these patient populations. “It typically takes 17 years to get evidence into clinical practice,” Page says, but her node “seeks to shorten that interval by engaging with clinicians in clinical settings.” In fact, her team has a subcommittee investigating new ideas for protocol development. This extremely active engagement group is comprised of community stakeholders, including the UNM Brain and Behavioral and Health Institute and the Department of Psychiatry & Behavioral Sciences, with an ultimate goal of growing collaborations in neighboring Colorado and Arizona.

“The strength of a SW-CTN is that New Mexico has a widely diverse population, which is largely rural,” Page says. “Successful completion of programs here could broadly translate to the rest of the U.S.”

Working to understand how substance use disorders change the brain and affect substance abuse programs is the focus of another lab, led by Brandi Fink, PhD, assistant professor in the Department of Psychiatry & Behavioral Sciences.

Fink used functional magnetic resonance imaging (fMRI) to assess which parts of the brain would light up, signaling activation, during specific tasks. Then she programmed a computer to calculate and learn specific associations – a form of machine learning. The goal of this project was to see if the complex relationship between different regions of the brain and their functional network connectivity could predict success or failure in a substance abuse treatment program.

As it turned out, when machine learning was applied to fMRI studies of incarcerated women, it was able to accurately predict which patients would successfully complete a substance abuse treatment plan. In fact, Fink’s algorithm was able to predict the outcome better than other clinical assessments, such as psychopathy, anxiety and depression, as well as motivation for change or age, sex, IQ and years of substance use.

Fink’s work illustrating these irregular neural connections, which predicted outcomes for those on a substance abuse treatment plan, could help to identify new targets for drug interventions with the aim of reducing or eliminating substance use disorder.

But what if we could stop opioid addiction from even occurring in the first place?

That’s what the lab of Kathryn Frietze, PhD, a KL2 scholar, and assistant professor in the Department of Molecular Genetics & Microbiology, hopes to do. Working with collaborators Naomi Lee, at Northern Arizona University, and Bryce Chackerian, PhD, professor in of Molecular Genetics & Microbiology, Frietze’s project centers around the development of a vaccine to target opioids.

A recent $250,000 grant awarded to the team will focus on whether using a virus-like particle (VLP) to create a vaccine could prevent or halt drug addiction. The vaccine would elicit an immune response to opioid
But what if we could stop opioid addiction from even occurring in the first place?

drugs, rendering the recipient unable to experience the “high” from the drugs. They got the idea for the project, after the National Institutes of Health had put out a call to the scientific community for new approaches to opioid vaccines.

Other work being done on vaccines looks promising, except that these approaches typically require many immunizations because they do not last very long. Because a VLP platform tends to elicit a more robust immune response with fewer required immunizations, they hope their approach would be more useful in people with substance use disorders who typically have a more difficult time coming in for repeated treatments.

Even though the work is still in its very early stages, Frietze says, “We have really promising results so far with our vaccine. We get very good responses in our initial animal studies. Next we plan on testing whether the vaccine prevents the effect of the drugs.”

The diverse array of researchers and research methods to overcome the scourge of opioid abuse holds promise to help New Mexico and the world.
UNM biomechanical engineer Christina Salas, PhD, an assistant professor with cross appointments in the School of Medicine and the School of Engineering, juggles a busy teaching load while finding time to run three highly active labs.

Her devotion to her work exemplifies UNM’s strong commitment to innovation and entrepreneurship.

One focus of her research results from a graduate course she teaches every fall semester based on the model of fellowships at Stanford University.

“It’s a bio-design course open to graduate students across the School of Engineering and from the HSC’s Biomedical Sciences Graduate Interprofessional Education programs, with the goal of developing medical devices,” she explains.

Before the course starts, Salas identifies a focus area and then embarks on a holistic view of potential problems to solve. She brings in guest faculty to orient students to physical challenges or limitations faced in their practices and takes students on field trips.

“We’ve looked at geriatrics, trauma and rehabilitation, and visited the helicopter pad, the emergency room, an ambulance bay and rehab facilities to see problems in action.”

Students brainstorm, then vet their ideas against a set of 10 acceptance criteria, before splitting into groups to research and develop potential devices for the bulk of the semester.

The class culminates with competitive pitches before a panel.

“It’s important to bring in Anderson School of Management faculty to help with marketing research, and other collaborators, angel investors and STC.UNM, to advise students on all aspects of development during the build-up to their pitches,” she notes.

Winners receive $50,000 of seed money and the chance to work...
closely with Salas in her lab.
“...I help them develop and test prototypes throughout the course of the year, and work through the steps of starting a business with them,” she notes. Students work with STC. UNM to protect intellectual property and pursue patents, if appropriate.

Winning devices have included a lower limb prosthetic device, a device for emergency responders to lift bariatric patients, a device that universally fits wheelchairs to support immobile limbs in stroke recovery, and a diagnostic patch for biomarkers in interstitial fluid to detect traumatic brain injury.

Salas’ second research effort focuses on education, working with co-principal investigators David Groh, MD, and Deanna Mercer, MD, (her colleagues in the Department of Orthopaedic Surgery & Rehabilitation) to measure outcomes in the use of drills, saws, probes and other tools by surgical residents.

“By turning surgical tools into ‘smart’ tools by placing sensors on them, we’re able to measure residents’ motor skills performance and also evaluate training in the surgical program,” Salas says. The team collaborates with seven other Southwestern universities annually to gather first-year resident data over the course of four days, and then compare results.

“We can then look at contrasts between programs and opportunities to collaborate in training – for instance, if one institution does consistently better with a certain instrument,” Salas explains.

However, it’s the exciting research in Salas’ 3-D printing lab that has garnered national attention.

In 2014, she was looking for an orthopedics problem to tackle through the use of 3-D printing. She turned her attention to the problem of ruptured ligaments, such as torn anterior cruciate ligaments.

Currently, the way to treat those injuries is to go to a site near the injury and take a portion or all of a perfectly functioning tendon to use in reconstructing the geometry of the ligament by drilling bone tunnels, pulling the tendon through and tacking the ends down with bone screws.

Salas found the challenge to improve this process intriguing.

“It is a very complex problem,” she says, “because you are working with functional tissue. So you don’t just have to make it look right – it has to be mechanically competent when someone is walking or running and bearing a load.”

Salas saw an opportunity to solve this problem by going all-out to develop a total joint replacement technology.

She and her team have developed a unique platform that combines 3-D bio-printing and near-field electrospinning to fabricate bone-ligament tissue engineering scaffolds in one unit. She is able to produce multi-material, multi-scale and biodegradable scaffolds and test their effectiveness with simulation.

“The intention is to produce a single unit for total joint replacement, with biodegradable manufactured tissues for eventual natural replacement by the body,” Salas explains.

The excitement surrounding her work is palpable on campus and off.

“In 2018, Salas was awarded a two-year supplemental grant from the National Institutes of Health through the UNM Clinical & Translational Science Center, with executive vice chancellor Richard S. Larson, MD, PhD, serving as co-PI. “Dr. Salas’ research is cutting-edge and will revolutionize the way orthopedic surgery is performed over the next decade,” Larson says.

Salas holds one patent, with several pending and has published extensively and presented her work around the world. In 2019, she was a finalist for the Orthopaedic Research Society New Investigator Award, and recognized by the National Institutes of Health at the Future Research Leader Conference as an invited lecturer and recipient.

Her ability to bridge disciplines, innovate and forge partnerships also makes her uniquely qualified for the role of special assistant to the Dean of Engineering for HSC relations.

“In the past five or six years, Main Campus and HSC have collaborated on events such as the Hackathon and Bioventure,” she says. “We are creating opportunities to bring in new faculty and bring people together.”

Salas’ remarkable talents and work ethic clearly represent the direction of scientific research at UNM and beyond – innovating in and out of the laboratory space, making connections between disciplines, bringing researchers together and teaching a generation of future scientists to achieve the same.
Rosstin Ahmadian, PhD Candidate  
T32 Scholar, NIH  
Oxidant signaling in pulmonary hypertension  
Mentor: Thomas Resta, PhD

Eduardo Anaya  
T32 Scholar, NIAID  
Infectious Disease, Cell Signaling, Biophysics

Camden Bair, PhD Candidate  
T32 Scholar, NIAID  
The impact of human adenovirus type 4 intratypic genetic variability on viral pathogenesis  
Mentor: Adriana Kajon, PhD

Victoria Balise, PhD  
K12 Scholar, NIGMS  
Hematopoietic stem cells  
Mentor: Jennifer Gillette, PhD

Daniel Barto, PhD  
K12 Scholar, NIH  
Computational psychiatry; neural markers of psychological disorders; developmental neurobiology  
Mentor: Elaine Bearer, MD, PhD

Cindy K. Blair, PhD, MPH  
KO7 Scholar, NCI  
Developing and disseminating home-based interventions to improve the health and well-being of underserved cancer survivor populations

Roger Brown, PhD  
T32 Scholar, NIAID  
Developing bioinformatics methods for studying RNA processing events in cellular differentiation of the immune system  
Mentor: Scott Ness, PhD

Janie Rae Byrum, PhD Candidate  
T32 Scholar, NIAID  
T cell immunology, particularly motility of T cells in lymph nodes and the molecular and structural factors that facilitate target cell identification  
Mentor: Judy Cannon, PhD

Sharina 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, NIH  
The potential role of zinc as a way to attenuate the carcinogenic effects of environmental metals on DNA repair mechanisms  
Mentor: Laurie Hudson, PhD

Daniel Falcon, PhD  
K12 Scholar, NIH  
Studying the role of iron and other micronutrients in the initiation and progression of colorectal cancer  
Mentor: Xiang Xue, PhD

Máté Fischer, PhD Candidate  
T32 Scholar, NIAAA  
Using first trimester-equivalent binge-drinking model to assess alterations to gene expression, cell fate determination and cortical regionalization in human stem cell-derived cortical neurons  
Mentor: Jason Weick, PhD

Muskan Floren, PhD Candidate  
F31 Scholar, NCI  
Acute myeloid leukemia resistance and relapse  
Mentor: Jennifer Gillette, PhD

Selina Garcia, PhD Candidate  
F31 Scholar, NHLBI  
Cardiovascular physiology  
Mentor: Nikki Jernigan, PhD

Ryan E. Harvey, PhD Candidate  
T32 Scholar, NIAAA  
Understanding the impact of prenatal alcohol exposure on hippocampal-parahippocampal place, grid and head direction signals  
Mentor: Benjamin Clark, PhD

Julie In, PhD  
KO1 Scholar, NIDDK  
Defining the functional characteristics of Enterohemorrhagic E. coli-Secreted Protein  
Mentors: Olga Kovbasnjuk, PhD; Eric Prosnitz, PhD; Jennifer Gillette, PhD; Edgar Boedeker, MD; Mary Estes, PhD

Elton Jhamba, PhD  
K12 Scholar, NIH  
Developing super-resolution microscopy technologies to study protein-protein interactions on mast cell membranes in allergic responses, as well as 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
Daniel A. Lujan, PhD Candidate  
F31 Scholar, NCI  
RNA biology; breast cancer biology; immunology  
Mentors: Rebecca S. Hartley, PhD; Nora Perrone-Bizzozero, PhD

Adrian J. Luna, PhD Candidate  
F31 Scholar, NCI  
Investigating the role of EGFR signaling in the HPV life-cycle  
Mentor: Michelle Ozbun, PhD

Perenkita Mendiola, PhD Candidate  
T32 Scholar, NIH  
Identification of endogenous regulators of cystathione gamma-lyase in endothelial cells  
Mentors: Nancy Kanagy, PhD; Laura Gonzalez Bosc, PhD

Emily Morin, PhD  
T32 Scholar, NIH  
Endothelial cholesterol regulation of vascular tone in hypertension and vascular disease  
Mentor: Jay Naik, PhD

Sarah Olguin, PhD Candidate  
T32 Scholar, NIAAA  
Studying the mechanism of impaired cognitive control after prenatal alcohol exposure using touchscreen-adapted operant behavior, in vivo electrophysiology, EEG recording, and immunohistochemistry  
Mentor: Jonathan Brigman, PhD

Gabriela Perales, PhD Candidate  
T32 Scholar, NIH  
Studying novel mechanisms that contribute to the teratogenic effects associated with prenatal alcohol exposure  
Mentor: Amy Gardiner, PhD

Melanie Rivera, PhD Candidate  
F31 Scholar, NCI  
Studying the role of Rac1 protein in the spread of ovarian cancer  
Mentor: Angela Wandinger-Ness, PhD

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

Rebecca Sena, PhD Candidate  
T32 Scholar, NIAAA  
Researching the impact of prenatal ethanol exposure on histaminergic neurotransmission in the hippocampus  
Mentors: Daniel Savage, PhD; C. Fernando Valenzuela, MD, PhD
Hailey Sedam, PhD  
K12 Scholar, NIH  
Studying adenoid cystic carcinoma and investigating the molecular mechanisms and genomic signatures of this disease  
Mentor: Scott Ness, PhD

Crystal Vander Zanden, PhD  
K12 Scholar, NIH  
Early aggregation events of amyloid beta (Alzheimer's disease)  
Mentor: Kathryn Frietze, PhD

Nikole Warner, PhD  
K12 Scholar, NIH  
Using a deep sequence-coupled biopanning technology to characterize the specificity of the antibody response to DENV in sera from infected patients  
Mentor: Eva Chi, 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 Candidate  
T32 Scholar, NIAID  
Investigating the relationship between neuroinflammation and tau pathology  
Mentor: Kiran Bhaskar, PhD

Christine Woods, PhD  
K12 Scholar, NIH  
Examining the contribution(s) of GPER in metabolic homeostasis and determining its therapeutic potential on adiposity and metabolic dysfunction  
Mentor: Eric Prossnitz, PhD

Xiang Xue, PhD  
KO2 Scholar, NIDDK  
Iron metabolism in GI diseases  
Mentors: Eric Prossnitz, PhD; Olga Kovbasnjuk, PhD

Sheldwin A. Yazzie, PhD, MPH  
K12 Scholar, NIH  
Investigating disparate environmental exposures and disease rates among disadvantaged populations, specifically on American Indian/Alaska Native populations  
Mentors: Charles Wiggins, PhD; Kevin English, DrPH
Excellence in Research Awards 2019

The UNM Health Sciences Center’s 11th Annual Research Day Awards Ceremony was held Nov. 15, 2019. The event, hosted by Executive Vice Chancellor Richard Larson, MD, PhD, and Paul Roth, MD, MS, Chancellor for Health Sciences, 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.

Esther Erdei, PhD, MPH
Pharmacy
Team Science

As an immunologist and epidemiologist in the Department of Pharmaceutical Sciences, Esther Erdei has been involved in several major population-based studies, particularly in Native American communities in New Mexico and South Dakota. She has analyzed clinical samples from study participants for various biomarkers of immune impairment. Her reputation in immunology has also landed her on several review boards for NIH grant proposals. Since 2006, she has been co-author on 16 papers with other UNM researchers. These have included both technical papers in immunology and others on the application of immunology to public health.

Thomas Resta, PhD
Cell Biology & Physiology
Basic Science

Thomas Resta’s research focuses on chronic hypoxia and intermittent hypoxia-induced pulmonary hypertension. As a principal investigator, he has maintained continuous funding through the National Institutes of Health and the American Heart
Association for nearly 20 years. He holds an R01 grant examining vascular smooth muscle signaling in intermittent hypoxia-induced pulmonary hypertension. In 2016, he took over as the principal investigator and director of the T32 grant Minority Institutional Research Training Program in Cardiovascular Biology. His research has particular relevance in New Mexico, where the incidence of cardiovascular-related disease is high, especially among the Hispanic and Native American populations.

Lisa Cacari Stone, PhD
Population Health
Population Science

Lisa Cacari Stone is the founder and principal investigator for the Transdisciplinary Research, Equity and Engagement (TREE) Center, funded by the National Institutes of Health, which tests multi-level interventions with partner faculty, staff and students drawn from across the UNM campus. She brings “real-life” experience to understanding health and disease as a former licensed behavioral health provider, director for a comprehensive child welfare agency, director of senior services, executive director of a rural federally qualified mental health clinic, state medical director and women’s health liaison with the U.S. Department of Health and Human Services.

Christina Salas, PhD
Orthopaedics & Rehabilitation
Junior Faculty

With dual appointments in the Department of Orthopaedics & Rehabilitation and the School of Engineering, Christina Salas maintains a busy research and teaching schedule. In her lab she is developing an advanced biomanufacturing process to fabricate bone-ligament tissue scaffolds. She is quickly becoming a leader in the area of advancing biomanufacturing for orthopaedic applications. This year, she was recognized by the National Institutes of Health as a Future Research Leader – one of 25 nationally. She was also an invited panelist for the Advances in 3-D Printing and Biofabrication Workshop at the 2019 Orthopaedic Research Society annual meeting.

Mark Unruh, MD
Internal Medicine
Clinical Science

Mark Unruh is a physician scientist who focuses on improving patient outcomes in chronic kidney disease. He has two primary avenues of investigation, the first being the impact of dialysis interventions on patient reported outcomes. The second is investigating sleep quality and sleep disorders in patients with chronic kidney disease with the aim of developing interventions in this at-risk group. He has also worked with community cohorts to describe sleep quality and sleep apnea in the general population and recently completed trials assessing the role of volume overload in the risk of obstructive sleep apnea.

Angela Wandinger-Ness, PhD
Pathology
Teaching and Learning

The associate director for Education, Training and Mentoring at the UNM Comprehensive Cancer Center, Angela Wandinger-Ness oversees the Cancer Center’s education and training program. Wandinger-Ness, the Victor and Ruby Hansen Surface Endowed Professor in Cancer Cell Biology and Clinical Translation, was awarded a competitive National Cancer Institute Continuing Umbrella of Research Experiences award. Over the past five years, the program has supported the research training of 57 undergraduate and high school Native American scholars at the Cancer Center. She has also had a profound impact on hundreds trainees in basic, translational and clinical research.
## Contracts and Grants 2019

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OFFICE OF THE CHANCELLOR

Sheila Hickey  
Health Resources and Services  
Administration  
Scholarship for Disadvantaged Students - Continuation $650,000

Elizabeth Kocher  
Lynore M. Martinez, M.D., Professional Association  
Locum Tenens-Santa Fe OBGYN $25,000  
Pueblo of Sandia  
Locum Tenens- Sandia Health Clinic $25,000  
Presbyterian Healthcare Services  
Professional Services $5,000

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 Project - Specific Supplement $50,000

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

Steven (Bruce) Williams  
Truman Health Services  
Provider Agreement - Evergreen $25,000

OFFICE OF THE EXECUTIVE VICE CHANCELLOR

Richard Larson  
University of New Mexico Foundation  
Private Gifts for Research  
(2nd Qtr - FY19) $2,195,146  
(1st Qtr - FY19) $344,862  
(4th Qtr - FY19) $295,297  
(3rd Qtr - FY19) $98,788

Center for Infectious Disease & Immunity

Thomas Byrd  
National Institute of Allergy and Infectious Diseases  
A Mouse Model of Mycobacterium Abscessus Lung Infection That Mimics Human Disease $75,750

Michelle Ozbun  
National Institute of Allergy and Infectious Diseases  
Biology of Infectious Disease and Inflammation $234,357

Terry Wu  
Sandia National Laboratories  
CRISPR Nano Delivery $35,000

Institute for Resilience, Health & Justice

Andrew Hsi  
Bernalillo County ADOBE $988,386

Memory & Aging Center

Janice Knoefel  
Virginia Commonwealth University  
(Subaward) Sensor-Based Mobility Assessment of Older Latinos With Dementia $13,256

Gary Rosenberg  
National Center for Research Resources  
MRI and CSF Biomarkers of White Matter Injury in VCID $1,109,293

Animal Research Facility

Richard Larson  
New Mexico VA Health Care System  
Veterinary Services for the NM Veterans Affairs Health Care System $29,303

CLINICAL & TRANSLATIONAL SCIENCE CENTER

Matthew Campen  
National Center for Advancing Translational Sciences  
University of New Mexico Clinical & Translational Science Center KL2 - Continuation $331,150

Mark Garcia  
Duke University  
Spironolactone Initiation Registry Randomized Interventional Trial in Heart Failure in Preserved Ejection Fraction $51,711

Richard Larson  
National Center for Advancing Translational Sciences  
University of New Mexico Clinical & Translational Science Center UL1 - Year 5 $3,759,779

National Center for Advancing Translational Sciences  
Collaboration to Enhance Naloxone Dispensing in Rural and Underserved Areas $298,963

University of Nevada, Las Vegas  
Institutional Development Award Program  
Infrastructure for Clinical and Translational Research: BERD $242,376

University of Nevada, Las Vegas  
Institutional Development Award Program  
Infrastructure for Clinical and Translational Research: PDC $138,156
National Center for Advancing Translational Sciences
Admin Supplement - Advanced Biomanufacturing of the Bone-Ligament Interface $74,436
University of Nevada, Las Vegas
Clinical and Translational Research Infrastructure Network $60,225
University of Pittsburgh
NCATS Accrual to Clinical Trials Project $37,875
University of Nevada, Las Vegas
Institutional Development Award Program Infrastructure for Clinical and Translational Research: CEO $17,347
University of Nevada, Las Vegas
Institutional Development Award Program Infrastructure for Clinical and Translational Research: T&I $13,858

Eric Prossnitz
Virtici, LLC
ASCEND: Accelerating Solutions for Commercialization and Entrepreneurial Development in the Mountain West IDeA States $300,000
Hengameh Raissy
University of Arkansas
Data Coordinating and Operations Center for the IDeA States Pediatric Clinical Trials Network - VDORA $107,737
University of Arkansas
Data Coordinating and Operations Center the IDeA - Amendment States Pediatric Clinical Trials Network - VDORA $18,309
Anjali Subbaswamy
Duke University
Dexmedetomidine Opioid-Sparing Effect in Mechanically Ventilated Children $71,750

COLLEGE OF NURSING

Christine Kasper
American Association of Colleges of Nursing All of Us $10,000
Mary Jane Lewitt
El Pueblo Health Service
El Pueblo Health Contract $58,111
Judy Liesveld
HRSA/Bureau of Health Workforce Nurse Education, Practice, Quality and Retention - Veteran Nurses in Primary Care $392,846
Indian Health Service
Success in Nursing for Native Americans Through Collaboration $337,341

HRSA/Bureau of Health Professions
NSL - Baccalaureate Nursing $182,311
New Mexico Board of Nursing
New Mexico Nursing Education Statewide Planning FY19 $11,546
Janice Martin
City of Albuquerque
Geriatric Education and Health Maintenance $67,000
Mountain Spirit Integrative Medicine
Mountain Spirit - Heidi Rogers $60,821
El Centro Family Health
El Centro Family Health $60,653
Presbyterian Healthcare Services
Presbyterian Healthcare Services $31,449
Carolyn Montoya
HRSA/Bureau of Health Workforce Advanced Nursing Education Workforce Program $653,899
ideas42
An Intervention for a Healthy Work-Life Balance $5,000
Elizabeth Tigges
Sigma Theta Tau
Sigma Theta Tau PSA $100,000

COLLEGE OF PHARMACY

Joe Anderson
New Mexico Department of Health BAA/Heart Disease and Stroke Prevention Program Health Systems Intervention Project $55,583
Ludmila Bakhireva
National Institute on Alcohol Abuse and Alcoholism ENRICH-2: Stress-Reactivity and Self-Regulation in Infants With Prenatal Alcohol Exposure $693,579
National Institutes of Health
Epigenetic Markers for Neonatal Abstinence Syndrome: Mechanistic Insights From an Established Birth Cohort $187,566
New Mexico Department of Health
Enhancing Pharmacy-Based Naloxone Distribution $122,380
Barry Bleske
University of Michigan
Genetic Determinants of ACEI Prodrug Activation $26,669
Matthew Campen
Centers for Disease Control and Prevention
Systemic Health Implications of Occupational Nanomaterial Exposure $482,356

National Institutes of Health
Inhalation of Contaminated Mine Waste Dusts As a Route for Systemic Metal Toxicity $481,610
Loveland Biomedical & Environmental Research Institute
Porcine Vascular Injury $239,395
Baylor College of Medicine
Notification of Access to Toxic Effects of E-cigs Following Transition From Conventional Cigarettes $124,368
Melanie Dodd
First Nations Community Healthsource, Inc.
First Nations Community Healthsource, Inc. $64,685
Hospice of New Mexico
Consultant Pharmacist - Hospice of New Mexico $13,130
Eszter Erdei
New York University
Educational Tools for Teaching Environmental Health Literacy to Nursing Students With a Focus on Indigenous Populations’ Health and Well-Being $30,370
Linda Felton
Biomedical Research Institute of New Mexico
Formulation Development Services $299,160
Eunice Kennedy Shriver National Institute of Child Health and Human Development
Aquous-Based Two-Step Spray Drying as a Taste-Masking Drug Delivery Platform $227,250
U.S. Department of Veterans Affairs
Formulation & Batch Records for the VA Medical Center $30,112
Pamela Hall
National Institute of Allergy and Infectious Diseases
Vaccine-Mediated Control of Bacterial Virulence Regulation and Infection $378,750
Joe Hoover
Diné College
Livestock Movement and Exposure to Abandoned Uranium Mine Waste in Cove Wash Watershed $237,079
Laurie Hudson
National Institutes of Health
Zinc Chemoprevention of Arsenic Co-Carcinogenesis $314,363
University of Oklahoma
Targeting G-CSF Receptor and Tumor-Associated Neutrophils in Colon Cancer $12,756
Johnnye Lewis  
National Institutes of Health  
Understanding Risk Gradients From Environment on Native American Child Health Trajectories  $4,250,620

National Institute of Environmental Health Sciences  
UNM Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest Superfund Research Program  $1,280,213

National Institute of Environmental Health Sciences  
Center for Native American Environmental Health Equity Research  $700,000

National Institutes of Health  
Understanding Risk Gradients From Environment on Native American Child Health Trajectories  $499,650

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

Duke University  
Attentional Mechanisms Underlying of Information Processing in a Sample of Navajo Children  $61,224

U.S. Environmental Protection Agency  
Center for Native American Environmental Health Equity Research  $50,000

National Institutes of Health  
Externship Supplement for UNM Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest P42ES025589  $10,536

Debra MacKenzie  
Duke University  
Using Silicone Wristbands As Non-Invasive Passive Environmental Monitors to Evaluate Seasonal and Within-Family Correlation for Environmental Exposures  $10,175

Renee-Claude Mercier  
New Mexico Department of Health  
Antimicrobial Stewardship Project  $69,600

Pavan Muttill  
Lynntech, Inc.  
An Inhaled Clofazimine Formulation for the Treatment of Tuberculosis  $42,265

Lynntech, Inc.  
An Inhaled Clofazimine Formulation for the Treatment of Tuberculosis  $20,000

Lynntech, Inc.  
An Inhaled Clofazimine Formulation for the Treatment of Tuberculosis  $750

James Nawarskas  
American Association of Colleges of Pharmacy  
Comparison of Standardized Patient Assessment of Communication Skills in Pharmacy and Medical Students  $3,621

Melissa Roberts  
Analysis Group, Inc.  
GSK Global Exacerbation Study  $1,800

Jay Simon  
DaVita Inc.  
DaVita Pharmaceutical Services  $90,000

Sandia National Laboratories  
SNL Isotopes Request  $4,375

Susan Smolinske  
Health Resources and Services Administration  
Poison Control Stabilization and Enhancement Program  $120,802

Denver Health and Hospital Authority  
Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #12  $17,185

U.S. Consumer Product Safety Commission  
New Mexico Carbon Monoxide Safety  $2,500

Denver Health and Hospital Authority  
Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #13  $1,562

Traci White  
Memorial Medical Center  
Pharmacist Clinician for Inpatient Consult Team - Continuation  $44,200

Memorial Medical Center  
Pharmacist Clinician for Inpatient Consult Team  $42,016

Mesilla Valley Hospice  
Mesilla Valley Hospice Pharmacist Clinician Services Agreement  $39,394

Katherine Zychowski Bufford  
National Institute of Environmental Health Sciences  
Neurovascular Consequences of Inhaled Uranium Mine-Site Dust Exposure  $85,401

COLLEGE OF POPULATION HEALTH

William Athas  
New Mexico Department of Health  
Technical Enhancement and Application Project  $57,425

Lisa Cacari Stone  
National Institute on Minority Health and Health Disparities  
FY20 TREE Center for Advancing Behavioral Health  $1,404,730

National Institute on Minority Health and Health Disparities  
TREE Center for Advancing Behavioral Health - AD/ADRD Specific Supplement  $378,738

Alexis Handal  
National Institute of Environmental Health Sciences  
Maternal Ethylenethiourea Levels, Newborn Thyroid Function and Infant Development  $490,444

National Institute of Environmental Health Sciences  
Maternal Ethylenethiourea Levels, Newborn Thyroid Function and Infant Development - Diversity Supplement  $83,740

Johnnye Lewis  
National Institutes of Health  
Understanding Risk Gradients From Environment on Native American Child Health Trajectories  $4,250,620

National Institute of Environmental Health Sciences  
UNM Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest Superfund Research Program  $1,280,213

National Institute of Environmental Health Sciences  
Center for Native American Environmental Health Equity Research  $700,000

National Institutes of Health  
Understanding Risk Gradients From Environment on Native American Child Health Trajectories  $499,650

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

Duke University  
Attentional Mechanisms Underlying of Information Processing in a Sample of Navajo Children  $61,224

U.S. Environmental Protection Agency  
Center for Native American Environmental Health Equity Research  $50,000

National Institutes of Health  
Externship Supplement for UNM Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest P42ES025589  $10,536

Debra MacKenzie  
Duke University  
Using Silicone Wristbands As Non-Invasive Passive Environmental Monitors to Evaluate Seasonal and Within-Family Correlation for Environmental Exposures  $10,175

Renee-Claude Mercier  
New Mexico Department of Health  
Antimicrobial Stewardship Project  $69,600

Pavan Muttill  
Lynntech, Inc.  
An Inhaled Clofazimine Formulation for the Treatment of Tuberculosis  $42,265

Lynntech, Inc.  
An Inhaled Clofazimine Formulation for the Treatment of Tuberculosis  $20,000

Lynntech, Inc.  
An Inhaled Clofazimine Formulation for the Treatment of Tuberculosis  $750

James Nawarskas  
American Association of Colleges of Pharmacy  
Comparison of Standardized Patient Assessment of Communication Skills in Pharmacy and Medical Students  $3,621

Melissa Roberts  
Analysis Group, Inc.  
GSK Global Exacerbation Study  $1,800

Jay Simon  
DaVita Inc.  
DaVita Pharmaceutical Services  $90,000

Sandia National Laboratories  
SNL Isotopes Request  $4,375

Susan Smolinske  
Health Resources and Services Administration  
Poison Control Stabilization and Enhancement Program  $120,802

Denver Health and Hospital Authority  
Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #12  $17,185

U.S. Consumer Product Safety Commission  
New Mexico Carbon Monoxide Safety  $2,500

Denver Health and Hospital Authority  
Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #13  $1,562

Traci White  
Memorial Medical Center  
Pharmacist Clinician for Inpatient Consult Team - Continuation  $44,200

Memorial Medical Center  
Pharmacist Clinician for Inpatient Consult Team  $42,016

Mesilla Valley Hospice  
Mesilla Valley Hospice Pharmacist Clinician Services Agreement  $39,394

Katherine Zychowski Bufford  
National Institute of Environmental Health Sciences  
Neurovascular Consequences of Inhaled Uranium Mine-Site Dust Exposure  $85,401

COLLEGE OF POPULATION HEALTH

William Athas  
New Mexico Department of Health  
Technical Enhancement and Application Project  $57,425

Lisa Cacari Stone  
National Institute on Minority Health and Health Disparities  
FY20 TREE Center for Advancing Behavioral Health  $1,404,730

National Institute on Minority Health and Health Disparities  
TREE Center for Advancing Behavioral Health - AD/ADRD Specific Supplement  $378,738

Alexis Handal  
National Institute of Environmental Health Sciences  
Maternal Ethylenethiourea Levels, Newborn Thyroid Function and Infant Development  $490,444

National Institute of Environmental Health Sciences  
Maternal Ethylenethiourea Levels, Newborn Thyroid Function and Infant Development - Diversity Supplement  $83,740
Rebecca Rae
ANAV Tribal Health Clinic - Quartz Valley Indian Reservation
QVIR Evaluation for Youth & Family Tree Project $99,978

Francisco Soto Mas
University of Texas Health Center at Tyler
Health, Safety and Psychosocial Organic Farming Survey $93,948

Kristine Tollestrup
Health Resources and Services Administration
New Mexico MCH Public Health Training Institute $168,284

Nina Wallerstein
National Institutes of Health
Advancing CBPR Practice Through a Collective Reflection and Measurement Toolkit $479,541

University of Texas at El Paso
BUILDing SCHOLARS - Continuation $54,083

Nikki Jernigan
National Heart, Lung, and Blood Institute
The Role of the Acid-Sensing Ion Channel 1 in the Systemic Vasculature $33,071

Nancy Kanagy
Exhalix, LLC
Non-Invasive Detection of PAD $530,018

Nora Perrone-Bizzozero
National Cancer Institute
Cold-Inducible RNA Binding Protein Links Inflammation and Breast Cancer $30,019

Thomas Resta
National Institutes of Health
Minority Institutional Research Training Program (T32) $382,142

National Institutes of Health
Vascular Smooth Muscle Signaling in Intermittent Hypoxia-Induced Pulmonary Hypertension $378,750

Leslie Andritsos
The SASS Foundation and Hairy Cell Leukemia Foundation
Development of a Novel Scoring System for the Diagnosis and Disease Monitoring of Classic and Variant Hairy Cell Leukemia $361,703

Cecilia Arana Yi
New Mexico Cancer Care Alliance
Clinical Trial Phase 2 $120,048

Jessica Belmonte
New Mexico Cancer Care Alliance
Clinical Trial $93,640

Marianne Berwick
National Cancer Institute
Integration of Clinical and Molecular Biomarkers for Melanoma Survival $1,944,358

Morgan State University
A Student-Centered Entrepreneurship Training Program to Increase the Diversity of the Biomedical Workforce $48,552

Anonymous Non-Profit Foundation
Family Listening Program - Capacity Building Mini Conference $760

SCHOOL OF MEDICINE

Anesthesiology

Eugene Koshkin
Medtronic
UNM Pain Medicine Fellowship FY18-19: Medtronic $20,000

John Rask
Vanderbilt University Medical Center
Simulation Multicenter Project $29,449

Biochemistry & Molecular Biology

Oscar Bizzozero
National Multiple Sclerosis Society
Prophylactic and Therapeutic Effects of Liprostatin-1 in EAE $55,000

Amy Gardiner
National Institute on Alcohol Abuse and Alcoholism
The Role of mir-150 in Regulating Angiogenesis During Prenatal Alcohol Exposure $217,781

Laura Gonzalez-Bosc
American Heart Association (Southeast Affiliate)
Novel Collagen V-Reactive Natural TH17 Cells in Hypoxic Pulmonary Hypertension $300,000

Department of the Navy
Biomarkers of Hypoxia Exposure $202,824

Department of the Navy
Biomarkers of Hypoxia Exposure $52,824

Helen Hathaway
National Cancer Institute
Is Tumor-Adjacent Histologically Normal Tissue Primed for Tumorigenesis? $303,617

National Cancer Institute
Is Tumor-Adjacent Histologically Normal Tissue Primed for Tumorigenesis? $67,096
National Cancer Institute  
Genomic Evaluation of the Female Survival Advantage in Melanoma  
$75,897

National Cancer Institute  
Genomic Evaluation of the Female Survival Advantage in Melanoma  
$74,384

Cynthia Blair  
National Cancer Institute  
Improving Physical Functioning in Older Cancer Survivors Through Light-Intensity Physical Activity  
$154,415

Richard Harvey  
Rutgers, The State University of New Jersey  
Project HERO  
$129,233

Yan Guo  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 2  
$97,480

Matthew Fero  
University of Washington  
Systems and Carcinogenic Impact Assessment of Topical Microbicides on Human Mucosa - Continuation Year 5  
$125,853

Dolores Guest  
Consulate of Mexico in Albuquerque  
Ventanilla De Salud 2019  
$36,000

Consulate of Mexico in Albuquerque  
Ventanilla De Salud - Specific Supplement  
$10,000

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

Richard Harvey  
National Cancer Institute  
Integration of Gene Expression Patterns, Fusions, Mutations, Cytogenetics and Other Clinical Variables for Subtyping Leukemias and Targeting Therapies  
$154,500

Richard Lauer  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 2  
$103,230

New Mexico Cancer Care Alliance  
Clinical Trial Phase 1b/2  
$90,430

American Cancer Society  
Transportation Plan for UNM Cancer Center  
$5,000

Jean McDougall  
Rutgers, The State University of New Jersey  
Comparative Effectiveness of Interventions to Increase Guideline-Based Genetic Counseling in Ethnically and Geographically Diverse Cancer Survivors  
$423,939

Carolyn Muller  
National Cancer Institute  
Community Oncology Research Program Minority/Underserved Community Sites (UM1)  
$1,263,252

NRG Oncology  
NRG Oncology Foundation: National Clinical Trials Network and NCI Community Oncology Research Program (Federal)  
$718,644

NRG Oncology  
NRG Oncology Foundation: National Clinical Trials Network and NCI Community Oncology Research Program (Non-Federal)  
$718,644

National Cancer Institute  
Community Oncology Research Program Minority/Underserved Community Sites (UM1)  
$528,484

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2  
$103,880

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2b  
$103,880

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2  
$103,880

NRG Oncology  
NRG Member Site Support  
$15,000

Scott Ness  
National Institutes of Health  
Mutations and Target Genes ACC - Yr2 - FY19  
$359,813

Adenoid Cystic Carcinoma Research Foundation  
RNA-Sequencing - LG Cohort of ACC Samples  
$137,629

Eric Prossnitz  
National Cancer Institute  
GPER & Breast Carcinogenesis (3)  
$353,942

National Cancer Institute  
Molecular Mechanisms & Apps of ER/GPER Ligands - FY19 Continuation  
$320,000

Dialysis Clinic, Inc.  
GPER Kidney Disease Renewal  
$192,100

Linnaeus Therapeutics  
SBIR-Linnaeus Therapeutics/g-1 Enantiomer Subaward  
$60,000

New Mexico State University  
New Mexico (INBRE) Specific Supplement - Amendment #13  
$2,416

Ian Rabinowitz  
Takeda Pharmaceuticals North America, Inc.  
Professional Services Agreement  
$9,000

Thomas Schroeder  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 3  
$40,500

Larry Sklar  
Leidos, Inc.  
BASE Project: NCI Experimental Therapeutics Chemical Biology Consortium  
$280,000

Leidos, Inc.  
WDR5 Project: NCI Experimental Therapeutics Chemical Biology Consortium  
$270,000

Leidos, Inc.  
WDR5 Project: NCI Experimental Therapeutics Chemical Biology Consortium  
$120,000

Leidos, Inc.  
LDHA Project: NCI Experimental Therapeutics Chemical Biology Consortium  
$92,000

Heloisa Soares  
New Mexico Cancer Care Alliance  
Clinical Trial Phase 1/2  
$116,680

New Mexico Cancer Care Alliance  
Clinical Trial Phase 3  
$116,680

New Mexico Cancer Care Alliance  
Clinical Trial Phase 2A  
$109,640

Dana Farber Cancer Institute  
Project 2: EL CENTRO: Engaging Latinos in the CENter of Cancer TReatment Options  
$15,150

Alan Tomkinson  
National Institute of General Medical Sciences  
Cellular Functions of Eukaryotic DNA Ligases  
$395,252

National Institute of Environmental Health Sciences  
Roles of Lig3 and XRCC1 Genes in Genome Stability  
$375,660

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

Lovelace Respiratory Research Institute  
DNA Repair-Lung Disease-LRRI  
$74,883

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

Charles Wiggins  
National Cancer Institute  
Surveillance Epidemiology and End Results Program  
$2,697,259
New Mexico Department of Health
Breast and Cervical Cancer Surveillance Project $6,330

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

National Cancer Institute
Dissemination of a Colorectal Cancer Screening Program Across American Indian Communities in Southern Plains and Southwest United States $300,000

National Cancer Institute
Developing and Maintaining a Web-Based Source of Cancer Surveillance Data for American Indians and Alaska Natives $293,284

National Cancer Institute
University of New Mexico Cancer Center Support Grant - Tobacco Cessation Supplement $250,001

National Cancer Institute
Cancer Health Disparities Regional Training Network (GMaP) $241,885

National Cancer Institute
Women in Survivorship Healthcare: Creation of a Rural Cancer Survivorship Program Using Project ECHO $200,000

National Cancer Institute
Expand NCI-Supported Community Outreach Capacity Through Community Health Educators of National Outreach Network $125,000

National Cancer Institute
Continuing Umbrella Research Experience $113,625

Cowboys for Cancer Research
Cowboys for Cancer Research $89,816

National Cancer Institute
Cancer Clinical Investigator Team Leadership Award $60,000

Brigham and Women’s Hospital
Biomarker, Imaging and Quality of Life Studies Funding Program - Specific Supplement $40,181

Bridget Wilson
National Institute of General Medical Sciences
Center for the Spatiotemporal Modeling of Cell Signaling $2,463,519

Continuing Medical Education

Kathy Brekenridge
Richard Wolf Medical Instruments Corporation
Endoscopic Spine Health Conference $7,500
KARL STORZ Endoscopy-America, Inc.
Endoscopic Spine Health Conference $7,500

Dental Medicine

Gary Cuttrell
New Mexico Higher Education Department
Training Dentists to Treat Pediatric Patients $900,000
Office of Rural Health Policy
Postdoctoral Training in General, Pediatric and Public Health Dentistry and Dental Hygiene $500,000
New Mexico Department of Health
Basic Oral Health Services $102,355
Office of Rural Health Policy
Special Needs Dental Residency Training Program $65,000
New Mexico Department of Health
Basic Oral Health Services - Specific Supplement $4,000

Melissa Ivers
HRSA/HIV-AIDS Bureau
HRSA Ryan White Part F $285,682
HRSA/HIV-AIDS Bureau HRSA Ryan White Part F $285,682

ECHO Institute

Sanjeev Arora
Leona M. and Harry B. Helmsley Charitable Trust Helmsley Charitable Trust for Global Replication Support $3,750,000

Health Resources and Services Administration
South Central AIDS Education and Training Center Program $3,041,653
Robert Wood Johnson Foundation
ECHO-RWJF Partnership for National Health $2,000,000

New Venture Fund
ECHO/Co-Impact Partnership for Achieving Global Scale $1,412,761

Defense Health Agency
Telementoring Services Defense Health Agency $782,611

Accreditation Council for Graduate Medical Education
ACGME Patient Safety - Quality Improvement Programming $315,000

Jhpiego Corporation
Jhpiego Healthcare Workforce $200,000

New Mexico Corrections Department
New Mexico Corrections Department Hepatitis C $190,644

New Mexico Department of Health
Hepatitis C and HIV Clinical Consultant Project - (Multi-Year) $179,772

Bernalillo County
Bernalillo County Re-Entry ECHO/CHW Training w/BAA $150,000

Co-Impact
Co-Impact Strategic Planning Support $150,000

New Mexico Department of Health
New Mexico DOH Tuberculosis Project ECHO FY19 $150,000

Seattle Indian Health Board
Project ECHO Supporting the Enhanced Implementation of Health and Wellness $150,000
<table>
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<tr>
<th>Organization</th>
<th>Project Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>New Mexico Department of Health</td>
<td>New Mexico First Responder ECHO Program</td>
<td>$115,000</td>
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<td>Northwest Portland Area Indian Health Board</td>
<td>Indian Health Services TeleECHO Clinic Support</td>
<td>$100,000</td>
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<td>Albuquerque Area Indian Health Board, Inc.</td>
<td>Leveraging Project ECHO for a Comprehensive Approach to Health and Wellness in Indian Country</td>
<td>$94,500</td>
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<td>American Institutes for Research</td>
<td>AIR Medication-Assisted Treatment - Continuation Yr 3</td>
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<td>Albuquerque Area Indian Health Board, Inc.</td>
<td>Tribal Epidemiology Centers</td>
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<td>Seattle Indian Health Board</td>
<td>Project ECHO Supporting the Enhanced Implementation of Health and Wellness</td>
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<td>American Society of Addiction Medicine</td>
<td>FAME Clinic</td>
<td>$70,001</td>
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<td>Tanzania Health Promotion Support</td>
<td>Leveraging the ECHO Model to Improve Lab Services in Tanzania</td>
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<td>New Mexico Department of Health</td>
<td>TB Border Health</td>
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<td>Bernalillo County</td>
<td>Bernalillo County Re-Entry ECHO PHASE 2</td>
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<td>Health Research Inc.</td>
<td>ECHO Partnership for Quality Improvement Innovations in HIV Care</td>
<td>$31,500</td>
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<td>Laura and John Arnold Foundation</td>
<td>Impact of Opioid ECHO Programs on Health and Health Care - Specific Supplement</td>
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<td>African Society for Laboratory Medicine</td>
<td>ECHO Institute Collaboration With the African Society of Laboratory Medicine - Continuation</td>
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<td>New Mexico Department of Health</td>
<td>Anti-Microbial Stewardship</td>
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<td>New Mexico Department of Health</td>
<td>New Mexico DOH Sponsorship of NM AETC Conference</td>
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<td>University of Kentucky</td>
<td>Partnership With the University of Kentucky and Gilead for Quality HCV Care - Continuation</td>
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<td>Region IX Education Cooperative</td>
<td>New Mexico Public Education Department Education ECHO</td>
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<td>Four Seasons</td>
<td>Four Seasons Palliative Care Grant</td>
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<td>Indiana University</td>
<td>Indiana PEP Program</td>
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<td>Northwest Portland Area Indian Health Board</td>
<td>Support for Endocrinology Pilot</td>
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<td>Emergency Medicine</td>
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<td>Danielle Albright</td>
<td>New Mexico Crime Victims Reparation Commission</td>
<td>$76,000</td>
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<td>Justin Baca</td>
<td>Coordination of the Domestic Violence Death Review Team</td>
<td>$96,000</td>
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<td>Abbott Laboratories Inc.</td>
<td>CS-2018-011 Clinical Evaluation of the I-STAT Ionized Calcium and Lactate Tests in Venous and Arterial Specimens</td>
<td>$140,848</td>
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<td>Abbott Laboratories Inc.</td>
<td>CS-2017-0007 Clinical Evaluation of I-STAT PTplus/aPTT Cartridge for APTT in Subjects Receiving Heparin Therapy</td>
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<td>Abbott Laboratories Inc.</td>
<td>CS-2017-0007 Clinical Evaluation of I-STAT PTplus/aPTT Cartridge for APTT in Subjects Receiving Heparin Therapy</td>
<td>$3,519</td>
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</table>
| Laura Banks                                                                  | New Mexico Department of Transportation  
Pedestrian Safety Initiative                                                    | $300,000 |
<p>| New Mexico Department of Health                                              | New Mexico Hospital and Health Systems Preparedness                                   | $99,698  |
| New Mexico Senior Olympics                                                    | National Senior Games                                                                 | $12,000  |
| Darren Braude                                                                | Department of the Air Force UNM Educational Service Agreement                        | $518,760 |
| Department of the Air Force UNM Educational Service Agreement                | $518,760                                                                             |
| City of Albuquerque                                                          | Medical Directorship                                                                   | $406,250 |
| Department of the Air Force UNM Educational Service Agreement                | $389,070                                                                             |
| City of Albuquerque                                                          | Professional Services- Medical Directorship                                          | $187,500 |
| Bernalillo County Fire Department                                            | Medical Directorship                                                                   | $63,053  |
| State of New Mexico                                                          | Medical Directorship for TEMS Program                                                  | $55,000  |
| City of Albuquerque                                                          | Professional Services Agreement                                                       | $50,000  |
| Department of the Air Force UNM Educational Service Agreement                | $48,000                                                                             |
| Department of the Air Force UNM Educational Service Agreement                | $48,000                                                                             |
| Western Refining Southwest, Inc.                                             | Medical Directorship                                                                   | $33,000  |
| Sandoval County Regional Emergency Communications Center                     | Medical Director Services                                                            | $28,368  |
| Wilderness Medics Inc                                                         | Medical Director                                                                       | $25,000  |
| County of Bernalillo                                                         | Professional Services                                                                  | $19,999  |
| K&amp;I Field Services                                                           | Medical Direction and Care                                                            | $12,500  |
| Kirtland Air Force Base                                                       | Paramedic Training Program - 119PAR006                                               | $8,500   |
| National Park Service                                                         | Zion National Park BLS Refresher                                                       | $7,250   |
| Village of Angel Fire                                                        | Medical Director                                                                       | $6,000   |
| Motion Picture Set Medics, LLC                                                |                                                                                       |          |
| Motion Picture Set Medics, LLC                                                |                                                                                       |          |</p>
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<tr>
<td>Kirtland Air Force Base</td>
<td>CE Package Course - August</td>
<td>$2,460</td>
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<tr>
<td>Kirtland Air Force Base</td>
<td>CE Package Course - May</td>
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<tr>
<td>Sandia Crest Marathon</td>
<td>Medical Directorship</td>
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<tr>
<td>Kirtland Air Force Base</td>
<td>2018 CE Package Course 009</td>
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<td>Quick Draw</td>
<td>Medical Directorship</td>
<td>$880</td>
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**Joy Crook**
New Mexico Department of Health
NM DOH Statewide EMS Project $50,000

**Jon Kenneth Femling**
Yes Biotechnology Inc.
Pilot Study of Strepic Device for the Diagnosis of Group a Streptococcal Pharyngitis $205,500

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<tr>
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<tr>
<td>Sandia National Laboratories</td>
<td>Rim-to-Rim Continuation 2018-2019 Yr 3</td>
<td>$55,740</td>
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<tr>
<td>Duke University</td>
<td>Multi-Center, Randomized, Open-Label Trial to Evaluate the Efficacy of Oral Fosfomycin Versus Oral Levofloxacin Strategies in Complicated Urinary Tract Infections</td>
<td>$8,000</td>
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</table>

**Olive View Medical Center-UCLA**
EMERGEncy Idnet: Emergency Department Sentinel Network for Surveillance of Emerging Infections $6,000

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<tr>
<td>Andrew Harrell</td>
<td>National Park Service Grand Canyon Medical Direction</td>
<td>$36,000</td>
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<td>Department of the Air Force Nellis Air Force Base PJ Refresher</td>
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<td>National Park Service Grand Canyon National Park - EMS Medical Services - Continuation</td>
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<td>Steven McLaughlin</td>
<td>New Mexico State Fair Emergency Medical Services &amp; Directorship</td>
<td>$53,983</td>
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<td>Taos County Medical Directorship</td>
<td>$36,000</td>
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<tr>
<td>Grace (Joo-Hee) Park</td>
<td>The Mind Research Network The Impact of Diffuse Mild Brain Injury on Clinical Outcomes in Children</td>
<td>$84,252</td>
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<tr>
<td>The Mind Research Network</td>
<td>The Impact of Diffuse Mild Brain Injury on Clinical Outcomes in Children</td>
<td>$79,544</td>
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<tr>
<td>University of Michigan</td>
<td>RNA Biosignatures: A Paradigm Change for the Management of Young Febrile Infants (Phase I)</td>
<td>$10,551</td>
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<tr>
<td>Aaron Reilly</td>
<td>Trans-Pecos Ultra Medical Directorship</td>
<td>$2,000</td>
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<td>Robert Sapien</td>
<td>Health Resources and Services Administration Child Ready: Expanding a Novel Community Self-Assessment Approach to Regionalization (EMSC Demonstration Grants)</td>
<td>$200,000</td>
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<td>HRSA/Maternal and Child Health Bureau EMSC Partnership Grants</td>
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<td>HRSA/Maternal and Child Health Bureau EMSC Partnership Grants - PECC Learning Collaborative</td>
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<td>Health Resources and Services Administration</td>
<td>Child Ready: Expanding a Novel Community Self-Assessment Approach to Regionalization (EMSC Demonstration Grants)</td>
<td>$94,700</td>
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<td>Health Resources and Services Administration</td>
<td>Child Ready: Expanding a Novel Community Self-Assessment Approach to Regionalization (EMSC Demonstration Grants)</td>
<td>$93,704</td>
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<td>Health Resources and Services Administration</td>
<td>EMS for Children State Partnership Grant</td>
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<td>Nationwide Children’s Hospital</td>
<td>C-Spine</td>
<td>$60,300</td>
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</table>

**Philip Seidenberg**
Siemens Healthcare Diagnostics, Inc.
Specimen Collection in the Emergency Department for the Assessment of Clinical Performance of the Siemens PBNP Assay/centaur-201806 | $392,264 |

**Isaac Tawil**
DCI Donor Services
Medical Directorship Services | $19,777 |

**Chelsea White**
Pueblo of Laguna Fire Protection Program
Laguna Pueblo Medical Direction | $80,000 |

Ramah Navajo School Board, Inc. dba Pine Hill Health Center
Medical Directorship for Ramah Navajo School Board, Inc. Pine Hill, New Mexico w/BAA - Continuation | $45,000 |

Pueblo of Acoma EMS
Acoma Pueblo EMS Medical Directorship W/BAA - Continuation | $36,000 |

Cibola County
Medical Directorship | $12,000 |

**Jenna White**
Pueblo of Jemez
Pueblo of Jemez Medical Direction 2018 | $20,000 |

Town of Cochiti Lake
Medical Director Services | $7,500 |

**Family & Community Medicine**
Antoinette Benton
New Mexico Department of Health
Transdisciplinary Evaluation and Support Clinic - FY19/MSU | $501,493 |

Falling Colors Corporation
FY20 Pre-Administration Screening and Resident Review | $194,569 |
Falling Colors Corporation
Pre-Administration Screening and Resident Review - FY19 $127,000

New Mexico Department of Health
Transdisciplinary Evaluation and Support Clinic - FY19 $43,238

New Mexico Department of Health
Transdisciplinary Evaluation and Support Clinic - FY19/MSU $13,293

Marlene Ballejos
American Association of Medical Colleges AAMC Funding $18,750

Laura Chambers-Kersh
University of California, San Francisco Mozambique Family Medicine Position $30,227

Jennifer Hettema
Health & Human Services/Office of the Secretary FY20 Prevention of Teen Pregnancy Through Screening and Brief Intervention in Primary Care $1,000,000

Health & Human Services/Office of the Secretary Prevention of Teen Pregnancy Through Screening and Brief Intervention in Primary Care $939,000

Arthur Kaufman
City of Albuquerque Presbyterian Case Management FY19 $750,000

Presbyterian Healthcare Services Presbyterian Healthcare Contract for Services $232,586

New Mexico Department of Health
New Mexico Immunization Coalition - FY19 $137,787

Sarah Lathrop
New Mexico Department of Health
New Mexico Emerging Infections Program - FY20 $570,333

New Mexico Department of Health
New Mexico Emerging Infections Program - FY19 $434,922

New Mexico Department of Health
New Mexico Emerging Infections Program - FY18 $221,354

Marnie Lynn Nixon Project Concern International NM CoILN $52,000

Orrin Myers
National Park Service
FY20 Statistical Analyses of Restoration Monitoring Programs in the Jemez Mountains of Northern New Mexico $19,338

Janet Page-Reeves EleValle FY20 Ele Valle Evaluation Services $9,375

Nancy Pandhi
Wisconsin Partnership Program Experience-Based Co-Design Catalyst Film Project $39,028

Oregon Health & Science University
Oregon Clinical and Translational Research Institute: Experiences With Pediatric Cancer $15,137

Tassy Parker
University of Colorado Denver Collaborative Hubs to Reduce the Burden of Suicide Among American Indian & Alaska Native Youth $135,532

Washington State University
Native-Controlling Hypertension and Risks Through Technology $57,338

University of Colorado Health Sciences Center Center for American Indian and Alaska Native Health Disparities $29,682

University of Colorado Denver
NIDDK-Funded Center for American Indian and Alaska Native Diabetes Translation Research $18,805

Washington State University
Native-Controlling Hypertension and Risks Through Technology $6,489

David Rakel
Presbyterian Medical Services Professional Services $27,000

First Choice Community Healthcare Professional Services $23,000

First Choice Community Healthcare Professional Services Agreement $1,106

Robert Rhyne
New Mexico Department of Health Academic Detailing Project FY19 $98,115

Valerie Romero-Leggott
HRSA/Bureau of Health Workforce National HCOP Academies $639,840

Helene B Silverblatt
HRSA/Bureau of Health Workforce Area Health Education Centers Program $309,000

HRSA/Bureau of Health Workforce Area Health Education Centers Program $74,407

Robert Williams
Health Resources and Services Administration Transforming Primary Care in Under-Served Communities $247,690

Internal Medicine

Christos Argyropoulos

Dialysis Clinic, Inc. 2018 East by Southwest Nephrology Conference $21,089

Dialysis Clinic, Inc. TRILO2GY Start Up Payment $870

Cristian Bologa
Givaudan Flavors Corporation
Givaudan Research Agreement - Year 11 $205,000

Steven Bradfute
Albert Einstein College of Medicine Prometheus: A Platform for Rapid Development of Immunotherapeutics and Immunoprophylactics Against Emerging Viral Threats $318,150

Los Alamos National Laboratory Immunogenicity of Delayed Antigen Release Systems $100,000

Defense Threat Reduction Agency Effects of Differential Gycosylation on Filovirus Glycoprotein Immunogenicity $299,784

Marcos Burgos
New Mexico Department of Health Tuberculosis Medical Care, Consultation and Education Services $390,000

Kelly Chong
Dialysis Clinic, Inc. Risk Factors of 30-Day Re-Hospitalization Among Patient Receiving Inpatient Dialysis: Towards Inpatient Care Quality Improvement $421,290

Stacey Clegg
Rutgers, The State University of New Jersey Myocardial Ischemia and Transfusion - CCC $10,000

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 $481,266
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<td>Gregory Mertz</td>
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**Populations $2,751,799**

**Use in Diverse, Rural and Underserved Research and Practice to Address Substance New Mexico Clinical Trials Node: Clinical National Institute on Drug Abuse $87,929**

**Transplantation**

**Evaluation and Living Donor Kidney University of Pittsburgh $1,000,000**

**Genome Illuminating the Druggable Knowledge Management Center for National Institutes of Health $121,200**

**Illuminating the Druggable Genome by The Jackson Laboratory $1,268,832**

**Advocates for Hepatitis C Upstate Affiliate Organization $429,986**

**Injectors Acute Hepatitis C Infection in Young National Institute on Drug Abuse $52,607**

**Commons A Collaboration for the NIH Data University of North Carolina $30,161**

**STI-CTG University of California, San Francisco $28,980**

**Vernon Pankratz Dialysis Clinic, Inc. Professional Services Agreement - Biostatistician Services $52,606**

**Douglas Perkins National Institute of Allergy and Infectious Diseases Defining the Inflammation and Immunity Transcriptome in Severe Malarial Anemia for Immunotherapeutic Discovery - Y2 $716,070**

**John E. Fogarty International Center for Advanced Study in the Health Sciences Training and Research on Severe Malarial Anemia $267,968**

**Harvard School of Public Health Fogarty Global Health Training Fellowship Program $42,130**

**Los Alamos National Laboratory Diagnostics for Pediatric Tuberculosis $116,358**

**Los Alamos National Laboratory Diagnostics for Pediatric Tuberculosis $40,000**

**Surya Pierce The Bell Group, Inc. Professional Services: UNM Center for Life $12,500**

**Fares Qedan Albuquerque Area Indian Health Board, Inc. Indian Tribal Health Data in the Southwest Region: Transformation, Management and Analyses $116,358**

**Fares Qedan Albuquerque Area Indian Health Board, Inc. Large Tribal Health Data in the Southwest Region: Transformation, Management and Analyses $37,432**

**David Schade George Washington University Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study Year 7 $672,584**

**National Institute of Diabetes and Digestive and Kidney Diseases Diabetes Prevention Program (DPPOS)-Phase 3 - Y2 $313,764**

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

**Case Western Reserve University Epidemiology of Diabetes Intervention and Complications and Hypoglycemia-Arrhythmia Study - Supplement $29,647**

**National Institute of Diabetes and Digestive and Kidney Diseases Diabetes Prevention Program (DPPOS)-Phase 3 $27,095**

**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 4 $12,845**

**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 4 $12,205**

**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 4 - 19-20 $7,831**

**University of South Florida Type I Diabetes Trialnet $650**

**University of South Florida Type I Diabetes Trialnet $310**

**Melissa Schiff New Mexico Governor's Commission on Disability Incidence Rates of TBI in New Mexico $35,000**

**Mark Sheldon U.S. Department of Veterans Affairs Interventional Cardiology Services at the VA $408,161**

**Akshay Sood National Institutes of Health Effectiveness of Innovative Research Mentor Interventions Among Underrepresented Minority Faculty in the Southwest $701,440**

**Miners Colfax Medical Center Medical Consultation and Care - Y3 $34,122**

**Miners Colfax Medical Center Medical Consultation and Care - Y3 $34,122**

**QTC Medical Group Second Medical Opinion Evaluations FY19 $25,000**

**Miners Colfax Medical Center An Innovative Approach to Increasing Access to Miners in the Mountain West $21,517**
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EGFR Signaling As the Nexus for HPV Oncogene Regulation $40,167

Xuexian Yang
National Institutes of Health
Leptin Promotes Allergic Asthma Through Unfolded Protein Responses $189,375

**Neurology**

Christopher Calder
San Juan Regional Medical Center Professional Services $25,000

Vertex Pharmaceuticals Incorporated
Protocol VX16-150-102: A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Six-Week, Parallel-Design Study of the Efficacy and Safety of VX-150 in Treating Subjects With Pain Caused by Small Fiber Neuropathy $1,006

Corey Ford
Actelion Clinical Research, Inc.
AC-058B302: Multicenter, Randomized, Double-Blind, Parallel-Group, Add-On Superiority Study to Compare the Efficacy and Safety of Ponesimod to Placebo in Subjects With Active Relapsing Multiple Sclerosis Who Are Treated With Dimethyl Fumarate (Tecfidera®) $267,374

John Phillips
Eunice Kennedy Shriver National Institute of Child Health and Human Development
Building Research Capacity in Child Neurology: A U.S./Sri Lanka Research Collaborative - FY19 $177,186

The Mind Research Network
MDA Core-COBRE II FY20 $14,464

The Mind Research Network
MDA Core-COBRE II FY20 $13,935

Stefan Posse
National Institutes of Health
Concurrent High-Speed fMRI and MRSI (R21) $176,501

Jennifer Vickers
New Mexico Department of Health
CMS Outreach Clinics - Neurology $21,100

Guangbin Xia
University of Rochester
FOR-DMD: Double-Blind Randomized Trial to Optimize Steroid Regimen in Duchenne MD AWD00001200 $18,180

Yi Yang
electroCore, LLC
electroCore Supplement $5,650

Atif Zafar
University of California, San Francisco
The Brain Vascular Malformation Consortium: Predictors of Clinical Course - Phase 3 Clinical Trial $170,672

University of Chicago
Trial Readiness in Cavernous Angiomas With Symptomatic Hemorrhage - Year 2 $38,000

GEPS Physician Group of New Mexico
Stroke Care w/BAA $15,000

**Neurosciences**

Andrea Allan
National Institute of Environmental Health Sciences
Prenatal Arsenic Exposure Alters Transcriptional, Post-Transcriptional and Post-Translational Programming of the Glucocorticoid System in a Sexually Dimorphic Manner $335,604

Jonathan Brigman
National Institute on Alcohol Abuse and Alcoholism
Prenatal Alcohol Exposure and Corticostriatal Control of Behavioral Flexibility $335,714

University of California, San Diego
Neurophysiological Biomarkers of Behavioral Dimensions $146,223

Kevin Caldwell
National Institute on Alcohol Abuse and Alcoholism
Sex-Dependent Effects of Prenatal Alcohol Exposure on Developmental Programming $335,774

Nikolaos Mellios
National Institutes of Health
Role of Psychiatric Disease-Associated Circular RNAs in Neuronal Function and Cognition $361,240

Johns Hopkins University
Placental Mediated Mechanisms of Perinatal Brain Injury $4,827

Erin Milligan
National Institute on Alcohol Abuse and Alcoholism
Prenatal Alcohol Exposure Potentiates Pain Via Lifelong Spinal-Immune Changes $292,878

Nora Perrone-Bizzozero
The Mind Research Network
Mining the Genome-Wide Scan: Genetic Profiles of Structural Loss in Schizophrenia - Non-Specific Supplement $3,210

Daniel Savage
National Center for Advancing Translational Sciences
Impact of SAR152954 on Prenatal Alcohol Exposure-Induced Neurobehavioral Deficits - Continuation $301,164

Bill Shuttleworth
National Institute of Neurological Disorders and Stroke
Spreading Depolarizations and Neuronal Vulnerability $326,885

New Mexico State University
New Mexico IDEeA Networks of Biomedical Research Excellence $157,965

New Mexico State University
New Mexico IDEeA Networks of Biomedical Research Excellence - Specific Supplement $9,999
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<td>Tou Yia Vue</td>
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<td>Underlying Molecular Mechanisms of Gliogenesis and Gliomagenesis in the CNS</td>
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**UNM Health Sciences Center Research Annual Report 2019**
Office of the Medical Investigator

Karen Cline Parhamovich
Lovelace Health System
FY20 Lovelace Health System - Autopsy (Billing Through NSAR) $8,000

Lauren Decker
New Mexico Department of Health
FY19 OMI Mass Fatality Planning $49,849
New Mexico Department of Health
FY19 New Mexico Violent Death Reporting System $5,275

Hannah Kastenbaum
New Mexico Public Safety Department
FY2019 Paul Coverdell Forensic Science Improvement Award $78,320

Sarah Lathrop
New Mexico Department of Health
Opioid Mortality Surveillance (Increase Funding Y3) $51,379
U.S. Consumer Product Safety Commission
MECAP Reports $1,260
U.S. Consumer Product Safety Commission
MECAP Reports $882

Kurt Nolte
New Mexico Department of Health
FY19 OMI Death Certificates & Toxicology Panels for Potential Overdose Deaths $211,867
U.S. Department of Veterans Affairs
VA 2018 - 2019 Non-Forensic Autopsy Services $120
New Mexico Department of Health
FY19 New Mexico Violent Death Reporting System $5,275

Orthopaedics & Rehabilitation

Marybeth Barkocy
University of Oklahoma
Special Education Research and Innovation to Improve Services and Results $4,244

Thomas Decoster
Arthrex, Inc.
Arthrex Orthopaedic Trauma $5,000
Biomet, Inc.
BIOMET 2019 AAOS Conference $1,500

Rick Gehlert
Bonesupport
Clinical Trial of CERAMENT As Part of Surgical Repair of Open Diaphysial Tibial Fractures (FORTIFY) - Specific Supplement $153,564

Beth Moody Jones
Langford Consulting, Inc.
Professional Services Agreement $37,764

Antony Kallur
NuVasive Inc
NuVasive, Inc $38,400

Robert Schenck
University of Pittsburgh
Surgical Timing and Rehabilitation for Multiple Ligament Knee Injuries: A Multicenter Integrated Clinical Trial $10,815

ExplorAbilities, Inc.
Professional Services (Orthopaedics & Rehabilitation) $33,696

Gehron Treme
Synthes, Inc.
Depuy Synthes AO Trauma $10,000

Johnson & Johnson
Synthes AO
Resident Education Support Tuition/Travel Grant $5,475

Orthopaedics & Rehabilitation

OTA Fall Residents Comprehensive Fracture Course $3,972

Daniel Wascher
Arthrex, Inc.
Arthrex Orthopaedic Sports $20,000

Smith & Nephew, Inc
2019-2020 Fellowship Support Program $20,000

Pathology

Tione Buranda
Sandia Biotech, Inc.
PSA Sandia Biotech, Inc. $4,000

Douglas Clark
TriCore Reference Laboratories
Medical Directorship and Professional Services $2,664,190

Kendall Crookston
Vitalant Research Institute
Transfusion Medicine Fellowship $99,973

Karissa Culbreath
TriCore Reference Laboratories
CRSA_Clinical Performance of the Accelerate Phenotest™ BP Kit Using the Accelerate Pheno™ System for Determining Organism Identification, Semi-Quantitation, and Antimicrobial Susceptibility Testing From Respiratory BAL and Mini-BAL Samples $6,500

 exploring the performance of the Accelerate Phenotest™ BP kit using the Accelerate Pheno™ system to determine organism identification, semiquantitation, and antimicrobial susceptibility testing from respiratory BAL and Mini-BAL samples.

Bruce Edwards
University of Connecticut
Developing a Screening Campaign for Immune Enhancers $151,500

TriCore Reference Laboratories
Protocol: 120616rlm: BHI Broth With Ciprofloxacin and Macconkey Agar With Ciprofloxacin $1,498

TriCore Reference Laboratories
Gamma Evaluation of Accelerate Sample Preporep™ Module, Accelerate Phenotest™ BP Kit, and Reference Method for BAL and Mini-BAL Specimens $1,300

TriCore Reference Laboratories
Gamma Evaluation of Accelerate Sample Preporep™ Module, Accelerate Phenotest™ BP Kit, and Reference Method for BAL and Mini-BAL Specimens $1,300
Jennifer Gillette
American Cancer Society
CD82 Regulates Acute Myeloid Leukemia Adhesion With the Bone Marrow $792,000

National Institutes of Health
Functional Role of Tetraspanin CD82 in Hematopoietic Stem Cell Interaction - Continuation $378,750

National Cancer Institute
The Impact of CD82 Expression on Acute Myeloid Leukemia Chemosensitivity and Disease Relapse - Continuation $33,396

Diane Lidke
Genmab
Dissecting the Mechanisms of Action for Hexabody-Driven DR5-Induced Cell Death $259,844

National Institute of General Medical Sciences
Imaging the Early Events in Membrane Receptor Signaling $1

David Martin
TriCore Reference Laboratories
Multi-Center, Retrospective, Pivotal Study to Evaluate the Accuracy and Precision of the Aperio Epathology System for Primary Diagnosis of Formalin-Fixed Paraffin-Embedded Tissue Section: Professional Services $22,500

TriCore Reference Laboratories
PSA TriCore/Roche $5,485

Larry Sklar
National Institutes of Health
A High-Throughput Chemical Screen to Identify Inhibitors of the Azole Transporter Cdr1p in Candida $273,077

University of Miami
Illuminating the Druggable Genome Resource Dissemination and Outreach Center $255,000

Gilead Sciences
Evaluation of Novel Probes - Continuation $198,006

Boston Children’s Hospital
Compounds That Block a Novel Candida Albicans Target $146,388

Gilead Sciences
Evaluation of Novel Probes - Specific Supplement $73,100

Mohammad Vasef
TriCore Reference Laboratories
Biocartis to UNM IRB Review Fees (Dr. Vasef) $3,200

Angela Wandinger-Ness
National Institutes of Health
Academic Science Education and Research Training - Continuation $809,129

National Cancer Institute
The Role of Rac1 in Ovarian Cancer Metastasis and Niche Interaction $33,990

Stephen Young
DNA Electronics
Protocol 22-0001-01: Sample Acquisition Study to Evaluate the DNA Electronics Inc Pathogen Capture System and DNAe Group Holdings Genalysis System (LIDIA Bloodstream Infection Test) $18,993

Pediatrics
Shirley Abraham
Oregon Health & Science University
Hemophilia Treatment Centers (SPRANS) $34,250

Oregon Health & Science University
Regional Hemophilia Network-Mountain States - Continuation $34,250

American Thrombosis and Hemostasis Network
A Natural History Cohort Study of the Safety, Effectiveness, and Practice of Treatment for People With Hemophilia (ATHN 7) $31,900

Novo Nordisk, Inc.
Protocol No. NN7008-3553
A Multi-Center Non-Interventional Study of Safety and Efficacy of Turoctocog Alfa (RFVIII) During Long-Term Treatment of Severe and Moderately Severe Haemophilia a (FVIII≤2%) $31,834

Oregon Health & Science University
Community Counts $26,407

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 $17,214

American Thrombosis and Hemostasis Network
ATHN Data Quality Counts: Round 10.1 $10,400

Oregon Health & Science University
ATHENA1: Characterizing the Impact and Treatment of Reproductive Tract Bleeding on Women With Bleeding Disorders $4,000
Pacific Sickle Cell Regional Collaborative
Pacific Sickle Cell Regional Collaborative $2,000

**Tanya Baker-McCue**
New Mexico Division of Vocational Rehabilitation
DVR School to Work $500,000

New Mexico Division of Vocational Rehabilitation
DVR School to Work Project $500,000

New Mexico Division of Vocational Rehabilitation
DVR Partners for Employment $410,000

New Mexico Division of Vocational Rehabilitation
DVR Partners for Employment $410,000

New Mexico Developmental Disabilities Planning Council
DDPC Information Network $165,000

New Mexico Developmental Disabilities Planning Council
DDPC Information Network $165,000

New Mexico Developmental Disabilities Planning Council
DDPC Health Access MOU $10,000

New Mexico Developmental Disabilities Planning Council
DDPC Health Access MOU $10,000

**Sophie Bertrand**
New Mexico Children, Youth & Families Department
Home Visiting Training $1,461,411

**Laura Caffey**
Health Resources and Services Administration
New Mexico Pediatric Pulmonary Center - Continuation $298,875

New Mexico Department of Health
Summer Asthma Institute Project $6,920

**Anthony Cahill**
HRSA/Maternal and Child Health Bureau
New Mexico Perinatal and Infant Oral Health Quality Improvement Project - Continuation $249,918

American Association on Health & Disability
Project Accessibility USA: Health Promotion for Women With Disabilities - Continuation $34,600

**Glenda Canaca**
New Mexico Human Services Department
Social Marketing $389,653

**Loretta Cordova de Ortega**
New Mexico Department of Health
Children’s Medical Services Outreach Clinics Project - Specific Supplement $46,200

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

San Juan Regional Medical Center
Echocardiograms - Continuation $25,000

Northern Navajo Medical Center
Provide On-Site Pediatric Genetic Clinic Services for the Northern Navajo Medical Center - Shiprock $4,800

Northern Navajo Medical Center
Service Contact $4,800

**Theresa Cruz**
New Mexico Human Services Department
SNAP-Ed Evaluation $167,366

Thornburg Foundation
Increasing Home Visiting Referrals Through Implementation, Dissemination and Evaluation $85,000

Presbyterian Healthcare Services
REACH $72,000

New Mexico Department of Health
Safe Sleep $21,100

New Mexico Department of Health
Violence Prevention Project $10,500

McCune Charitable Foundation
PRO HV - 2018 $10,000

Presbyterian Healthcare Services
Mobile Food Market $10,000

National Dance Institute - New Mexico
NDI-NM Eval $3,500

**Sally Davis**
Centers for Disease Control and Prevention
Village Interventions and Venues for Activity II - Continuation $405,091

Centers for Disease Control and Prevention
Prevention Research Center Core Continuation $328,909

New Mexico Department of Health
Teen Outreach Program $300,899

Centers for Disease Control and Prevention
NOPREN - Early Childcare Settings Serving Southwest American Indians and Hispanic Populations $80,000

New Mexico Department of Health
Implementing Evidence-Based Recommendations in Community Projects $30,939

New Mexico Resiliency Alliance
Multivariate Resiliency Index Development $5,400

**Walter Dehority**
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 $32,000

Zavante Therapeutics, Inc.
ZTI-01-100: Single-Dose of ZTI-01 (Fosfomycin for Injection) in Pediatric Subjects (Less Than 12 Years of Age) Receiving Standard of Care Antibiotic Therapy for Proven or Suspected Infection or for Peri-Operative Prophylaxis $32,000

**Sara Del Campo de Gonzalez**
Harvard Graduate School of Education
Health’s Early Roots & Origins: Field Testing Measures of Stress System Activation in Children in Pediatric Primary Care Settings $36,503
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<td>Improving Quality (75/25 &amp; 50/50 Medicaid Match) Supporting Child Development Through Evidence-Based Practices</td>
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<td>Improving Quality (75/25 &amp; 50/50 Medicaid Match) Supporting Child Development Through Evidence-Based Practices</td>
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*New Mexico Department of Health*
*Long-Acting Reversible Contraception Training and Stocking Project - Specific Supplement*
New Mexico Department of Health
Early Childhood Evaluation Program SGF/Part B/Part C $1,082,000

New Mexico Children, Youth & Families Department
CDD Preschool Development Grant $748,500

Falling Colors Corporation
Early Childhood Infrastructure Development (FY19) $598,000

Administration for Community Living
University Center for Excellence in Developmental Disabilities $547,000

New Mexico Department of Health
DDSD Partners for Employment $25,000

Clinical Consultation for Rural Brindle Foundation
DDSD FIT - Specific Supplement $61,730

New Mexico Department of Health
Parent Infant Psychotherapy $63,000

Falling Colors Corporation
Medically Fragile Case Management $86,000

New Mexico Department of Health
DDSD Statewide Training Database $111,607

New Mexico Department of Health
Developmental Disabilities $547,000

Harris Center for Excellence in Infant and Early Childhood Mental Health $360,000

New Mexico Public Education Department
Early Childhood Evaluation Program SGF/PartB/PartC - PED $150,000

New Mexico Department of Health
DDSD Informed Choice $100,000

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

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
New Mexico SAFE Program $83,437

Falling Colors Corporation
Parent Infant Psychotherapy $63,000

New Mexico Department of Health
DDSD FIT - Specific Supplement $61,730

Brindle Foundation
Clinical Consultation for Rural Providers $25,000

New Mexico Department of Health
DDSD Partners for Employment - Supplement $6,600

Martha Muller
Merck, Sharp & Dohme, Inc.
MK7655A-021-0358: A Clinical Study to Evaluate the Safety, Tolerability, Efficacy and Pharmacokinetics of MK-7655A in Pediatric Participants From Birth to Less Than 18 Years of Age With Confirmed or Suspected Gram-Negative Bacterial Infection $291,258

Cystic Fibrosis Foundation
Cystic Fibrosis Center of New Mexico - CF Registry $63,345

Sylvia Negrete
Anonymous Sponsor
Healthy Lifestyles Programming $50,000

Dawn Novak
New Mexico Department of Health
Developmental Care Continuity Program - Fee for Service - Continuation $118,000

New Mexico Department of Health
Developmental Care Continuity Program - Continuation $61,390

New Mexico Department of Health
Developmental Care Continuity Program - Fee for Service - Specific Supplement $57,620

Robin Ohls
RTI International
NICHD Cooperative Multicenter Neonatal Research Network: TOP 5 and NNR $50,000

Pat Osbourn
New Mexico Public Education Department
PED Pre-K Consultation $1,674,717

New Mexico Public Education Department
FOCUS Preschool Special Education $583,983

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

New Mexico Public Education Department
PED Pre-K Consultation $226,825

Region IX Education Cooperative
Region IX Education Cooperative - Autism $212,453

U.S. Department of Education
Project for New Mexico Children Who Are Deaf-Blind $107,917

New Mexico Developmental Disabilities Planning Council
Partners in Policymaking/EC Project $67,000

Rio Rancho Public Schools
Rio Rancho Consultations $55,690

Albuquerque Public Schools
APS Consultations - Specific Supplement FY19 $20,567

Carlsbad Municipal Schools
Carlsbad Consultations $14,191

Silver Consolidated Schools
Silver Consolidated Schools Consultations $13,958

Albuquerque Public Schools
APS Consultations $11,033

Belen Consolidated Schools
Belen Consultations $11,000

Belen Consolidated Schools
Belen Public Schools Consultations $10,765

Silver Consolidated Schools
Silver Consolidated Schools Consultations $9,729

Silver Consolidated Schools
RBT Supervision $9,518

Bernalillo Public Schools
Bernalillo Consultations $6,250

Estancia Municipal Schools
Estancia Municipal Schools Consultations $5,775

Moriarty-Edgewood School District
Moriarty Edgewood Consultations $5,664

Silver Consolidated Schools
Silver Consolidated Schools FY2019 $4,976

Lucille Papile
Stanford University
Webinar Implementation for the Science of Enhancing Resilience NICUs Study - Continuation $1,810

Linda Penaloza
New Mexico Department of Health
YRRS - Continuation $169,201

New Mexico Department of Health
YRRS - Specific Supplement $95,000

Albuquerque Public Schools
APS 1807 $77,000

New Mexico Public Education Department
PED Evaluation $36,500

Albuquerque Public Schools
APS Evaluation $36,500

New Mexico Department of Health
Sexual Violence Prevention Meeting $3,323

Hengameh Raissy
inVentiv Clinical, LLC
AV003: Phase 3 Study Evaluating the Efficacy and Safety of PT027 Compared to PT007 Administered As Needed in Response to Symptoms in Symptomatic Adults and Children 4 Years of Age or Older With Asthma (MANDALA) $77,587
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<tr>
<th>Sponsor/University</th>
<th>Project Description</th>
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<td>Vertex Pharmaceuticals, Inc.</td>
<td>VX17-44S-105: A Phase 3, Open-Label Study Evaluating the Long-Term Safety and Efficacy of VX44S Combination Therapy in Subjects With Cystic Fibrosis Who Are Homozygous or Heterozygous for the F508del Mutation</td>
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<td>AstraZeneca Pharmaceuticals, LP</td>
<td>Protocol D3250c00045: Multicenter, Randomized, Double-Blind, Controlled Study Evaluating the Safety and Efficacy of Mab 30mg Sc in Patients With Severe Asthma Uncontrolled on Standard of Care Treatment</td>
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<td>Multicenter Validation of Predictive Sputum Biomarkers in CF</td>
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<td>Mary Ramos</td>
<td>SBIRT in School-Based Health Centers in New Mexico</td>
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<td>Norma Ventura</td>
<td>American Academy of Pediatrics Flu2Text: A Multi-Site Study Assessing an Intervention for Second Dose of Influenza Vaccine</td>
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<td>Jennifer Vickers</td>
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<td>Kristi Watterberg</td>
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### Radiology

**Gary Mlady**  
U.S. Department of Veterans Affairs  
Provide Radiological and Nuclear Medicine Diagnostics and Therapy Services for NMVAHSC FY20  
$3,141,736

New Mexico Department of Health  
BCC Early Detection Program - Specific Supplement  
$33,394

New Mexico Department of Health  
BCC Early Detection Program  
$126,891

### Surgery

**Arup Das**  
Genentech, Inc.  
YOSEMITE GR40349  
$1,178,160

National Eye Institute  
Novel Biomarkers & Genetics of Diabetic Retinopathy  
$512,760

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

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

**Bridget Fahy-Chandon**  
Stanford University  
A Multi-Center Randomized Controlled Trial of Perioperative Palliative Care Surrounding Cancer Surgery for Patients and Their Family Members  
$181,544

Stanford University  
A Multi-Center Randomized Controlled Trial of Perioperative Palliative Care Surrounding Cancer Surgery for Patients and Their Family Members  
$181,544

**Rohini McKee**  
American Society of Colon & Rectal Surgeons  
Brandeis Leadership Health Policy Scholarship  
$2,800

**Jasmeet Paul**  
ACell  
ACell Educational Grant  
$6,000

**John Russell**  
Presbyterian Medical Services  
On-Call Surgical Services  
$34,560

Presbyterian Medical Services  
On-Call Surgical Services  
$13,560

**Joaquin Tosi**  
Genentech, Inc.  
Protocol GR40549 PORTAL  
$3,072,798

Genentech, Inc.  
Protocol GR40548 ARCHWAY  
$2,173,971

### HEALTH SCIENCES LIBRARY & INFORMATICS CENTER

**Patricia Bradley**  
University of North Texas Health Sciences Center  
Growing STEM: A New Mexico Journey  
$10,000

**Stuart Nelson**  
National Library of Medicine  
Feasibility of a Therapeutic Intent Ontology  
$170,438

### OFFICE FOR DIVERSITY, EQUITY & INCLUSION

**Valerie Romero-Leggott**  
Science Education Solutions  
Teen Science Cafe Network Small Grant  
$3,000

### UNM HOSPITAL

**Wendy Hine**  
New Mexico Department of Health  
Provide Case Manager and Junior Accountant Services  
$85,000

**Rodney McNease**  
Bernalillo County  
Provide Housing to Homeless in Criminal Justice System  
$498,726

Bernalillo County  
Provide Housing to Homeless in Criminal Justice System  
$138,411

### Albuquerque Public Schools

**Robert Perry**  
New Mexico Department of Health  
Mass Fatality Planning  
$58,822

New Mexico Department of Health  
Provide Services for Hospital Preparedness  
$49,954

**Suzanne Popejoy**  
New Mexico Children, Youth & Families Department  
UNM Hospitals Young Children Health Center  
$618,500

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

City of Albuquerque  
Early Intervention for Children Services  
$141,503

**Jody Stonehocker**  
New Mexico Department of Health  
Provide Prenatal and Postpartum Clinical, Health Education  
$180,000

**Jennifer Vosburgh**  
Rico Aviation  
Helipad Use Agreement  
$10,000

### UNM MEDICAL GROUP, INC.

**David Rakel**  
Bernalillo County Juvenile Detention Center  
Professional Services  
$136,973
How to Donate to UNM Health Sciences Center Research
Join Us on Our Journey of Discovery

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.

In 2008, the Foundation became a stand-alone organization with expanded fiduciary duties to include fiscal, human resources and treasury functions. All private gifts to the Health Sciences Center are received through the UNM Foundation, which manages contributions to all university programs. The Foundation’s funding model ensures that 100 percent of gifts are directed to the donor’s designated purpose.
UNM HEALTH SCIENCES CENTER

Discovery
Research Annual Report 2019

UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER

TURNING RESEARCH INTO CURES