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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 Research Annual Report 2019

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UNM HEALTH SCIENCES CENTER

VISION

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

MISSION

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

CORE VALUES

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

Research Annual Report 2019

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PAUL B. ROTH, MD, MS

Chancellor for Health Sciences

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. ■



RICHARD S. LARSON, MD, PhD

Executive Vice Chancellor for Health Sciences



CHRISTINE KASPER, PhD, RN

Dean College of Nursing

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. ■



DONALD GODWIN, PhD

Dean College of Pharmacy



TRACIE COLLINS, MD, MPH

Dean College of Population Health

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! ■



MARTHA COLE MCGREW, MD

Executive Vice Dean, School of Medicine

A full-page background image showing a person with curly hair, wearing a dark tank top and blue pants, climbing a large, layered rock face. The climber is positioned on the left side of the frame, with their back to the camera. They are wearing a yellow climbing bag and have a red rope attached to their harness. The rock face is composed of large, horizontal layers of grey and brown stone. The sky is a clear, pale blue. The overall scene conveys a sense of challenge and achievement.

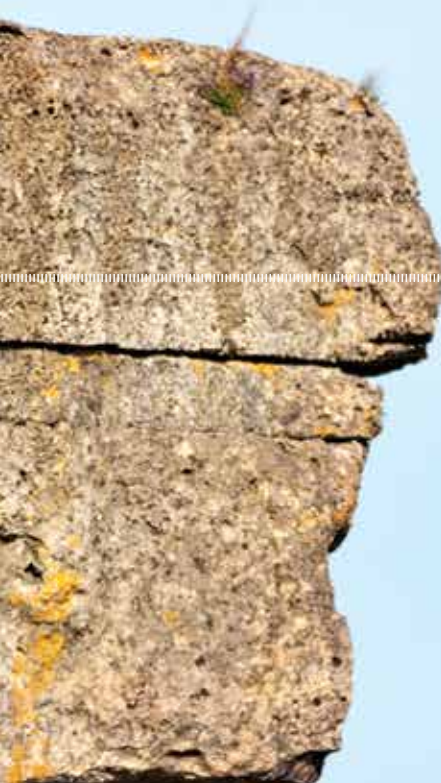
HSC Researchers Come Together to Confront the Grand Challenges

By Michael Haederle

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

REACHING FOR THE TOP



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.



Justin Baca, MD, PhD



Eliseo Castillo, PhD

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 Fietze, 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." ■



Daryl Domman, PhD

Overcoming the Opioid Crisis One Lab at a Time

UNM Scientists Bring Research From Bench to Bedside

By Nicole Maphis

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

Continued on pages 16-17

The tiniest victims of the opioid crisis are exposed to the drugs in utero, and after birth they often experience neonatal opioid withdrawal syndrome.



Ludmila Bakhireva, MD, PhD



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 Fietze, 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, Fietze'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.

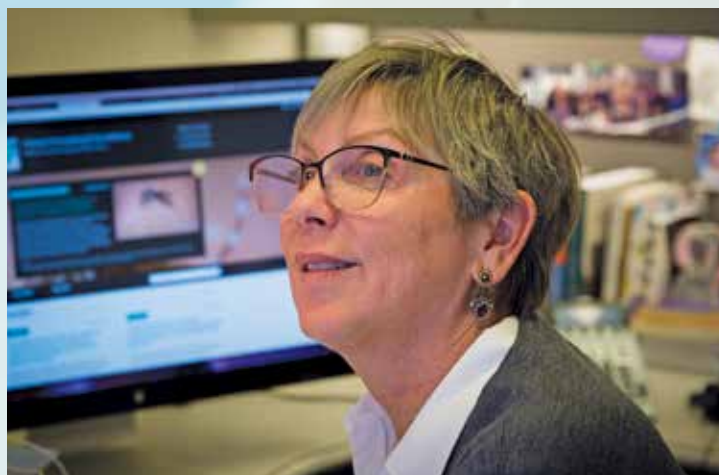
Other work being done on vaccines looks promising, except that these approaches typically require many immunizations because they do not last very long. Because a VLP platform tends to elicit a more robust immune response with fewer required immunizations, they hope their approach would be more useful 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, Fietze 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. ■



Nora Perrone-Bizzozero, PhD



Kimberly Page, MD, MPH



Katherine Fietze, PhD



Christina Salas (left) with Deanna Mercer, MD

Engineering Excellence

Christina Salas Brings Passion and Ingenuity to Developing Novel Technology

By Emily Monteiro Morelli

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

"Dr. Salas' research is cutting-edge and will revolutionize the way orthopedic surgery is performed over the next decade."

— Richard S. Larson, MD, PhD

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 electro-spinning 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. ■

Training Grants 2019



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 Prossnitz, 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



Erica Pascetti, PhD Candidate

T32 Scholar, NIH

Hematopoietic stem and progenitor cells

Mentor: Jennifer Gillette, 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



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)

Eva Chi, 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: Kathryn Fietze, 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. Determining the role of anti-inflammatory cytokine IL-10 in tauopathies, such as Alzheimer's disease

Mentor: Kiran Bhaskar, PhD

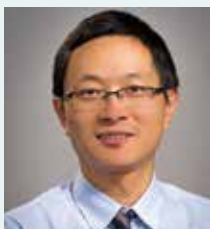


Christine Woods, PhD

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.



(From left to right) Paul B Roth, MD MS, Chancellor for Health Sciences; Lisa Cacari Stone, PhD; Esther Erdei, PhD, MPH; Angela Wandinger-Ness, PhD; Christina Salas, PhD; Thomas Resta, PhD; Richard S. Larson, MD, PhD

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 of trainees in basic, translational and clinical research.



Mark Unruh, MD

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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 OB/GYN \$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

New Mexico Department of Health
*Locum Tenens Program DOH Physician,
PA and NP Services - Specific
Supplement* \$15,413

New Mexico Department of Health
Physician, PA and NP Project \$10,000

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

University of New Mexico Foundation
*Private Gifts for Research
(1st Qtr - FY19)* \$344,862

University of New Mexico Foundation
*Private Gifts for Research
(4th Qtr - FY19)* \$295,297

University of New Mexico Foundation
*Private Gifts for Research
(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

OFFICE OF THE VICE CHANCELLOR FOR RESEARCH

Richard Larson

Lovelace Respiratory Research Institute
*LRRI/BSGP Fellowship Agreement
2018* \$16,788

Lovelace Respiratory Research Institute
*LRRI/BSGP Admin Support Agreement
2018* \$4,737

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
Biomufacturing 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&E* \$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

MaryJane 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

Lovelace 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
*Aqueous-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

Jim Liu

National Institutes of Health
*Arsenic, GATA-1, and Hemato-
 toxicity* \$340,875

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

Debra MacKenzie

Duke University
*Using Silicone Wristbands As Non-Invasive
 Passive Environmental Monitors to Evaluate
 Seasonal and Within-Family Correlation for
 Environmental Exposures* \$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

Santa Clara Pueblo
Kha'po Owingeh RezRIDERS Project \$79,159

Francisco Soto Mas

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

Bernalillo County
Bernalillo County Senior Services
Project \$25,000

McKinley County
McKinley County Project \$31,640

McKinley County
McKinley County Project \$23,730

Kristine Tollestrup

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

Tulane University
ACA - Public Health Training
Centers \$34,400

Nina Wallerstein

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

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

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

Medtronic
UNM Pain Medicine Fellowship FY19-20:
Medtronic \$20,000

John Rask

Vanderbilt University Medical Center
Simulation Multicenter Project \$29,449

Karin Westlund-High

National Institute of Dental and
Craniofacial Research
Scfv Antibody Therapy for Chronic
Trigeminal Neuropathic Pain \$240,500

Biochemistry & Molecular Biology

Oscar Bizzozero

National Multiple Sclerosis Society
Prophylactic and Therapeutic Effects of
Liproxstatin-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

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

National Heart, Lung, and Blood Institute
R01 Renewal Vascular Smooth
Muscle Function in Pulmonary
Hypertension \$378,750

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

National Heart, Lung, and Blood Institute
Diversity Supplement Minority Institutional
Research Training Program (T32) \$7,565

Comprehensive Cancer Center

Sarah Adams

National Cancer Institute
Mechanisms of Selective Therapeutic Synergy
of PARP-Inhibition and CTLA4 Blockade
Engaged by Interferon-gamma in the
Ovarian Tumor Microenvironment \$361,703

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 \$100,000

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

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

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

Ursa Brown-Glaberman

New Mexico Cancer Care Alliance
Clinical Trial Phase 3 \$107,080

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 Breckenridge

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

New Mexico Department of Health New Mexico First Responder ECHO Program	\$115,000	University of Kentucky Partnership With the University of Kentucky and Gilead for Quality HCV Care - Continuation	\$25,000	Department of the Air Force UNM Educational Service Agreement FY19	\$518,760
Northwest Portland Area Indian Health Board Indian Health Services TeleECHO Clinic Support	\$100,000	Region IX Education Cooperative New Mexico Public Education Department Education ECHO	\$20,000	City of Albuquerque Medical Directorship	\$406,250
Albuquerque Area Indian Health Board, Inc. Leveraging Project ECHO for a Comprehensive Approach to Health and Wellness in Indian Country	\$94,500	Four Seasons Four Seasons Palliative Care Grant	\$12,500	Department of the Air Force UNM Educational Service Agreement	\$389,070
American Institutes for Research AIR Medication-Assisted Treatment - Continuation Yr 3	\$94,350	Indiana University Indiana PEP Program	\$8,000	City of Albuquerque Professional Services- Medical Directorship	\$187,500
Albuquerque Area Indian Health Board, Inc. Tribal Epidemiology Centers	\$85,000	Northwest Portland Area Indian Health Board Support for Endocrinology Pilot	\$7,560	Bernalillo County Fire Department Medical Directorship	\$63,053
Seattle Indian Health Board Project ECHO Supporting the Enhanced Implementation of Health and Wellness	\$75,000	Emergency Medicine			
American Society of Addiction Medicine FAME Clinic	\$70,001	Danielle Albright New Mexico Crime Victims Reparation Commission Coordination of the Domestic Violence Death Review Team	\$96,000	State of New Mexico Medical Directorship for TEMS Program	\$55,000
Tanzania Health Promotion Support Leveraging the ECHO Model to Improve Lab Services in Tanzania	\$57,890	Justin Baca Abbott Point of Care Inc. CS-2018-011 Clinical Evaluation of the I-STAT Ionized Calcium and Lactate Tests in Venous and Arterial Specimens	\$140,848	City of Albuquerque Professional Services Agreement	\$50,000
New Mexico Department of Health TB Border Health	\$50,000	Abbott Laboratories Inc. CS-2017-0006: Clinical Evaluation of the I-STAT System for Hematocrit in Venous and Arterial Specimens	\$85,296	Department of the Air Force UNM Educational Service Agreement	\$48,000
Bernalillo County Bernalillo County Re-Entry ECHO PHASE 2	\$35,000	Abbott Laboratories Inc. CS-2017-0007 Clinical Evaluation of I-STAT PTplus/aPTT Cartridge for APTT in Subjects Receiving Heparin Therapy	\$81,316	Department of the Air Force UNM Educational Service Agreement FY19	\$48,000
Health Research Inc. ECHO Partnership for Quality Improvement Innovations in HIV Care	\$31,500	Abbott Laboratories Inc. CS-2017-0007 Clinical Evaluation of I-STAT PTplus/aPTT Cartridge for APTT in Subjects Receiving Heparin Therapy	\$3,519	Department of the Air Force UNM Educational Service Agreement FY19	\$48,000
Laura and John Arnold Foundation Impact of Opioid ECHO Programs on Health and Health Care - Specific Supplement	\$30,230	Laura Banks New Mexico Department of Transportation Pedestrian Safety Initiative	\$300,000	Western Refining Southwest, Inc. Medical Directorship	\$33,000
African Society for Laboratory Medicine ECHO Institute Collaboration With the African Society of Laboratory Medicine - Continuation	\$30,000	New Mexico Department of Health Hospital and Health Systems Preparedness	\$99,698	Sandoval County Regional Emergency Communications Center Medical Director Services	\$28,368
New Mexico Department of Health Anti-Microbial Stewardship	\$27,003	New Mexico Senior Olympics National Senior Games	\$12,000	Wilderness Medics Inc Medical Director	\$25,000
New Mexico Department of Health New Mexico DOH Sponsorship of NM AETC Conference	\$25,000	Darren Braude Department of the Air Force UNM Educational Service Agreement	\$518,760	County of Bernalillo Professional Services	\$19,999
University of Kentucky Partnership With the University of Kentucky and Gilead for Quality HCV Care	\$25,000	Department of the Air Force UNM Educational Service Agreement FY19	\$518,760	K&I Field Services Medical Direction and Care	\$12,500
New Mexico Department of Health New Mexico DOH - Tuberculosis Project ECHO FY2019	\$25,000			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 Directorship	\$6,000
				Motion Picture Set Medics, LLC Motion Picture Set Medics, LLC	\$2,640

Kirtland Air Force Base CE Package Course - August	\$2,460
Kirtland Air Force Base CE Package Course - May	\$1,775
Sandia Crest Marathon Medical Directorship	\$1,550
Kirtland Air Force Base 2018 CE Package Course 009	\$1,175
Quick Draw Medical Directorship	\$880

Joy Crook

New Mexico Department of Health
NM DOH Statewide EMS Project \$50,000

Jon Kenneth Femling

Yes Biotechnology Inc.
Pilot Study of Strep Device for the
Diagnosis of Group A Streptococcal
Pharyngitis \$205,500

Sandia National Laboratories
Rim-to-Rim Continuation 2018-2019
Yr 3 \$55,740

Duke University
Multi-Center, Randomized, Open-Label Trial
to Evaluate the Efficacy of Oral Fosfomycin
Versus Oral Levofloxacin Strategies in
Complicated Urinary Tract Infections \$8,000

Olive View Medical Center-UCLA
EMERGENCY IDnet:Emergency Department
Sentinel Network for Surveillance of Emerging
Infections \$6,000

Olive View Medical Center-UCLA
EMERGENCY IDnet:Emergency Department
Sentinel Network for Surveillance of Emerging
Infections \$1,000

Andrew Harrell

National Park Service
Grand Canyon Medical Direction \$36,000

Department of the Air Force
Nellis Air Force Base PJ Refresher \$18,400

National Park Service
Grand Canyon National Park - EMS Medical
Services - Continuation \$6,000

Steven McLaughlin

New Mexico State Fair
Emergency Medical Services &
Directorship \$53,983

Taos County
Medical Directorship \$36,000

Grace (Joo-Hee) Park

The Mind Research Network
The Impact of Diffuse Mild Brain Injury on
Clinical Outcomes in Children \$84,252



The Mind Research Network
The Impact of Diffuse Mild Brain Injury on
Clinical Outcomes in Children \$79,544

University of Michigan
RNA Biosignatures: A Paradigm Change for
the Management of Young Febrile Infants
(Phase 1) \$10,551

Aaron Reilly

Trans-Pecos Ultra
Medical Directorship \$2,000

Robert Sapien

Health Resources and Services
Administration
Child Ready: Expanding a Novel Community
Self-Assessment Approach to Regionalization
(EMSC Demonstration Grants) \$200,000

University of Arizona
EMSC: Pediatric Emergency Care Applied
Research Network \$154,263

HRSA/Maternal and Child Health Bureau
EMSC Partnership Grants \$130,000

HRSA/Maternal and Child Health Bureau
EMSC Partnership Grants - PECC Learning
Collaborative \$100,000

Health Resources and Services
Administration
Child Ready: Expanding a Novel Community
Self-Assessment Approach to Regionalization
(EMSC Demonstration Grants) \$94,700

Health Resources and Services
Administration
Child Ready: Expanding a Novel Community
Self-Assessment Approach to Regionalization
(EMSC Demonstration Grants) \$93,704

Health Resources and Services
Administration
EMS for Children State Partnership
Grant \$68,445

Nationwide Children's Hospital
C-Spine \$60,300

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
Intensive 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 CoIIN \$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 Rhyné
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
Sentien Biotechnologies Inc.
SBI-101-01: A Multicenter, Randomized, Sham-
Controlled, Double-Blind, Ascending-Dose
Study of Extracorporeal Mesenchymal Stromal
Cell Therapy (SBI-101 Therapy) in Subjects
With Acute Kidney Injury Receiving Continuous
Renal Replacement Therapy \$111,360

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

Dialysis Clinic, Inc.
TRILO2GY Start Up Payment \$870

Cristian Bologna
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

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

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

Defense Threat Reduction Agency
Effects of Differential Glycosylation
on Filovirus Glycoprotein
Immunogenicity \$92,286

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



Suzanne Emil

Iqvia
IFX-1-P2.6: A Randomized, Double-Blind, Placebo-Controlled, Multicenter, Parallel-Group Phase 2 Study to Investigate the Safety and Efficacy of IFX-1 in Subjects With Granulomatosis With Polyangiitis and Microscopic Polyangiitis \$156,608

Mark Garcia

Duke University
Care Optimization Through Patient and Hospital Engagement Clinical Trial for Heart Failure - Y2 \$103,200

Melissa Gonzales

Utah State University
Harm Reduction Curricula for Substance Use \$18,362

Michelle Harkins

Cystic Fibrosis Foundation
Cystic Fibrosis Care Center Program \$65,090

Theresa Heynekamp

Zambon
PROMIS II - A Double-Blind, Placebo-Controlled, Multi-Center Clinical Trial to Investigate the Efficacy and Safety of 24 Months of Therapy With Inhaled Colistimethate Sodium in Treatment of Subjects With Non-Cystic Fibrosis Bronchiectasis \$160,000

Michelle Iandiorio

Health Resources and Services Administration
Comprehensive HIV Early Intervention Services (Ryan White Part C) \$718,561

New Mexico Department of Health
HIV Provider Agreement w/BAA \$709,215

HRSA/HIV-AIDS Bureau
Ryan White HIV/AIDS Program Part D Coordinated HIV Services and Access to Research for Women, Infants, Children, and Youth \$466,950

Julie In

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

National Institute of Diabetes and Digestive and Kidney Diseases
Human Enteroids As a Model of Host-EHEC Interactions \$86,614

National Institute of Diabetes and Digestive and Kidney Diseases
Human Enteroids As a Model of Host-EHEC Interactions \$109

Saeed Kamran Shaffi

Alnylam Pharmaceuticals Inc.
Protocol ALN-LECT2-NT-001: A Study of the Natural History of Leukocyte Chemotactic Factor 2 Amyloidosis (ALECT2) Disease \$166,400

Patricia Kapsner

Cortendo AB
Protocol COR-2017-OLE: An Open-Label Extension Study of Levoketconazole (2s,4r-ketoconazole) in the Treatment of Endogenous Cushing's Syndrome \$57,600

Novo Nordisk, Inc.
Clinical Trial Agreement Phase 3 - Y6 \$34,456

Denece Kesler

HRSA/Bureau of Health Workforce
Preventive Medicine Residency Program - Y2 \$399,992

HRSA/Office of Rural Health Policy
Radiation Exposure Screening Education Program \$242,525

Johns Hopkins University
Development of a Medical Screening Program for Former LANL & Sandia Workers \$5,000

Miriam Komaromy

American Society of Addiction Medicine
ASAM/FAME \$177,705

Olga Kovbasnjuk

University of Maryland, Baltimore County
Pathogenesis of E. Coli and Shigella Infections in Human Enteroid Models \$204,139

Baylor College of Medicine
Intestinal Stem Cell Response to Infection \$79,604

University of Washington
A Microphysiological System for Kidney Disease Modeling and Drug Efficacy Testing \$37,875

Samuel Lee

U.S. Department of Veterans Affairs
IPA - Stella Jubay \$11,356

Lana Melendres-Groves

Pharmaceutical Research Assoc.
Clinical Trial - Phase 4 \$157,824

Lung Biotechnology PBC
RIN-PH-304: Phase 3, Randomized, Placebo-Controlled, Double-Blind, Adaptive Study to Evaluate the Safety and Efficacy of Inhaled Treprostinil in Patients With Pulmonary Hypertension Due to Chronic Obstructive Pulmonary Disease \$140,800

Reata Pharmaceuticals Inc.
Protocol 402-c-1504: A Study of the Efficacy and Safety of Bardoxolone Methyl in Patients With Connective Tissue Disease-Associated Pulmonary Arterial Hypertension \$123,672

Arena Pharmaceuticals Inc
APD811-301: A Study EVALuatiNg the Efficacy and Safety of Ralinepag to Improve Treatment OUTCOMES in PAH Patients \$115,200

Complexa
CXA-10-301: Phase 2 Multicenter, Double-Blind, Placebo-Controlled, Efficacy, Safety and Pharmacokinetic Study of Two Doses of CXA-10 on Stable Background Therapy in Subjects With Pulmonary Arterial Hypertension \$114,944

Arena Pharmaceuticals Inc.
APD811-303: A Study EVALuatiNg the Long-Term Efficacy and Safety of Ralinepag in Subjects With PAH Via an Open-Label EXTENSION \$102,400

United Therapeutics Corporation
Phase 1 Clinical Trial: Inhaled Treprostinil in Subjects With Pulmonary Hypertension \$57,600

Gregory Mertz

Metabiota
Prevalence of Crimean Congo Hemorrhagic Fever Virus and Hantaviruses in Ukraine and the Potential Requirement for

Differential Diagnosis of Suspect Leptospirosis Patients	\$30,161	University of California, San Francisco STI-CTG	\$28,980	National Institute of Diabetes and Digestive and Kidney Diseases Diabetes Prevention Program (DPPOS)- Phase 3	\$27,095
Larissa Myaskovsky University of Pittsburgh Increasing Equity in Transplant Evaluation and Living Donor Kidney Transplantation	\$87,929	Vernon Pankratz Dialysis Clinic, Inc. Professional Services Agreement - Biostatistician Services	\$52,606	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
Dialysis Clinic, Inc. No-Shows for Kidney Transplant Evaluation Study	\$37,901	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	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
University of Pittsburgh Cardiac Resynchronization in the Elderly: Piloting Pacemaker vs. Defibrillator Therapy	\$14,836	John E. Fogarty International Center for Advanced Study in the Health Sciences Training and Research on Severe Malarial Anemia	\$267,968	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
Yue-Harn Ng Dialysis Clinic, Inc. Kidney: To Take or Not to Take?	\$249,186	Harvard School of Public Health Fogarty Global Health Training Fellowship Program	\$42,130	Case Western Reserve University EDIC Skeletal Health Study (SSY8)	\$5,555
Dialysis Clinic, Inc. Adherence in Kidney Transplant Study	\$47,292	Los Alamos National Laboratory Diagnostics for Pediatric Tuberculosis	\$40,000	University of South Florida Type I Diabetes Trialnet	\$650
Tudor Oprea National Institutes of Health Knowledge Management Center for Illuminating the Druggable Genome	\$1,000,000	Surya Pierce The Bell Group, Inc. Professional Services: UNM Center for Life	\$12,000	University of South Florida Type I Diabetes Trialnet	\$310
National Institutes of Health Machine Learning Model Validation for AD/ADRD	\$378,750	Fares Qeadan Albuquerque Area Indian Health Board, Inc. Indian Tribal Health Data in the Southwest Region: Transformation, Management and Analyses	\$116,358	Melissa Schiff New Mexico Governor's Commission on Disability Incidence Rates of TBI in New Mexico	\$35,000
The Jackson Laboratory Illuminating the Druggable Genome by Knowledge Graphs	\$121,200	Albuquerque Area Indian Health Board, Inc. Large Tribal Health Data in the Southwest Region: Transformation, Management and Analyses	\$37,432	Mark Sheldon U.S. Department of Veterans Affairs Interventional Cardiology Services at the VA	\$408,161
University of Copenhagen Visiting Scientist Agreement	\$52,875	David Schade George Washington University Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study Year 7	\$672,584	Akshay Sood National Institutes of Health Effectiveness of Innovative Research Mentor Interventions Among Underrepresented Minority Faculty in the Southwest	\$701,440
East Carolina University, Brody School of Medicine Ligand Specificity in Human Glucose Trans- porters GLUT1-5 and GLUT9 - Y2	\$50,607	National Institute of Diabetes and Digestive and Kidney Diseases Diabetes Prevention Program (DPPOS)- Phase 3 - Y26	\$313,764	Miners Colfax Medical Center Medical Consultation and Care	\$152,342
University of North Carolina A Collaboration for the NIH Data Commons	\$32,500	Case Western Reserve University Epidemiology of Diabetes Intervention and Complications	\$126,549	Miners Colfax Medical Center Medical Consultation and Care	\$34,122
Kimberly Page National Institute on Drug Abuse New Mexico Clinical Trials Node: Clinical Research and Practice to Address Substance Use in Diverse, Rural and Underserved Populations	\$2,751,799	Case Western Reserve University Epidemiology of Diabetes Intervention and Complications and Hypoglycemia-Arrhythmia Study - Supplement	\$29,647	Miners Colfax Medical Center Medical Consultation and Care - Y3	\$34,122
National Institute on Drug Abuse Acute Hepatitis C Infection in Young Injectors	\$1,268,832			QTC Medical Group Second Medical Opinion Evaluations FY19	\$25,000
Upstate Affiliate Organization Patient-Centered Models of Hepatitis C Care for People Who Inject Drugs - Continuation Y2	\$429,986			Miners Colfax Medical Center An Innovative Approach to Increasing Access to Miners in the Mountain West	\$21,517

Miners Colfax Medical Center
Medical Consultation and Care \$12,500

Elaine Thomas

New Mexico Department of Health
Sexually Transmitted Disease
Clinical Services w/ BAA \$40,512

Mark Unruh

Anonymous Non-Profit Foundation
Medical Directorship - Evergreen \$1,181,620

Anonymous Non-Profit Foundation
Medical Directorship and QA \$1,181,620

University of Pittsburgh
Technology-Assisted Stepped Collaborative
Care Intervention to Improve Patient-
Centered Outcomes in Hemodialysis
Patients \$217,743

University of Washington
Treatment Options for Insomnia
for ESRD \$123,330

Anonymous Non-Profit Foundation
Medical Directorship and QA \$67,900

Anonymous Non-Profit Foundation
Medical Directorship - Evergreen \$67,900

Anonymous Non-Profit Foundation
Medical Directorship - Evergreen \$67,900

Albuquerque Area Indian Health Service
Nephrology and Rheumatology IHS Specialty
Services \$67,595

Emory University
Advanced Care Planning for Dialysis
Patients and Surrogates: An Effectiveness-
Implementation Trial of SPIRIT in
ESRD \$65,560

University Of Pennsylvania
Data Coordinating Center for Hemodialysis
Pilot Studies Consortium (ACTION) \$56,853

St. Catherine Healthcare and
Rehabilitation Center
Medical Director Services \$41,472

St. Catherine Healthcare and
Rehabilitation Center
Medical Director Services \$41,472

Lovelace Respiratory Research Institute
Occupational and Environmental Health
Clinical Services \$25,000

Lovelace Respiratory Research Institute
Occupational Environmental Health Clinical
Services \$25,000

Honeywell Aerospace
Professional Occupational Medical
Services \$6,658



Cara Therapeutics, Inc.
Consulting Agreement - Cara
Therapeutics \$6,400

Steven (Bruce) Williams

HRSA/HIV-AIDS Bureau
Ryan White HIV/AIDS Program Part D
Coordinated HIV Services and Access to
Research for Women, Infants, Children,
and Youth \$492,914

HRSA/HIV-AIDS Bureau
Ryan White HIV/AIDS Program Part D
Coordinated HIV Services and Access to
Research for Women, Infants, Children,
and Youth \$135,271

Molecular Genetics & Microbiology

Judy Cannon

Tau Technologies
Interacting Swarms of Agents: From
Immunology to Social Media -
Continuation \$215,456

Bryce Chackerian

National Institutes of Health
A Nanoparticle-Based Vaccine Targeting
PCSK9 \$580,797

Henry M. Jackson Foundation
Epitope-Based Vaccines for Neisseria
Gonorrhoeae \$279,243

National Institutes of Health
Opioid Vaccine Development Using
Bacteriophage Virus-Like Particle
Immunogens - Admin Supplement \$251,499

Massachusetts General Hospital
Innate-Like BCR Activity As a Template
for Universal Vaccination Against
Influenza Virus \$154,019

Massachusetts General Hospital
CDRH3-Independent B Cell Stimulation to

Selectively Expand VRC01 Lineages From a
Fully Humanized Immunoglobulin Repertoire
- Continuation (Year 3) \$80,457

Vojo Deretic

National Institute of General Medical
Sciences
Autophagy, Inflammation and Metabolism
in Disease Center \$2,224,034

National Institutes of Health
Autophagy Against Tuberculosis and
HIV \$744,529

National Institute of Allergy and Infectious
Diseases
Pattern Recognition Receptors and Autophagy
in Mtb Control in AIDS \$493,666

Michael Mandell

National Institute of Allergy and Infectious
Diseases
Prevention of HIV-Induced T Cell Killing
by Autophagy \$224,160

Mary Ann Osley

National Institute on Aging
Functional Analysis of Cellular
Quiescence \$310,575

Michelle Ozbun

Janssen Pharmaceutical
Infectious Transmission of Human
Papillomavirus From Patient
Samples \$514,893

National Cancer Institute
Mechanisms of Infection by Oncogenic
HPVs \$335,528

American Cancer Society
MEK/ERK Signaling: An Achilles' Heel for
HPV-Induced Tumorigenesis \$240,000

National Institutes of Health
Sex-Based Differences in Oral HPV Infections
and Outcomes \$227,250

National Cancer Institute
*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

PPD Development
*Clinical Trial Agreement Phase 3
 (Sub-Study)* \$203,093

Novartis Pharmaceuticals Corporation
*Protocol OMB157G2399: An Open-Label,
 Single-Arm, Multi-Center Extension Study
 Evaluating Long-Term Safety, Tolerability and
 Effectiveness of Ofatumumab in Subjects
 With Relapsing Multiple Sclerosis* \$180,901

Adamas Pharmaceuticals, Inc.
*ADS-AMT-MS303: A Multicenter, Open-
 Label Safety and Efficacy Study of ADS-5102
 Amantadine Extended Release Capsules in
 Patients With Multiple Sclerosis and Walking
 Impairment* \$45,667

University of Southern California
*Acculturation, Genetic Ancestry, and
 Disability in Hispanic Americans With Multiple
 Sclerosis Phase 4 - Continuation* \$39,722

University of Southern California
*Acculturation, Genetic Ancestry, and
 Disability in Hispanic Americans With
 Multiple Sclerosis Phase 4 Clinical
 Trial* \$39,154

Tobias Kulik
 University of Cincinnati
*Multi-Arm Optimization of Stroke
 Thrombolysis Stroke Trial* \$58,219

Surojit Paul
 National Institute of Neurological
 Disorders and Stroke
*Role of Brain-Specific Tyrosine Phosphatase
 STEP in Neuroprotection and Death -
 FY20* \$503,383

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
MRN Medical Director \$50,373

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

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

The Mind Research Network
MDA Core-COBRE III \$13,935

Michel Torbey
 The Mind Research Network
*MRN Administrative Operations -
 FY20* \$20,860

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

Carlos Valenzuela National Institute on Alcohol Abuse and Alcoholism <i>Alcohol and Developing Neuronal Circuits (MERIT AWARD)</i> \$378,750	Cibola General Hospital <i>Hospital Service Agreement (ACCESS)</i> \$125,000	New Mexico Department of Health <i>Provide Risk-Appropriate Prenatal Medical Services to Medically Indigent Women in New Mexico With Obstetrical and/or Medical Complications</i> \$54,960
	Holy Cross of Taos <i>Hospital Service Agreement (ACCESS)</i> \$125,000	Albuquerque Area Indian Health Service <i>OBGYN IHS Specialty Services</i> \$36,244
National Institute on Alcohol Abuse and Alcoholism <i>Alcohol Research Training in Neurosciences</i> \$158,588	Alta Vista Regional Hospital <i>Master Hospital Agreement (ACCESS)</i> \$125,000	New Mexico Department of Health <i>Certified Nurse Midwife Contractor Project w/BAA</i> \$25,000
Tou Yia Vue National Institute of Neurological Disorders and Stroke <i>Underlying Molecular Mechanisms of Gliogenesis and Gliomagenesis in the CNS</i> \$240,594	Union County General Hospital <i>Master Hospital Agreement (ACCESS)</i> \$125,000	Anonymous Non-Profit Foundation <i>Fellowship in Family Planning</i> \$979
	Rehoboth McKinley Christian Health Care Services <i>Master Hospital Agreement (ACCESS)</i> \$125,000	New Mexico Department of Health <i>Certified Nurse Midwife Contractor Project w/BAA - Specific Supplement</i> \$316
Jason Weick Clemson University <i>R11 Track-2 FEC: The Creation of Next-Generation Tools for Neuroscience</i> \$232,758	Los Alamos Medical Center <i>Master Hospital Agreement (ACCESS)</i> \$125,000	Lisa Hoffer New Mexico Department of Health <i>Tubal Ligation Sterilization (Multi-Year)</i> \$202,560
	San Juan Regional Medical Center <i>Master Hospital Agreement (ACCESS)</i> \$125,000	New Mexico Department of Health <i>Family Planning and Vasectomy</i> \$72,228
Neurosurgery	Lovelace Health System <i>Master Hospital Agreement (ACCESS)</i> \$125,000	University of California, San Francisco SWS \$6,000
Andrew Carlson Polyganics <i>Professional Services Agreement</i> \$10,000	Nor-Lea General Hospital <i>Master Hospital Agreement (ACCESS)</i> \$25,000	RAD <i>Cost of Care</i> \$5,000
	Obstetrics & Gynecology	Yuko Komesu Research Triangle Institute <i>Human Microbiome Study-ESTEEM (PFDN Capitation)</i> \$310,000
Rex Jung Johnson O'Connor Research Foundation <i>The Neuroscience of Aptitude - Continuation</i> \$66,825	Gillian Burkhardt Hopewell Funds Gynuity RAD \$39,412	Cook Myo Site <i>Protocol 15-06: CELLEBRATE: An Adaptive, Two-Stage, Double-Blind, Stratified, Randomized, Controlled Trial Comparing the Safety and Efficacy of AMDC-USR With Placebo in Female Subjects With Stress Urinary Incontinence</i> \$154,894
	Conrad Chao New Mexico Department of Health <i>High-Risk Prenatal Care</i> \$82,460	Jamie Krashin Society of Family Planning <i>Post-Fellowship Salary Support</i> \$113,152
Jeremy Lewis InVivo Therapeutics Corporation <i>Invivo-100-105: Invivo-100-105: Randomized, Controlled, Single-Blind Study of Probable Benefit of the Neuro-Spinal Scaffold™ for Safety and Neurologic Recovery in Subjects With Complete Thoracic AIS a Spinal Cord Injury As Compared to Standard of Care</i> \$94,130	Eve Espey New Mexico Department of Health <i>Family Planning & STD Services Project</i> \$551,166	Society of Family Planning <i>Lacto-rod</i> \$15,000
	Anonymous Non-Profit Foundation <i>Fellowship in Family Planning</i> \$401,729	Brenda Pereda Anonymous Non-Profit Foundation <i>Addressing Racism and Inequity in Family Planning Care</i> \$232,582
Edwin Nemoto Kinesio Taping Association International <i>Kinesio Taping in Medical Applications</i> \$53,900	St. Vincent Hospital/Richard M. Angle Cancer Treatment <i>Professional Services</i> \$307,409	Anonymous Non-Profit Foundation <i>Addressing Racism and Inequity in Family Planning Care</i> \$29,997
	St. Vincent Hospital/Richard M. Angle Cancer Treatment <i>Professional Services</i> \$300,000	
Peter Shin Eastern New Mexico Medical Center <i>Master Hospital Agreement (ACCESS)</i> \$125,000	Christus St. Vincent Regional Medical Center <i>Professional Services - Auto-Renew</i> \$235,391	
	First Choice Community Healthcare <i>Professional Services</i> \$86,649	
Howard Yonas Presbyterian Healthcare Services <i>Professional Services/Consultations</i> \$402,000		
Miners Colfax Medical Center <i>Master Hospital Agreement (ACCESS)</i> \$125,000		
Memorial Medical Center <i>Master Hospital Agreement (ACCESS)</i> \$125,000		

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
2018 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 \$30,143

New Mexico Department of Health
FY19 NM Non-Pending Toxicology Specimen
Support \$26,638

U.S. Department of Justice
FY19 Expert Witness Agreements \$25,000

Lovelace Health System
FY19 Lovelace Health System - Autopsy
(Billing Through NSAR) \$8,000

U.S. Department of Veterans Affairs
VA 2018 - 2019 Non-Forensic Autopsy
Services \$120

Lori Proe

New Mexico Crime Victims Reparation
Commission
OMI Grief Services 2019 \$104,683

National Center for Chronic Disease
Prevention and Health Promotion
OMI UNM SUID SDY Application \$59,800

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 Diaphysal
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

Stryker 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

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

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

Bruce Edwards

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





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 Sections: Professional
Services \$22,500

Aaron Neumann

National Institutes of Health
Nano and Microscale Molecular
Machines for Innate Immune Sensing
of Candida \$358,138

University of Texas at El Paso
Elucidation of Structures and Functions of

Lipid Rafts in Giardia by Super Resolution
Imaging \$30,000

Samuel Reynolds

TriCore Reference Laboratories
PSA: Clinical Performance of CIntec PLUS
Cytology on the VENTANA Benchmark
ULTRA Instrument for Identification of High-
Grade Cervical Disease When Used As
a Reflex Test in High-Risk HPV-Positive
Women \$42,105

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 \leq 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

Darrell Dinwiddie

University of Washington
Admin Supplement for MLVP \$75,750

Elif Dokmeci

AbbVie
M16-049: An Open-Label, Multiple-Dose Study to Evaluate the Pharmacokinetics, Safety and Tolerability of Upadacitinib in Pediatric Subjects With Severe Atopic Dermatitis \$175,703

Sandra Heimerl

HRSA/Maternal and Child Health Bureau
New Mexico LEND: Leadership Education in Neurodevelopmental Disabilities \$661,653

HRSA/Maternal and Child Health Bureau
New Mexico LEND: Leadership Education in Neurodevelopmental Disabilities \$339,361

HRSA/Maternal and Child Health Bureau
New Mexico LEND: Leadership Education in Neurodevelopmental Disabilities \$293,801

New Mexico Developmental Disabilities Planning Council
New Mexico LEND Legislative Advocacy Workshop \$2,500

Andrew Hsi

New Mexico Department of Health
DDSD FIT (FOCUS) \$66,000

Lauren Jantzie

Army Medical Research Acquisition Activity
Mechanisms and Non-Surgical Treatment of Acquired Symptomatic Hydrocephalus \$1,126,208

Patricia Keane

New Mexico Human Services Department
CHILE Plus \$305,063

Alberta Kong

Janssen Research & Development, LLC
28431754DIA3018: A Randomized, Multicenter, Double-Blind, Parallel-Group, Placebo-Controlled Study to Investigate the Efficacy and Safety of Canagliflozin in Children and Adolescents (≥ 10 to <18 Years) With Type 2 Diabetes Mellitus \$93,044

Brindle Foundation
Optimizing Care for Neonatal Opioid Withdrawal Syndrome in Rural New Mexico \$25,000

Klein Buendel

Web App
Technology for Boys and Parents: Improving HPV Vaccine Uptake \$23,882

New Mexico Public Education Department
Improving Student Health and Academic Achievement Through Nutrition, Physical Activity and the Management of Chronic Conditions in Schools \$20,000

John Kuttesch

St. Baldrick's Foundation
Improving Access to Clinical Research Trials \$60,000

Children's Hospital of Philadelphia
Per Case Reimbursement Clinical Rider-Industry Work Order, PH II, PH+ALL - Continuation \$54,300

Children's Hospital of Philadelphia
Phase 3 Clinical Trial - Industry \$12,800

Jean Lowe

University of California, San Francisco
High-Dose Erythropoietin for Asphyxia and Enciphalopathy CCC Project - Continuation \$23,196

University of California, San Francisco
High-Dose Erythropoietin for Asphyxia and Enciphalopathy CCC Project - Specific Supplement \$10,462

University of Washington
Preterm Epo Neuroprotection Trial CCC: Capitation \$10,100

University of Washington
Preterm Epo Neuroprotection Trial CCC \$5,000

University of Washington
Preterm Epo Neuroprotection Trial CCC \$5,000

Peggy MacLean

Erikson Institute
Erikson Institute FBN ECHFS FY19 \$8,700

Ksenia Matlawska-Wasowska

National Institutes of Health
The Roles of SOCS5 in T-ALL Migration and Tissue Infiltration \$343,258

Jane McGrath

New Mexico Department of Health
Long-Acting Reversible Contraception Training and Stocking Project - Continuation \$250,000

New Mexico Department of Health
Long-Acting Reversible Contraception Training and Stocking Project \$162,875

Santa Fe Community Foundation
New Mexico Early Childhood Funders Group - LARC Mentoring Program \$150,000

New Mexico Department of Health
Long-Acting Reversible Contraception Training and Stocking Project - Specific Supplement \$87,125

Santa Fe Community Foundation
LARC Mentoring Program \$60,000

Santa Fe Community Foundation
New Mexico Early Childhood Funders Group - LARC Mentoring Program - Non-Specific Supplement \$52,000

Santa Fe Community Foundation
New Mexico Early Childhood Funders Group - LARC Mentoring Program - Non-Specific Supplement \$20,000

Marcia Moriarta

New Mexico Children, Youth & Families Department
ACA-CYFD Nurse Family Partnership PAT \$3,035,053

New Mexico Department of Health
DOH Autism Programs \$2,774,040

New Mexico Human Services Department
Improving Quality (75/25 & 50/50 Medicaid Match) Supporting Child Development Through Evidence-Based Practices \$2,000,000

New Mexico Human Services Department
Improving Quality (75/25 & 50/50 Medicaid Match) Supporting Child Development Through Evidence-Based Practices \$2,000,000



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 \$546,235

New Mexico Department of Health
Early Childhood Network \$534,900

Falling Colors Corporation
Infant Mental Health Community of
Practice \$400,000

Irving Harris Foundation
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 Statewide Training Database \$111,607

New Mexico Department of Health
Project SET \$106,191

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 NRN \$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

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

New Mexico Public Education Department
PED 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



Vertex Pharmaceuticals, Inc.
VX17-445-105: A Phase 3, Open-Label Study Evaluating the Long-Term Safety and Efficacy of VX445 Combination Therapy in Subjects With Cystic Fibrosis Who Are Homozygous or Heterozygous for the F508del Mutation \$49,033

Celtaxsys
Clinical Trial Agreement - Phase 2 - Continuation \$42,424

Vertex Pharmaceuticals, Inc.
Phase 3 Clinical Trial \$41,000

Duke University
Pharmacokinetics and Safety of Anesthetics and Analgesics in Children \$37,875

Vertex Pharmaceuticals, Inc.
VX17-445-102: A Phase 3, Randomized, Double-Blind, Controlled Study Evaluating the Efficacy and Safety of VX-445 Combination Therapy in Subjects With Cystic Fibrosis Who Are Heterozygous for the F508del Mutation and a Minimal Function Mutation \$31,744

AstraZeneca Pharmaceuticals, LP
Protocol D3250c00045: Multicenter, Randomized, Double-Blind, Par of Benralizumab Group, Placebo-Controlled, Phase3b Study to Evaluate the Safety and Efficacy of 30mg Sc in Patients With Severe Asthma Uncontrolled on Standard of Care Treatment \$20,110

University of Utah
Multicenter Validation of Predictive Sputum Biomarkers in CF \$2,000

Mary Ramos
 Conrad N. Hilton Foundation
SBIRT in School-Based Health Centers in New Mexico \$750,000

HBSA
New Mexico School-Based Health Center Evaluation \$39,838

New Mexico Department of Health
DOH Clinical Support for Provision of Family Planning, Pregnancy Testing and Sexually Transmitted Infection \$36,280

Pacific Institute for Research & Evaluation
Implementing School Nursing Strategies to Reduce LGBTI Adolescent Suicide \$20,000

Leslie Strickler
 New Mexico Crime Victims Reparation Commission
Para Los Ninos CVRC \$352,600

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

New Mexico Crime Victims Reparation Commission
Victims of Crime Act - ACCESS \$72,064

U.S. Department of Justice
Expert Witness Contract - Farnham \$11,203

U.S. Department of Justice
US DOJ - U.S. v. Duran \$9,900

U.S. Department of Justice
Expert Witness Contract - Soseeah \$6,673

Nicole Urrea
 Duke University
BMS01 PK & Safety of Commonly Used Drugs in Lactating Women & Breastfed Infants \$15,150

Monique Vallabhan
 Health Resources and Services Administration
Telehealth Network Grant \$299,999

New Mexico Department of Health
Piloting the Effectiveness of the Low-Literacy Pictorial Asthma Action Plan Project \$52,750

Norma Ventura
 American Academy of Pediatrics
Flu2text: A Multi-Site Study Assessing an Intervention for Second Dose of Influenza Vaccine \$1,000

Jennifer Vickers
 New Mexico Department of Health
CORE Developmental Disabilities Waiver Outside Review Project \$1,501,100

New Mexico Department of Health
Continuum of Care \$858,800

New Mexico Department of Health
Mortality Review \$52,750

Kristi Watterberg
 Eunice Kennedy Shriver National Institute of Child Health and Human Development
NICHD Cooperative Multicenter Neonatal Network \$273,421

RTI International
NIH/NICHD Neonatal Capitation (NRN)-Continuation \$273,421

Carla Sue Wilhite
 New Mexico State University
New Mexico Agrability - Assistive Technology Program for Farmers With Disabilities \$12,141

Craig Wong
 The Children's Mercy Hospital
CKiD IV \$27,767

Presbyterian Healthcare Services
Pediatric Nephrology On-Call Services \$25,000

Presbyterian Healthcare Services
Pediatric Nephrology On-Call Services \$25,000

Presbyterian Healthcare Services
Pediatric Nephrology On-Call Services \$25,000

Nationwide Children's Hospital
Cure Glomerulonephropathy \$15,500

Elizabeth Yakes Jimenez
 Academy of Nutrition and Dietetics
Director of the Dietetics Practice-Based Research Network \$318,981

Academy of Nutrition and Dietetics
Director of the Dietetics Practice-Based Research Network \$98,000

Psychiatry & Behavioral Sciences

Christopher Abbott

National Institutes of Health
ECT Current Amplitude and Medial Temporal
Lobe Engagement - Continuation \$506,411

The Mind Research Network
Data-Driven Approaches to Identify
Biomarkers From Multimodal Imaging Big
Data \$17,957

Deborah Altschul

San Felipe Pueblo
San Felipe Native AWARE (Advancing
Wellness and Resiliency in
Education) \$1,250,000

San Felipe Pueblo
San Felipe Zero Suicide \$525,000

Taos Pueblo Division of Health and
Community Services
Taos Pueblo Tiwa Babies Program - FY19-
FY21 \$140,000

San Felipe Pueblo
KEYWAH II - Katishtya Embraces Youth,
Wellness, and Hope \$119,515

Falling Colors Corporation
Multi-Systemic Therapy Data Reporting
Initiative (MST Data) - FY19 \$31,400

Falling Colors Corporation
ASURE-TI - Adolescent Substance Use
Reduction Effort - Treatment
Implementation \$10,000

U.S. Indian Health Service
IHS Mental Health First Aid \$9,952

Caroline Bonham

U.S. Indian Health Service
IHS Tele-Behavioral Health, Training &
Consultation \$799,909

New Mexico Human Services Department
New Mexico Consortium for Behavioral
Health, Training & Research
Development II \$210,000

U.S. Indian Health Service
IHS Tele-Behavioral Health, Training &
Consultation \$74,900

Albuquerque Area Indian Health Service
Albuquerque Area IHS Clinical Training
and Education \$24,750

Juan Bustillo

The Mind Research Network
COBRE III \$48,689

The Mind Research Network
COBRE III \$46,603

The Mind Research Network
COBRE III \$37,873

Annette Crisanti

Bernalillo County
Collaborative Interdisciplinary Evaluation
and Community-Based Treatment \$160,000

Department of Health
Medication-Assisted Treatment in
Emergency Department \$140,000

American Psychological Association
APA Fellowship Yr 2 - Alonso
Marsden \$49,844

Lucas Dunklee

Massachusetts General Hospital
Augmentation Versus Switch: Comparative
Effectiveness Research Trial for Antidepressant
Incomplete and Non-Responders With
Treatment-Resistant Depression \$271,035

Martha "Molly" Faulkner

National Institute on Drug Abuse
NIMH Outreach Partnership Program
FY20 \$7,500

Brian Isakson

New Mexico Children, Youth & Families
Department
Healthy Transitions Expansion Grant
(HTEP) \$807,500

Substance Abuse and Mental Health
Services Administration
ACTION II - Addressing Childhood Trauma
Through Intervention, Outreach, and
Networking - Continuation FY20 \$399,717

Substance Abuse and Mental Health
Services Administration
Addressing Childhood Trauma Through
Intervention, Outreach, and
Networking II \$333,333

Falling Colors Corporation
Bridges to Wellness Evaluation (Promoting
Integration of Physical and Behavioral
Health Care) - Continuation FY20 \$184,220

Falling Colors Corporation
Bridges to Wellness Evaluation (Promoting
Integration of Physical and Behavioral
Health Care) \$75,000

First Choice Community Healthcare
First Choice Community Healthcare \$73,402

Substance Abuse and Mental Health
Services Administration
COPE Primary Care Integration (ICOPE-PC) -
Specific Supplement \$25,000

Falling Colors Corporation
Bridges to Wellness Evaluation (Promoting
Integration of Physical and Behavioral
Health Care) - Specific Supplement \$21,055



Falling Colors Corporation
Healthy Transitions Expansion Grant
(HTEP) FY19 \$16,667

New Mexico Children, Youth & Families
Department
CYFD Community of Care Expansion \$8,800

Julie Salvador

Falling Colors Corporation
New Mexico State Opioid Response -
Continuation SFY20 \$669,723

Falling Colors Corporation
New Mexico State Opioid
Response \$500,654

Agency for Healthcare Research and
Quality
Innovative Model for Increasing MAT Access
(AHRQ MAT) - FY19 Continuation \$389,610

Falling Colors Corporation
New Mexico State Opioid Response -
Amendment 1 \$236,880

Falling Colors Corporation
New Mexico State Opioid Response -
Supplement \$163,928

Mauricio Tohen

Bernalillo County
Psychiatric Services \$89,000

Ann Waldorf

Center for Substance Abuse Treatment
UNM - Provider's Clinical Support
System \$150,000

Falling Colors Corporation
Assertive Community Treatment -
FY20 \$135,790

Falling Colors Corporation
Assertive Community Treatment \$101,657

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

iNational 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
Behavioral Health Assessment &
Treatment for Students \$10,000

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.

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UNM HEALTH SCIENCES CENTER

Discovery

Research Annual
Report 2019

UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER

TURNING RESEARCH INTO CURES

