THE UNIVERSITY OF NEW MEXICO HEALTH SCIENCES

Discovery

Research Annual Report 2021

Building New Science Together



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UNM Health Sciences Research Annual Report 2021

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UNM HEALTH SCIENCES

VISION

The University of New Mexico Health Sciences 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 mission is guided by our values of excellence in education, patient care and research, commitment to service, quality and safety, integrity and accountability, respect and compassion for all people, teamwork and collaboration – and providing hope for those we serve.



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UNM HEALTH SCIENCES RESEARCH ANNUAL REPORT 2021



DOUGLAS ZIEDONIS, MD, MPH

Executive Vice President, UNM Health Sciences CEO, UNM Health System

any thanks and congratulations to all the research team leaders, faculty, students, staff and community leaders who have worked together to ask great research questions and uncovered important discoveries. This issue of DISCOVERY will showcase so many amazing projects that are making a difference here in New Mexico and beyond. We have had another terrific year of research innovation and discovery at UNM Health & Health Sciences!!

Research, scholarship and innovation support our collective journey to help enhance the health and health equity for all New Mexicans. We are better understanding critical community, clinical and basic science questions, developing and evaluating new interventions, and studying the dissemination and implementation of evidence-based treatments into new settings or populations.

The research shared in this report is world-class and reflects the range of investigators and research teams in our centers, institutes and programs. In spite of COVID, we continue to make incredible new discoveries and innovations, and translate them to solving real-world problems. We have contributed to better understanding and addressing the COVID-19 epidemic with more than 300 research studies.

We are national leaders on improving health equity, engaging the community in their concerns about vaccines and other COVID-related matters, and training and evaluating the impact on hundreds of thousands working in thousands of nursing homes across the nation (Project ECHO). Thank you.

Research is vital to our work as an academic health center. The search

for cures, better ways to support healing and enhancements of our treatments helps our primary mission to health, well-being and health equity. We are working as teams and developing the next generation of health care workers and scientists in interdisciplinary training.

Our research is also attracting substantial extramural funding that benefits our state's economy through increased jobs in the short run and also new startup companies and patents for the longer-term success of New Mexico.

We have attracted some phenomenal research talent to our campus, and it's reassuring to know that we have built the necessary infrastructure to enable our scientists to do their best work – examples include the Clinical & Translational Science Center, the Comprehensive Cancer Center, the three COBRES, our Signature Programs and Project ECHO.

We have forged fruitful partnerships with colleagues from across the UNM campus, leveraging their respective domains of expertise. Some examples include groundbreaking work being done by the TREE Center, headed by Dr. Lisa Cacari-Stone, and Dr. Johnnye Lewis's METALS project.

Our scope also extends outside the university. We are actively exploring collaborations with our friends at Los Alamos National Laboratory, Sandia National Laboratories, Santa Fe Institute, New Mexico Tech and New Mexico State University to take better advantage of the state's rich intellectual resources.

Thanks for all you do. I'm looking forward to seeing what comes next!

his year, The
University of New
Mexico Health
Sciences Center research enterprise
once again surpassed itself, with a
record \$212 million in extramural
funding for FY 2021.

If we add in a one-time infusion of \$237 million in support for Project ECHO's collaboration with the Agency for Healthcare Research & Quality to disseminate COVID safety practices at 15,000 U.S. nursing homes, we reach an astounding total of \$449 million.

Whichever math you use, it is clear HSC research has been on a steady upward trajectory for well over a decade, bringing impressive new medical and health care breakthroughs to the university and providing an invaluable economic boost in our community (see the graph on Page 30).

This achievement is especially impressive given the precautions that were put into place across campus to limit the spread of SARS-CoV-2 infections. Fortunately, biomedical research was deemed an essential activity, so we were able to keep our laboratories up and running, which in turn enabled us to make a significant contribution to COVID-related research.

Over the course of FY 2021 the HSC conducted a total of 137 COVID-related studies, including 24 clinical trials. The UNM Clinical & Translational Science Center oversaw 23 of those studies, including 15 clinical trials. I'm especially proud of our participation in a high-profile national trial of the Moderna vaccine in children and a large NIH-funded study of patients experiencing "Long COVID" symptoms.

Other highlights from the past year include the National Cancer Institute's renewal of elite comprehensive status for the UNM Comprehensive Cancer Center, recognizing it as one of the 51 leading cancer centers in the nation – and the only such cancer center in New Mexico. Comprehensive designation requires an intensive federal re-certification and designation process every five years.

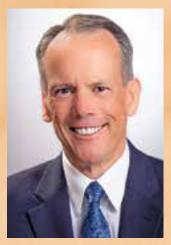
And in January we will break ground on the new research wing at Domenici Hall, dubbed the Interdisciplinary Substance Use and Brain Injury Center. The 16,000-square-foot facility will include state-of-the-art laboratories and clinical research testing spaces, supporting both our substance abuse and brain injury research.

These highlights – and many more – are a tribute to the persistence, creativity and hard work of our faculty, staff and students. You are the heart and soul of our research efforts. I hope you share my pride in our accomplishments and my optimism about what we will achieve together in the future.



RICHARD S. LARSON, MD, PHD

Vice President for Research, Health Sciences



MICHAEL E. RICHARDS, MD, MPA

Interim Dean School of Medicine

he COVID-19 pandemic has affected every facet of our lives, and challenges us in ways most of us have never experienced. Since becoming interim dean of the School of Medicine in July, I have been impressed with our researchers' efforts to develop vaccines, find effective therapeutics and devise sterilization methods to preserve personal protective equipment.

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

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

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

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

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

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

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

Thanks to everyone who has made these research programs a success. They are central to our institution's mission and promise to enhance the health and well-being of New Mexicans.

ur research has direct impact on the communities the College of Nursing serves, from improving mental health services for adolescents to enhancing the resiliency of the military nurses caring for veterans and service members.

The College of Nursing has five areas of emerging research: women's and children's health, military, disasters and public health, big data and environmental toxicology.

Nurses, including our Lobo nurse researchers, continue to be on the front line of the COVID-19 pandemic. We're working to understand the stress the pandemic brought upon nurses so that organizations such as schools and hospitals can better support nurses when the next public health emergency strikes.

We're working to understand how to improve the resiliency of military nurses, to protect their health and ensure that they can continue to serve service members.

We're turning large data sets into health outcomes. We partnered with Sandia National Laboratories to model the impact of COVID-19 outbreaks on hospital surge capacities, and we used machine learning to better understand health care needs for children with disabilities as they become adults.

Our studies focus on understanding how to give our families and our children the best futures. We're working to determine how synthetic oxytocin, a medication used in labor, can later impact a mother's lactation. And our ADOBE Portal pilot project in Albuquerque is working to better serve high-risk youth by providing mental and physical health care for children and their families, while also serving social needs, such as school enrollment.

We're finding outcomes that can directly benefit Native tribal communities harmed by abandoned and poorly remediated uranium mines, as we study how heavy metals and toxic substances affect body functions. These outcomes can inform intervention strategies and improve the health of these communities.

The outcomes of our nurse researchers and partners will have a meaningful impact on the health of New Mexicans for years to come.



CHRISTINE KASPER, PHD, RN

Dean College of Nursing



DONALD GODWIN, PHD

Dean College of Pharmacy

espite a worldwide pandemic that impacted every member of the College of Pharmacy, we had our most successful research funding ever in 2021, with more than \$14 million in grant awards from a variety of state and federal sources.

Blue Ridge Institute for Medical Research ranked the College No. 6 among 141 U.S. pharmacy programs for National Institutes of Health research dollars. Our research activities span the translational research spectrum, from bench to bedside to community.

Even more important than extramural funding is the impact that our research makes on the most vulnerable populations in New Mexico.

Our research has explored the impact of increased pandemic-related stress across minority communities already affected by historical trauma, as well as the effect of the COVID-19 pandemic on psychosocial outcomes, alcohol use and stress-related physical outcomes in pregnant and postpartum women.

Our long history of environmental health research continued, with longstanding partnerships with Indigenous communities to study the health implications of exposure to wastes from abandoned mines,

combined with microplastic and other plastic degradation products.

The College also continued to focus on adverse health outcomes from exposure to metal contaminants across the Southwest, as well as on harnessing the chemical properties of metals for therapeutic and nutritional purposes.

The College's Substance Use Research & Education Center continues its remarkable work involving the use and misuse of alcohol and prescription and nonprescription drugs, with a focus on prenatal alcohol exposure, epigenetic studies and distribution of naloxone to reduce opioid overdose deaths.

Our clinical research is improving patient care for HIV, hepatitis C, tuberculosis, atrial fibrillation and hypertension. These discoveries help expand the scope of practice of pharmacists in New Mexico and the U.S., leading to better health care and patient outcomes.

It is my honor and privilege to lead the College in our never-ending quest for discovery. For more than 75 years, our faculty, staff and students have worked to make the next great breakthrough that leads to better health care both for individuals and communities.

et us embrace Fall
2021! In our second
autumn with the
COVID-19 pandemic, we are in
a much better place this year,
thanks to the availability of effective
vaccines and a return to in-person
learning.

The College of Population
Health continues to add faculty and
students. Joining us this year is
Laura Tomedi, who holds a PhD in
epidemiology from the University of
Pittsburgh and a master of public
health degree from UNM. Her areas
of specialty include substance
use and health inequities. We are
fortunate to have her join our faculty.

This semester we have enrolled 111 undergraduate and 90 graduate students – both increased numbers from last year. We are planning a joint PhD program in Health Equity Sciences with New Mexico State University and hope to launch in Fall 2022.

Our students and alumni continue to shine. MPH student Alin Y. Badillo-Carrillo published a commentary, "Destigmatizing LatinX Mental Health," in the Public Health Post. MPH candidate Daisy Rosero presented "The Impact of COVID-19 on U.S. Organic Farmers" at the 2021 American Public Health Association meeting. Justin Garoutte, an MPH alum, worked

with the New Mexico governor's office to plan and launch a COVID-19 wastewater surveillance system.

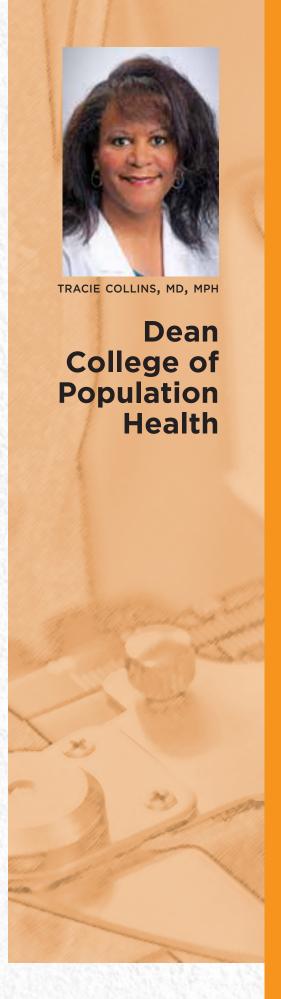
Our researchers continue to thrive. Drs. Lisa Cacari-Stone, Nina Wallerstein and Tassy Parker received a \$1.4 million National Institutes of Health-funded grant titled, "New Mexico-Wide Engagement for Assessing COVID-19 Vaccine Equity." Congratulations to the entire team.

What is next for the College? We are partnering with the New Mexico Department of Health and NMSU to establish an Academic Health Department (AHD) to provide field experiences for students, teaching opportunities for DOH staff and stronger research collaborations.

AHDs resemble the relationship between teaching hospitals and academic units – hands-on experience coupled with didactics. We are also creating a Health Policy Center to provide data analytics and policy to support quality of care for New Mexico Medicaid recipients.

Under the leadership of Dr.
Douglas Ziedonis, Executive Vice
President for Health Sciences, we
are planning a second PhD program,
as well as significant growth of
faculty members this year.

It is good to be back, and I am excited to continue to grow the College of Population Health.



University of New Mexico Health Sciences research centers and institutes play a prominent role in many critical national networks. We thank the directors, faculty, staff and students who enrich the work of these groups. These entities have a range of research cores and shared facilities. Here's an overview:

Designated Research Centers, Institutes & Networks

- UNM Comprehensive Cancer Center (P30CA118100, Tomkinson)
- · Center for Infectious Disease & Immunity (Byrd)

Extramurally Funded Centers & Institutes

- Autophagy, Inflammation & Metabolism Center (NIH/COBRE) (P20GM121176, Deretic)
- Center for Brain Recovery & Repair (NIH/COBRE) (P20GM109089, Shuttleworth)
- New Mexico Alcohol Research Center (P50 AA022534, Savage)
- Transdisciplinary Research, Engagement & Equity Center for Advancing Behavioral Health (U54MD004811, Cacari Stone).
- Center for Metals in Biology & Medicine (NIH/COBRE) (P20GM120422, Campen)
- Center for Native American Environmental Health Equity Research (P50MD015706, Lewis, MacKenzie).
- Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest Superfund Research Center (P42 ES025589, Lewis)
- New Mexico Exploratory Alzheimer's Disease Research Center (P20 AG068077, Rosenberg)
- for Development & Disability (Administration on Intellectual and Developmental Disabilities, Moriarta).

Other Centers, Institutes & Networks

- Center on Aging (Herman)
- Center for Disaster Medicine (Banks)
- Institute for Ethics (Bolton)
- · Center for Forensic Imaging (Adolphi)
- Center for Global Health (Perkins)
- Center for HPV Prevention (Wheeler)
- Memory & Aging Center (Rosenberg)
- Center for Molecular Discovery (Wandinger-Ness)
- Center for Native American Health (Parker)
- Institute for Resilience, Health & Justice (Hsi)
- Center for Health Equity & Preparedness (Couig)
- Center for Healthcare Equity in Kidney Disease (Myaskovsky)
- Center for Participatory Research (Wallerstein)
- Center of Excellence for Orthopedic Surgery & Rehabilitation (Schenck)
- Substance Use Research & Education Center (Bakhireva)
- Diabetes Prevention & Outcomes Center (Schade)
- Research Center (Davis)
- Epidemiology and Prevention Interdisciplinary Center for Sexually Transmitted Infections (Wheeler)
- Illuminating the Druggable Genome Knowledge Management Center (Oprea, Lambert)
- Center for Innovation in Health & Education (Frank)

Signature Research Programs

- Brain & Behavioral Health Institute (Bakhireva & Bhaskar)
- Cardiovascular & Metabolic Disease (Buranda, Campen, Gonzalez-Bosc, Kanagy, Liu)
- Infectious Diseases & Immunity (Byrd)
- Child Health Research (Watterberg)
- Environmental Health Sciences (Gonzalez)

Solving Pandemic Puzzles

HSC Researchers Take on Thorny COVID-19 Scientific Questions

By Michael Haederle

hroughout 2021 The
University of New Mexico
Health Sciences Center drew
on its strengths as an academic
health center to launch more than
137 studies – including 24 clinical
trials – related to the COVID-19
pandemic.

The work spanned the spectrum, from characterizing emerging genomic variations in the virus and evaluating COVID safety protocols in clinical settings to computational analyses of existing drugs for potential antiviral therapeutics.

Two studies in particular stood out for their impact on the wider community: a national trial of the Moderna vaccine in children 12 and under and a National Institutes of Health-funded study of patients with lingering "Long COVID" symptoms the Researching COVID to Enhance Recovery (RECOVER) Initiative.

The projects, coordinated through the UNM Clinical & Translational Science Center (CTSC), drew on the HSC's demonstrated ability to enroll a diverse patient cohort, including Hispanic and American Indian participants, said Hengameh Raissy, PharmD, interim vice president for Health Sciences Research and vice "Minorities have historically been underrepresented in clinical research trials . . . Our goal is to include diversity in the study populations in order to have generalizability of research to the population."

Hengameh Raissy

chair for research in the Department of Pediatrics, who serves a co-principal investigator for RECOVER and leads the CTSC's Network Capacity.

"Minorities have historically been underrepresented in clinical research trials," Raissy said. "Our goal is to enroll to include diversity in the study populations in order to have generalizability of research to the population."

The Moderna vaccine KidCOVE trial started by enrolling 65 New Mexico children ages 6 through 12, said Walter Dehority, MD, MSc, an infectious disease specialist and associate professor in the UNM Department of Pediatrics who serves as principal investigator for the study.

Vaccinating children "has huge implications for the opening of schools," he says. "A lot of teachers



HENGAMEH RAISSY, PHARMD





WALTER DEHORITY, MD, MSC

"Why have New Mexican kids in the ICU with COVID-related disease every day if we could prevent that?"



MICHELLE HARKINS, MD

"We're trying to ascertain who develops PASC, and if we do, are there treatments that actually mitigate it at the beginning or help with their symptoms later." might not feel comfortable going back to in-person learning, but they might if they knew the children they were teaching were immunized. The same would apply to other youth activities, such as sports."

Dehority points out that even if the most severe impact of the disease is seen in adults, some children do become seriously ill.

"During the COVID epidemic we've had four or five kids in the hospital at a given time, and they're often in the intensive care unit," he says. "Why have New Mexican kids in the ICU with COVID-related disease every day if we could prevent that?"

Additionally, having children vaccinated will also make adult family members who might be at risk for COVID (such as grandparents) more comfortable and safer when they are around the youngsters.

UNM is one of dozens of sites around the country participating in the KidCOVE study, which aims to enroll close to 7,000 children and follow them for about 14 months, Dehority said.

In the randomized, double-blind controlled study, children receive either a placebo or the first dose of the Moderna mRNA-1273 vaccine when they enroll, then return about a month later for the second shot, he said.

Parents and children are asked to return to the UNM CTSC clinic for follow-up testing in subsequent months, and there will be at least two visits with the research team after each injection.

The next two phases of the trial, which are expected to start later in the fall, include children ages 6 months to 5 years old.

Additional co-investigators on the study include Raissy and fellow Pediatrics faculty members Chandler Todd, MD, and Matthew Kadish, MD.

Starting in spring 2021, NIH invited academic health centers to develop protocols for the RECOVER study, which hopes to enroll 8,000 to 10,000 patients at institutions around the country to study Long COVID.

The UNM Health Sciences Center expects to enroll 200 adults and 200 children, including people already experiencing symptoms and those newly diagnosed with COVID-19, Raissy said.

According to NIH, symptoms of Long COVID – formally known as post-acute sequelae SARS-CoV-2 infection (PASC) – may include ongoing fatigue, shortness of breath, "brain fog," sleep disorders, fevers, gastrointestinal symptoms, anxiety and depression. Symptoms can persist for months, ranging from mild to incapacitating. In some cases, new symptoms arise well after the time of infection or evolve over time.

The studies seek better understanding of how many people continue to have COVID-19 symptoms (or develop new symptoms) and what the underlying biological causes might be. This could provide insight into what makes some people vulnerable to these symptoms and whether they increase the risk for other conditions, such as chronic heart or brain disorders.

"We'll be enrolling acutely ill patients and patients that have recovered with Long COVID," said Michelle Harkins, MD, professor of Internal Medicine and co-principal investigator on the adult study. "We're trying to ascertain who develops PASC, and if we do, are there treatments that actually mitigate it at the beginning or help with their symptoms later."

The studies will include a close review of medical records, as well as extensive diagnostic screening, such as blood tests and CT and MRI scans, to gather as much information as possible about each patient and their symptoms.

"This is a huge collaboration between the Clinical & Translational Science Center, which applied for the study, UNM Hospital and the Departments of Pediatrics, Internal Medicine, Neurology, Emergency Medicine and Psychiatry & Behavioral Sciences," Raissy said.

Other investigators for the adult study include Alisha Parada, MD, associate professor in Internal Medicine, Davin Quinn, MD, associate professor in Psychiatry & Behavioral Sciences and Elyce Sheehan.

Walter Dehority is co-principal investigator on the pediatric arm, with additional investigators Matthew Kadish and Jerry Larrabee, MD, MEd, professor of Pediatrics.



By Rebecca Roybal Jones

ina Wallerstein, DrPH, distinguished professor in the University of New Mexico College of Population Health (COPH), has built a career on researching interventions in communities to promote improved health outcomes.

Her devotion to participatory research emphasizes shared leadership within communities to determine culture-centered interventions specifically tailored for the particular community.

As the director of the Center for Participatory Research, Wallerstein has engaged with Jemez Pueblo, the Navajo Nation and the Mescalero Apache community. Wallerstein has also worked elsewehere in the United States, and internationally – especially in Brazil.

Over the years, she has been awarded more than \$25 million in funding for her research.

Most recently, her life's work has earned her the title of distinguished professor, the highest title that UNM bestows upon its faculty. It's awarded to individuals who have demonstrated outstanding achievements, and are nationally and internationally renowned as scholars.

"It's definitely an honor, and definitely I'm humbled by the respect," Wallerstein says. "I should say I've been constantly realizing how much I keep learning, even now as a distinguished professor. It's never over. This is a good thing to know."

Wallerstein served as interim dean of the COPH during much of 2021 while Dean Tracie Collins, MD, MPH, temporarily headed the New Mexico Department of Health during the COVID-19 pandemic and she's looking forward to getting back to research.

One project she's working on, along with two other principal investigators, has been awarded \$1.4 million in federal funding to explore why so many New Mexicans are hesitant to receive COVID-19 vaccinations.

The one-year Community
Engagement Alliance Against
COVID-19 Disparities grant from the
National Institutes of Health is part
of a national effort to understand
and overcome the barriers that keep
people from getting vaccinated in
hopes of stopping the coronavirus
pandemic.

The UNM study, dubbed Wide Engagement for Assessing COVID-19 Vaccination Equity, will build a consortium of more than 200 partner organizations to engage with communities around the state.

Another proposal could make a difference beyond New Mexico.

Wallerstein and Richard S.
Larson, MD, PhD, Vice President for
Research, Health Sciences, have
submitted a new grant proposal to
the National Center of Advancement
of Translational Science to work
with clinical and translational
science centers from other universities to learn together how to
strengthen academic institutions to



"My goal has been to identify real distinctions between what is the best and most promising practice of engagement . . ."

Nina Wallerstein, DrPH

better support community engaged research, she says.

Wallerstein joined the UNM faculty in 1989, and helped develop the master of public health degree at the university, which then grew into a public health program and is now a key part of UNM's College of Population Health.

Over the years, she's earned numerous grants from the National Institutes of Health to explore the added value of participatory approaches to research and health equity outcomes. She's also the principal investigator for Engage for Equity, a National Institute of Nursing Research-funded project with national partners.

"We call this whole big trajectory the Engage for Equity study," Wallerstein says, describing it as an inquiry into what engagement adds to health equity outcomes and identifying metrics-promising practices.

"My goal has been to identify real distinctions between what is the best and most promising practice of engagement, rather than 'anything goes," she explains. "You can call all kinds of things community engagement, but not everything is evidence-based, not everything is successful, and there's lots and lots of engagement that is really simply unilateral outreach that's just done to people."

She adds, "I've gone out of my way in my career to try and establish the evidence of what authentic partnering is, that it's really built on an equity agenda."

That means that rather than the university or a professor calling all the shots, every aspect of the research is a true partnership – from resources and funding to

decision-making and methodology, Wallerstein says.

"I've learned from tribes that this is the way all research should be done," she says. "We should always be looking at community benefit."

Collaborating with researchers from communities of color is just as important as the methodology used in the research, Wallerstein says.

"If we're really going to address racial healing and racial equity, then that academic team also has to represent that," she says. "My partnering is – as in my team – as much an important part of my research as the actual methodology I use, and intervention research to create health outcomes."

Relevant Research

Southwest Clinical Trials Network Brings Opioid Dependence Treatments to New Mexico

By Cindy Foster

pioid dependence is a complex, devastating condition that can impact everyone, from the young to the very old. It should come as no surprise that treatments have to be varied in order to be effective.

The University of New Mexico's participation as a node within the Southwest Clinical Trials Network (SW-CTN) – now in its third year of funding by the National Institute on Drug Abuse – is providing the state with the opportunity to participate in cutting-edge national studies and treatments focused on the opioid epidemic, according to Kimberly Page, PhD, professor in the Division of Epidemiology, Biostatistics & Preventive Medicine in the UNM School of Medicine.

Through the SW-CTN node, professionals and the public can readily access resources and information, she says.

"Each clinical trial has its own site, so the node is an important factor in building research across the campus, while providing a great opportunity to participate while our clinicians and scientists get to learn all the intricacies of multi-site research," Page says.

"Here on the Health Sciences campus, we are working with clinicians who are new to clinical research across multiple departments, including Psychiatry, the Emergency Department, Family Medicine and Internal Medicine," she says.

Interdisciplinary cooperation is key to success, and researchers routinely

cross Lomas to interact with professionals on UNM's Main Campus, as well as other health professionals in communities across the state.

Some very effective medical interventions have arrived on the scene in recent years as the opioid epidemic has evolved, she says.

Several trials are analyzing medication interventions for opioid use disorder. They include investigating the effectiveness of both shortand long-term medical dosages, Page says.

"That focus is a really important reason why the Health Sciences campus is leading this," she says. "We know that different populations may respond differently to these interventions."

For instance, researchers in the UNM Hospital Emergency
Department are looking at the effectiveness of a long-acting injection versus a sublingual pill for weaning patients off opioid use. A separate trial is working with pregnant women to evaluate the effectiveness of a long-acting versus daily medication: two different research groups with different needs.

"It helps people to stay in compliance when they don't have to take a medication every day," Page says. "Many people drop out of treatment care early and that puts them at great risk of overdose and other negative health consequences. Keeping people engaged in care is a very high priority for some of our research."



KIMBERLY PAGE, PHD

While UNM conducts substantial medication-based research, it pursues other types of research as well, she says.

No matter the group – from pregnant women to seniors to rural workers – investigators realize each situation is complex, and there probably not will be a "one size fits all" regimen. For that reason, clinical research often begins with talking directly to stakeholders and getting ideas directly from communities. It is also important to research the impacts cultural issues can have on care, she says.

"What we are doing is looking at what tools we can add to our toolbox," Page says. Sometimes that might mean new medicines, sometimes it can be something behavioral. We constantly are asking, 'How can a treatment be best implemented, and with what populations is it of great importance to use?"

As knowledge increases in the field, new areas for study are also beginning to appear on the horizon.

"Research into reducing stigma as a barrier to successfully treating opioid abuse is of great importance, and we hope to be leading the way with this," she says.

Knowledge Multiplier

UNM's Project ECHO Extends Health Care Expertise Around the World

roject ECHO, The University of New Mexico's signature tele-mentoring initiative, has built an impressive track record of delivering effective interventions that have improved health outcomes in communities all over the world.

Since it was founded in 2003, ECHO has offered case-based learning to more than 1.3 million clinicians and community leaders. The model was put to the test in September 2020 – at the height of the COVID-19 pandemic – when Project ECHO executed a 12-month program on behalf of the Agency for Healthcare Research and Quality (AHRQ) to work with U.S. nursing homes to reduce the spread of the coronavirus in their facilities.

"This was an amazing project," said Nancy Hood, Project ECHO's director of research and evaluation. According to AHRQ data, ECHO's 99 partner hubs offered training to 32,000 staff in 9,058 nursing homes – 59% of 15,400 facilities that were eligible.

"The most exciting thing about the nursing home project was it retained the small, two-way interaction, providing peer-to-peer learning in a safe, trusting environment," Hood said. "This was an environment where they could learn from each other and talk about their challenges and get the most up-to-date information."

ECHO has also made a measurable impact in tackling addiction.

Joanna Katzman, MD, medical director of Project ECHO's Pain,

Substance Use and Public Health Program, and an expert in reducing reliance on medications to treat chronic pain, partnered with the Defense Health Agency in a four-year project to train Army and Navy medical providers in pain management and opioid prescribing.

The patient pool ranged from ages 18 to 64, females and males, seen at military health care clinics around the globe. "The doctors who were being trained via ECHO were not writing new opioid prescriptions and not getting them started on this whole course of treatment," Katzman said. "By training clinicians, you can change provider behavior, which then can affect patient care. That's really what we are showing."

UNM pulmonologist Akshay Sood, MBBS, MPH, who specializes in treating miners for black lung disease and pneumoconiosis, worked with Miners' Colfax Medical Center in Raton, N.M., to create a tele-ECHO to train rural clinicians to care for a surge of new patients.

"The program provides longitudinal tele-mentoring to professionals taking care of miners," Sood said. "It focuses on underserved populations and it serves a rural need that's emerging. To the best of our knowledge, it's one of the few programs that focuses on occupational diseases."

Following sessions that unfolded over a 12-month period in 2018 and 2019, participating clinicians, care providers and others reported



JOANNA KATZMAN, MD



AKSHAY SOOD, MBBS, MPH

significantly greater self-efficacy in treating miners' lung disease.

The program was "a genuine partnership between a university and rural community health institution," Sood said. "There's no one institute that has all the skillsets required to take care of miners."

It also helped that the presentations were provided by experts in New Mexico. "Knowledge transfer coming from rural areas is more effective than knowledge transfer coming from urban areas," he said. "ECHO is a very powerful tool for people in rural areas."

Elemental Research

UNM Center for Metals in Biology in Medicine Aims to Shed Light on Complex Interactions

By Michael Haederle

inute amounts of metallic elements in our diets play an essential role in maintaining cellular health, but it is well known that in higher doses they can be toxic.

The University of New Mexico
Center for Metals in Biology in
Medicine, funded by a five-year,
\$11.5 million grant from the National
Institute of General Medical Sciences,
is focused on better understanding
the ways in which metals help – and
hinder – biological processes.

The Center is a multidisciplinary effort led by Matthew Campen, PhD, professor in the College of Pharmacy, and associate director of the UNM Clinical & Translational Science Center. It brings together faculty members from across the Health Sciences campus and creates new joint resources, including a state-of-the-art analytical chemistry core.

"The rationale is we have been studying heavy metal toxicity for so long that we have this background expertise here that can be shared with anybody studying metals anywhere in medicine," says Campen, who serves as the Center's director.

The Center's senior leadership also includes associate director Jim Liu, PhD, Laurie Hudson, PhD, director for career development, and Jim Feng, PhD, director of the Integrated Molecular Analysis Core. The Biostatistics Core, led by director Yiliang Zhu, PhD, plays a key supporting role.

"The work from Laurie Hudson and Jim Liu over the past five to 10 years is a great example of how this works," Campen says. They have shown how arsenic, a toxic metal sometimes ingested by people living near abandoned mining sites, competes with zinc in cellular proteins.

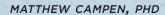
"If you have a greater amount of zinc in your diet you can offset that," Campen says. "Maybe the simplest solution is to give them supplements of zinc."

The Center, funded under the federal Center of Biomedical Research Excellence (COBRE) program, is also home to mentored junior faculty to help them become principal investigators on their own research grants, Campen says.

Junior faculty members include Alicia Bolt, PhD, an assistant professor in the College of Pharmacy, who studies how occupational exposure to tungsten may promote cancer metastasis, Campen says.

Xiang Xue, PhD, assistant professor in the Department of Biochemistry & Molecular Biology, studies how dietary iron affects tumor cell metabolism in colorectal cancer. "His research is really central to that issue," Campen says.

Rama Gullapalli, MD, an assistant professor in the Department of Pathology, "is interested in gall



bladder cancer," Campen says.

"There seems to be a role for heavy metals in driving incidence there."

In the College of Pharmacy, assistant professor Xixi Zhou, PhD, is studying how arsenic can cause specific patterns of DNA damage and mutation in lung cancer.

A year after the initial grant award, the Center has hired staff and is opening its new analytical chemistry laboratory, with Ting Jiang, PhD, and Rui Liu, PhD, overseeing it as a service center with the capacity to conduct inductively coupled mass spectrometry.

"We can look at uranium uptake or iron levels or cadmium, or lead," Campen says. "We'll also have the opportunity to look at biological molecules and how they interact with them and see whether proteins are binding to metals with high affinity. If you have a biological marker for oxidative stress or DNA damage we'll be able to measure those."

The Center is one of three COBRE programs at UNM, said Richard S. Larson, MD, PhD, Vice President for Research, Health Sciences.

"This is our third COBRE," Larson says. "It puts us at the cap of allowable COBREs for an institution. Our metals and environmental health signature program is a great accomplishment for the College of Pharmacy."

Seeing the Big Picture

UNM College of Nursing Research
Focuses on Patients, Their Families
& Their Communities

By Cindy Foster

nique to nursing research is an emphasis on the impact nursing care provides – not just for patients – but the community at large says Patricia Ann Watts Kelley, PhD, RN, professor and associate dean for Research and Scholarship in The University of New Mexico College of Nursing.

"A key question for our nursing research investigators is always, 'How can we prepare a nurse to create better health for the patient?" she says. "We know that the success for each patient will be dependent on the family support and the community support they receive."

Current research projects in the college range from looking at how personal protective equipment affects nurse/patient communication, to analyzing supports that can enhance nursing resilience within the military and investigating what community engagement behaviors can help decrease the impact of COVID-19.

Other projects include examining how the mother-baby relationship can be improved, how school nurses can be supported through the pandemic and how environmental toxins can harm health.

While the topics vary, they share a common approach in looking at ways to improve the health care environment for patients, nurses and community.

Kelley points out that while a physician might dictate or order the care, the role of administering that care falls to the nurse.

As the only Carnegie R1 university in the state, she adds, the college has a goal of incorporating a holistic nursing perspective within the scientific research framework.

"There is both an advocacy role and a coaching one that comes into play in nursing research projects," she says.

As an example, she pointed to a recent study investigating which nursing interventions were seen as most helpful by diabetics and their families.

In interviews, researchers found diabetic patients believed the most successful experience came from working with a drop-in nurse who would check in between appointments, answer questions and monitor follow-up visits.

"Our goal with our research is to develop the body of nursing science to better provide good care and to find effective ways to help patients find the best ways to take care of their own health," she says.

Kelley's own research working with military families of wounded service members shows that holistic focus.



PATRICIA ANN WATTS KELLEY, PHD, RN

"Nurses meet people where they are and they recognize their human condition . . ."

"I've done 20 years of military response on wounded and injured soldiers," she says. "I begin by asking them what their wounded care journey was, and then I ask the nurse about what worked and didn't work. At that point, I go to the family, because I want to hear from the family about their needs and I know those needs can sometimes get lost in the process."

Analyzing that information can then lead to an improvement in infrastructure and support services, ensuring that resources are provided most effectively for patients and family caregivers, she said.

"Nurses meet people where they are and they recognize their human condition as they try to move them on the continuum of health, and that is reflected in our research studies," Kelley says. "It is important for it to be a holistic approach as we strive to improve the health of patients, their families and communities."



Stepping Up

ALAN TOMKINSON, PHD

By Rebecca Roybal Jones

lan Tomkinson, PhD, has been serving as the interim director and CEO of The University of New Mexico Comprehensive Cancer Center for a few months now.

He is filling the very large shoes of longtime Cancer Center CEO Cheryl Willman, MD, who was recently named executive director of the Mayo Clinic Cancer Programs and director of Mayo Clinic Comprehensive Cancer Center. The Mayo Clinic is the nation's topranked health care delivery system and hospital.

Although Tomkinson says he's honored to lead the center until a permanent director is named, he will be happy to return to his research lab.

"Obviously, it was a bit of a shock when Dr. Willman announced that she was taking another position," Tomkinson says. "It's not something that we had anticipated."

He adds that leading the cancer center wasn't top of mind, either. In fact, he had contemplated retiring. He's since laid the idea to rest and is committed to mapping out a strategy for the next renewal of the

Cancer Center's National Cancer Institute (NCI) designation. The Cancer Center is one of only 51 NCI-designated comprehensive cancer centers in the nation – the highest federal designation and rating for cancer centers.

Tomkinson has been deeply involved in the most recent NCI renewal process, which takes place every five years, and in setting strategy for the next several years.

"To me, it's important that we continue the momentum that we built up and implement the strategic goals that we had – or start to move towards them," he says. "I think if we wait it's harder to get it going again. I see my role as keeping the cancer center moving forward while we look for a new director, and then handing off something that's in a good state for them to pick up."

Tomkinson is leading the center with chief medical officer Zonnedy Dayao, MD, and Carolyn Muller, MD, associate director for clinical research

"Together, we have the expertise to run the center," Tomkinson says.

Tomkinson holds numerous titles at UNM beyond his current

assignments. He also is associate director for Basic Research at the Cancer Center, as well as a tenured professor and vice chief of the Division of Molecular Medicine in the Department of Internal Medicine, and a professor in the Department of Molecular Genetics & Microbiology.

Over the years, he's received grants from the National Institutes of Health (NIH) to research roles of DNA ligase 1 in mammalian DNA metabolism. He's published dozens of articles, and for the past 20 years, his lab has been funded by three NIH RO1 grants for health-related research and development, as well as an NCI program project.

Earlier in his career, Tomkinson worked at the University of Texas Health Science Center at San Antonio and the University of Maryland in Baltimore. He also completed two post-doctoral degrees, one at Imperial Cancer Research Fund in London, and at University of California, Berkeley.

He also was principal investigator of an NCI T32 grant focused on DNA repair and tumor suppressors at the University of Texas. He continues to lead a lab using cutting-edge

Alan Tomkinson Takes on Leadership Role at the UNM Comprehensive Cancer Center

He recently received a new five-year program project grant to continue his mission of finding ways to stop cancer in its tracks.

technologies in basic and translational research.

Tomkinson's cancer research has been part of his life since he was a young man.

During his last year as an undergraduate student at Newcastle University in England, he became interested in xeroderma pigmentosum, a rare disease in which some people are born with an extreme sensitivity to sunlight. This disease significantly increases the risk of skin cancer.

"I was really interested in how sunlight would cause cancer," he says. "Clearly, there were repair mechanisms in the body that protect against those things, and so I became interested in those, how that worked. There were several of these rare diseases, in which it was clear that if you couldn't repair damage to DNA that you were predisposed to cancer.

"So, the question was, does this underlie things like sporadic cancers, which are much more prevalent? These are very rare genetic diseases, but you have lots of cancer and most of them are not driven by an inherited defect." After training with protein biochemists, Tomkinson was mentored in London by Tomas Lindahl, a Nobel Prize winner in chemistry, whose specialty is DNA damage and repair.

They worked on proteins called DNA ligases, he says. His research focuses on finding a treatment that targets only cancer cells, rather than hitting all cells.

"It means that if you want to treat a cancer, what you need to find is something that's selected for the cancer cell. Because many of the treatments that we've had for a long time do a lot of damage to normal cells," Tomkinson says.

Targeting the cancer cells rather than the whole person can provide a "therapeutic window where you can give a drug that's selected for the cancer cell and minimize the damage to the normal cell," he says. "Because there's no point in killing this cancer if you kill the patient, too."

To be able to do that, you need to know how the damage and repair work in a normal cell, and then what the changes are in the cancer cell so that you can think about how to exploit that difference, Tomkinson explains.

"That's basically what my research program has been about: How do the normal cells do it? What are the mechanisms? How do they work?" he says. "Because there's not just one mechanism, it's a network of DNA repair mechanisms. What is the difference between that and a cancer cell, and how does the cancer cell work? What are the differences and can we develop something if a cancer cell becomes much more dependent on one pathway? Can we target that pathway and then not hurt the normal cell?"

Though he's considering winding down his research so that he can enjoy retirement, he'll likely be putting it off – he recently received a new five-year program project grant to continue his mission of finding ways to stop cancer in its tracks.

FAR-REACHING RESEARCH

Scientist Eric Prossnitz Detects Hidden Connection Among Common Diseases

By Michele W. Sequeira

asic scientific research can help a wide range of people, oftentimes in unpredictable ways.

For example, many people think that cancer, obesity, diabetes, heart disease and infections have little in common. But Eric Prossnitz, PhD, has studied a cellular receptor that plays an important role in each of these diseases.

Prossnitz's discoveries about the G protein-coupled estrogen receptor (GPER) have led to a clinical trial for melanoma and other cancers, drug candidates for metabolic and cardiovascular diseases and possible treatment improvements for breast cancer.

Prossnitz began his study of breast cancer more than 15 years ago. He was particularly interested in why some women who initially respond to breast cancer drugs later develop resistance to them, allowing the cancer to recur. And when breast cancer recurs, it usually recurs more aggressively.

According to the National Cancer Institute's Surveillance, Epidemiology and End Results program, about 75% of the 280,000 women diagnosed with breast cancer each year have estrogen receptor-positive (ER+) breast cancer. The anti-hormonal breast cancer drugs available, such as tamoxifen and fulvestrant, work very well in these cancers, but they are effective in only about two-thirds of patients. For about one-third of the women who initially respond, their breast cancer comes back, usually in a form that resists the drug.

"It's a huge number of women," Prossnitz says. In 2021 alone, more than 80,000 women could face a new or recurrent ER+ breast cancer that won't respond to anti-hormonal therapy.

Prossnitz, a cell biologist, teamed up with medicinal chemist Jeffrey Arterburn, PhD, at New Mexico State University, drug discovery expert Larry Sklar, PhD (now retired from UNM), UNM bioinformatics experts Tudor Oprea, MD, PhD, and Cristian Bologa, PhD, and cancer mouse models expert Helen Hathaway, PhD, also at UNM.

Tamoxifen, and drugs like it, block the estrogen receptor (ER) that resides primarily inside the cell nucleus, while fulvestrant and similar drugs induce the cell to degrade it. By blocking or degrading the estrogen receptor, these anti-hormonal drugs greatly reduce the signal for ER+ cancer cells to grow.

But Prossnitz and his team showed that these drugs also activate GPER, which signals the cells to survive and keep growing, an action not known when these drugs were developed. GPER signals may explain why some women develop resistance, he says.

Prossnitz and Arterburn worked with Sklar to find two molecules that specifically target GPER and not ER. They searched a collection of 10,000 molecules, and to save time and effort they enlisted help from Oprea and Bologa, who applied computational biology techniques to narrow down the search to more likely compounds.

The team found a highly selective agonist (activator) of GPER that they named G-1, and a selective agonist of ER that they named AB-1. They obtained a patent for the compounds in 2011.

In 2016, a startup company called Linnaeus licensed G-1 from UNM Rainforest Innovations (formerly known as STC.UNM, a non-profit that oversees the transfer of UNM-developed technology).

BASIC SCIENTIFIC RESEARCH CAN HELP A WIDE RANGE OF PEOPLE, OFTENTIMES IN UNPREDICTABLE WAYS.

Linnaeus obtained FDA approval to launch a clinical trial to use G-1 in combination with immune therapy for melanoma and other cancers. The clinical trial opened in 2019, first at UNM Comprehensive Cancer Center under the leadership of Carolyn Muller, MD, and then at other cancer centers around the country.

Prossnitz had also wondered how G-1 affects other tissues and organs in the body. In several studies on mice published in Science Translational Medicine in 2020, he, Arterburn, Hathaway and Geetanjali Sharma, PhD, showed that obese and diabetic mice lost weight and recovered from their diabetes when treated with G-1.

Prossnitz is now advising a local startup company, GPER G-1 Development Group, that is developing the molecule for diabetes and obesity. He hopes that G-1 may revolutionize the treatment of metabolic disorders.

In still other studies, Prossnitz's UNM collaborator Pamela Hall, PhD, has shown that G-1 improves the outcome of methicillin-resistant Staphylococcus aureus (MRSA) infections of the skin. Prossnitz has



ERIC PROSSNITZ, PHD

also conducted studies with international collaborator Matthias Barton, MD, that have shown the value of GPER modulation in cardiovascular and fibrotic diseases. Ongoing studies with other UNM colleagues are examining the role of GPER and the ability of G-1 to improve wound healing and inflammatory bowel disease.

Prossnitz and his team also continued to study AB-1.

In a 2019 paper published in Cell Chemical Biology, they described their studies showing AB-1's unique binding and activity behavior. In binding to the estrogen receptor, the molecule does not activate GPER and might avoid the undesirable side effect that current anti-hormonal drugs have. Prossnitz and his team are working to refine the structure of AB-1 before they progress to preclinical studies. He hopes to one day improve breast cancer treatments.

Cancer, obesity, diabetes, heart disease and infections, it turns out, have one thing (at least) in common after all. And thanks to Prossnitz's and his team's studies of this new estrogen receptor at UNM, millions of people with diverse diseases may benefit.

ROOM FOR GROWTH

CROSS-CAMPUS CONNECTIONS PAVE THE WAY FOR ENHANCED RESEARCH PARTNERSHIPS

niversity of New Mexico
Health Sciences research
is a multifaceted interdisciplinary enterprise that is building a
track record of collaborations with
specialists in multiple disciplines
throughout the university – and
beyond.

"I have been so impressed with the depth and breadth of researchers within Health Sciences and across the University as a whole," said Douglas Ziedonis, MD, MPH, executive vice president for Health Sciences and CEO of the UNM Health System. "Successful research requires us to collaborate

and look for opportunities to grow our research in the spirit of One University."

A leading example is UNM's Transdisciplinary Research, Equity and Engagement (TREE) Center, whose director is Lisa Cacari Stone, PhD, associate professor in the UNM College of Population Health.

The center, which received \$7 million in funding from the National Institute on Minority Health and Health Disparities as one of 12 Centers of Excellence, promotes research to improve behavioral health outcomes for racial, ethnic, sexual, gender and geographic

minority communities while supporting new under-represented minority investigators.

The TREE Center's team includes faculty members from the Colleges of Population Health, Pharmacy and Nursing, and the Departments of Pediatrics, Family & Community Medicine, Internal Medicine, Psychiatry & Behavioral Sciences in the School of Medicine, as well as the Central Campus Departments of Psychology, Political Sciences and Health, Exercise & Sports Sciences.

Another prominent example of interdisciplinary partnership is the



LUDMILA BAKHREVA, MD, PHD, MPH



LISA CACARI STONE, PHD



JOHNNYE LEWIS, PHD

"SUCCESSFUL RESEARCH REQUIRES US TO COLLABORATE AND LOOK FOR OPPORTUNITIES TO GROW OUR RESEARCH IN THE SPIRIT OF ONE UNIVERSITY."

Douglas Ziedonis, MD, MPH, executive vice president for Health Sciences and CEO of the UNM Health System.

UNM Metals Exposure and Toxicity Assessment on Tribal Lands in the Southwest (UNM METALS) Superfund Research Program Center, headed by Johnnye Lewis, PhD, research professor in the College of Pharmacy.

The center, the first of its kind in the nation, studies the toxic effects of mixed metals and uranium exposure on tribal communities in the Southwest – the legacy of decades of mining.

In addition to College of Pharmacy faculty members, the UNM METALs project includes colleagues from the Central Campus Departments of Computer Science, Mathematics & Statistics, Earth & Planetary Sciences, and Civil, Construction & Environmental Engineering.

Biomechanical engineer
Christina Salas, PhD, embodies
the cross-campus connection.
She is an associate professor in
the Department of Orthopaedics
& Rehabilitation, with joint
appointments in the School of
Engineering's Department of Civil,
Construction & Environmental
Engineering and Department of
Mechanical Engineering.

Her new research lab is located at the UNM Center of Excellence for Orthopedics & Rehabilitation, located on the Health Sciences Rio Rancho Campus adjacent to UNM Sandoval Regional Medical Center.

Meanwhile, HSC researchers play key roles in two of the three original Grand Challenges identified by UNM President Garnett Stokes in 2018.

The Successful Aging initiative, which seeks to compress the period of disability for New Mexico's aging population, is co-led by Janice Knoefel, MD, a geriatrician who practices at the

UNM Center for Memory & Aging, with partners in the Departments of Internal Medicine, Biochemistry & Molecular Biology, Psychology and Speech and Hearing Sciences.

The Substance Use Disorder
Grand Challenge is co-led by
Ludmila Bakhireva, MD, PhD,
MPH, professor in the College
of Pharmacy, and, on Central
Campus, Katie Witkiewitz, Regent's
professor in the Department of
Psychology. It focuses on developing new interventions to treat
addiction to alcohol, opioids and
other substances.

"We will have more collaborations to share in future years as we do strategic planning together, joint faculty and post-doc hiring and address practical aspects, such as ease of working with both our UNM institutional review boards, sharing research core services, expanded research career development and enhanced UNM-wide institutes and centers." Ziedonis said.

"The ongoing growth of our research enterprise with partners across the state will also lead to new unprecedented growth and impact."



CHRISTINA SALAS, PHD

THE UNIVERSITY OF NEW MEXICO HEALTH SCIENCES

Research 2021 Training Grants



Rosstin Ahmadian, PhD Candidate
Cell Biology & Physiology
T32 Scholar, NHLBI
Mechanism of pulmonary vasoreactivity
in response to chronic hypoxia
Mentor: Thomas Resta, PhD



Roger Atanga, PhD Candidate
Internal Medicine
K01 Scholar, NIDDK
Intestinal injury causes Wnt-dependent secretory
differentiation in human colonoids
Mentor: Julie In, PhD



Justin Baca, MD
Associate Professor, Emergency Medicine
KL2 Scholar, CTSC
Point-of-care testing, first in human device
studies, wearable sensors, interstitial fluid
analysis, breath-based diagnostics
Mentors: Erin Milligan, PhD, and
Andrew Shreve, PhD



Elizabeth Bailey, PhD
Postdoctoral Fellow, Pathology
ASERT, NIGMS
Understanding how spatial-temporal
organization of biochemical interactions between
immune receptors and their accessory molecules
shape immune receptor signaling and resulting
immune response
Mentors: Diane Lidke, PhD, and Judy Cannon, PhD



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



Eliseo Castillo, PhD
Assistant Professor, Internal Medicine
KL2 Scholar, CTSC
Macrophage and intestinal epithelial cell
interaction in inflammatory bowel disease,
Intestinal epithelial cell metabolism in
non-alcoholic fatty liver disease, studying
microplastics impact on gastrointestinal health
Mentors: Judy Cannon, PhD, Matthew Campen,
PhD, and Hengameh Raissy, PharmD



Elizabeth Clarke, PhDPostdoctoral Fellow, Internal Medicine T32, NIAID
Glycosylation of viral proteins
Mentor: Steven Bradfute, PhD



Amanda Collar, PhD Candidate
Molecular Genetics & Microbiology
T32 Scholar, NIAID; F30 Scholar, NIAID
Investigating protective antibody epitopes
in response to natural urogenital Chlamydia
trachomatis infection and engineering
prophylactic vaccine candidates for urogenital
Chlamydia trachomatis infection
Mentor: Kathryn Frietze, PhD



Thomas De Pree, PhD
Postdoctoral Fellow, College of Pharmacy
K12 Scholar, NIGMS
Community-based participatory research
and traditional ecological knowledge in metal
exposure and toxicity assessments on tribal lands
in the Southwest
Mentors: Debra MacKenzie, PhD, and
Johnnye Lewis, PhD



Daryl Domman, MDAssistant Professor, Internal Medicine
KL2 Scholar, CTSC
Transmission dynamics and evolution of pandemic cholera, genomic epidemiology of SARS-CoV-2 and understanding antimicrobial resistance
Mentors: Nestor Sosa, MD, Kimberly Page, PhD



Christian Levi Doyle, PhD Candidate
Pathology
T34 Scholar, NCI
Investigating the impact of CD82 on acute
myeloid leukemia tumor burden and cell
dormancy within the bone marrow niche
Mentor: Jennifer Gillette, PhD



Daniel Falcón, PhD
Postdoctoral Fellow, Internal Medicine
K12 Scholar, NIGMS
Studying PARP inhibition impact on the suppressive function of regulatory T cells in syngeneic models of high-grade serious ovarian cancer
Mentor: Sarah Adams, MD



Máté Fischer, PhD Candidate
Neurosciences
T32 Scholar, NIAAA
Neuroscience, developmental neurobiology, RNA
biology, stem cell biology
Mentor: Jason Weick, PhD



Muskan Floren, PhD
Postdoctoral Fellow, Pathology
F32 Scholar, NCI
Acute myeloid leukemia resistance and relapse
Mentor: Jennifer Gillette, PhD



Kathryn Frietze, PhD
Assistant Professor, Molecular Genetics &
Microbiology
KL2 Scholar, CTSC
Investigating infectious disease antibody
responses to develop new vaccines
Mentor: Bryce Chackerian, PhD



Selina Garcia, PhD
Postdoctoral Fellow, Cell Biology &
Physiology
T32 Scholar, NHLBI
Cardiovascular physiology
Mentor: Laura Gonzalez Bosc, PhD, and
Nikki Jernigan, PhD



Samuel Goodfellow, PhD Candidate
Internal Medicine
T32 Scholar, NIAID
Focusing on single-stranded, negative sense RNA
orthohantaviruses to study the dynamics of host
reservoirs and spillover into human populations
Mentor: Steven Bradfute, PhD



Lucie Jelinkova, PhD
Postdoctoral Fellow, Molecular Genetics &
Microbiology
T32 Scholar, NIAID
Biology of infectious disease and inflammation
Mentor: Bryce Chackerian, PhD



Randy Ko, PhD Candidate
Dermatology
T32 Scholar, NHLBI
Studying the G-protein-coupled estrogen receptor
and its selective ligands in metabolic disease
Mentors: Eric Prossnitz, PhD, Justin Baca, MD,
PhD, Thomas Resta, PhD



Benjamin Lantz, PhD Candidate
Cell Biology & Physiology
T32 Scholar, NHLBI
Immune response to chronic hypoxia-induced
pulmonary hypertension
Mentor: Laura Gonzalez Bosc, PhD



Milindu Liyanapathirana, PhD
Candidate
Neurosciences
K22 Scholar, NINDS
Underlying molecular mechanisms of gliogenesis
and gliomagenesis in the CNS
Mentor: Tou Yia Vue, PhD



Adrian Luna-Leon, PhD
Postdoctoral Fellow, Molecular Genetics &
Microbiology
F31 Scholar, NCI
EGFR signaling as the nexus for HPV oncogene
regulation
Mentor: Michelle Ozbun, MD



Christy Mancuso, PhD
Postdoctoral Fellow, Neurosciences
ASERT, NIGMS
Studying compound-specific amino acid isotope
measurements to understand the creation and
maintenance of protein-rich tissues
Mentor: Seth Newsome, PhD



Emily Morin, PhD
Postdoctoral Fellow, Cell Biology & Physiology
ASERT, NIGMS
Endothelial cell membrane cholesterol regulation
of vasodilatory pathways
Mentors: Jay Naik, PhD, Laura Gonzalez Bosc, PhD,
and Nancy Kanagy, PhD



Bianca Myers, PhD Candidate
Neurosciences
T32 Scholar, NIAAA
Studying the effect of adult alcohol consumption
on the progression of glioblastoma multiforme
Mentor: C. Fernando Valenzuela, MD, PhD



Sarah Olguin, PhD Candidate
Neurosciences
T32 Scholar, NIAAA
Using dura-resting EEG to evaluate PAE
effects on attention and cognitive control using
touchscreen approaches
Mentor: Jonathan Brigman, PhD



Amalia Parra, PhD
Postdoctoral Fellow, Cell Biology &
Physiology
T32 Scholar, NIH
Molecular pharmacology and toxicology
Mentor: Matthew Campen, PhD



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



Julianne Peabody, PhD Student
Research Specialist, Molecular Genetics &
Microbiology
T32 Scholar, NIAID
Biology of Infectious Disease and Inflammation
Mentors: Bryce Chackerian, PhD, and
Steven Bradfute, PhD



Gabriela Perales, PhD Candidate
Neurosciences
F31 Scholar, NIAAA
Mir-150-5p disrupts vascular development in the
brain during prenatal alcohol exposure
Mentor: Amy Gardiner, PhD



Crina (Floruta) Peterson, MD, PhD
Neurosciences
F30 Scholar, NINDS
Studying embryonic stem cell patterning in
neurons; using human pluripotent stem cellderived (hPSC) neurons to study brain tumors
and to study and treat brain injury
Mentor: Jason Weick, PhD



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



Emmanuel Rosas, PhD
Postdoctoral Fellow, Internal Medicine
ASERT, NIGMS
Role of G-protein coupled estrogen receptor in
anoikis resistance in ER+ breast cancer
Mentor: Eric Prossnitz, PhD



Raquela Thomas, PhD
Postdoctoral Fellow, Internal Medicine
ASERT, NIGMS
Oncolytic myxoma viruses
Mentors: Eric Bartee, PhD, and Alison Kell, PhD



Nicole Thompson-Gonzalez, PhD
Postdoctoral Fellow, Anthropology
K12 Scholar, NIGMS
Differentiated acute vs. cumulative environmental
effects, including socioecological influences on
mortality, critical periods in the development
of social strategies, and signatures of oxidative
damage during trauma vs. senescence.
Mentor: Melissa Emery Thompson, PhD



Megan Thursby, PhD Candidate
Cell Biology & Physiology
T32 Scholar, NHLBI
Vascular smooth muscle function in pulmonary
hypertension
Mentor: Nikki Jernigan, PhD



Leslie Toledo-Jacobo, PhD
Postdoctoral Fellow, Pathology
The role of myotonic dystrophy kinase-related
cdc42 binding kinases (MRCK) in ovarian cancer
metastatic pathway
Mentor: Angela Wandinger-Ness,
Co-mentor: Laurie Hudson



Nikole Warner, PhD
Postdoctoral Fellow, Molecular Genetics &
Microbiology
KL2 CTSC Scholar, NIGMS; T32 Scholar,
NIAID; K12 Scholar, NIGMS
Investigating antibody responses to dengue virus
using novel deep sequence-coupled biopanning
technique to develop novel vaccines
Mentors: Bryce Chackerian, PhD, Kathryn Frietze,
PhD, and Kathryn Hanley, PhD



Jesse Young, PhD
Postdoctoral Fellow, Pediatrics
T32 Scholar, NIAID
Infectious disease, epidemiology and clinical diagnostics
Mentor: Darrell Dinwiddie, PhD



Amber Zimmerman, PhD
Postdoctoral Fellow, Neurosciences
F31 Scholar, NIMH
Circular RNA contribution to behavioral
alterations in psychiatric disease
Mentor: Jonathan Brigman, PhD

Excellence in Research Awards 2021

The University of New Mexico Health Sciences' 13th Annual Research Day Awards Ceremony was held (via Zoom) on November 23, 2021. The event, hosted by Vice President Richard S. Larson, MD, PhD, recognized six scientists who were nominated by their peers and selected for recognition by a faculty committee on the basis of their outstanding research contributions.



Jonathan Brigman, PhD Neurosciences Team Science

Jonathan Brigman has been a team player since joining the UNM faculty a decade ago, and in 2014 he helped shepherd UNM's application for P50 National Institutes of Health funding for the New Mexico Alcohol Research Center. He also helped obtain P20 COBRE funding for the UNM Center for Brain Recovery and Repair. His laboratory focuses on the effect of developmental exposure to alcohol on executive function in multiple domains, including behavioral flexibility, working memory, cognitive control and reward-seeking behaviors. He has shown that even moderate exposure to alcohol during pregnancy can lead to long-term deficits in these behaviors. He currently is investigating the effects of prenatal alcohol exposure on the function of both the parietal and prefrontal cortex on attention and cognitive control.



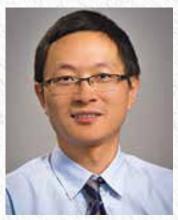
Diane Lidke, PhD Pathology Basic Science

Diane Lidke's research integrates the disciplines of biophysics, bio-imaging and quantitative biology to gain new and fundamental understanding of the components and dynamics of cell signaling pathways. Her particular expertise is in applications of fluorescence spectroscopy and microscopy to study protein dynamics and protein-protein interactions during cell signaling. She has refined important fluorescence microscopy techniques, particularly the use of biofunctionalized quantum dot nanoparticles to observe the movement and interactions of receptors on cell surfaces. She also has extensive experience with a wide range of visible fluorescent fusion proteins and molecular tags that can be introduced as transgenes to explore the distribution and interaction of signaling proteins and complexes.



Melissa Gonzales, PhD Internal Medicine Population Science

Melissa Gonzales studies the contribution of environmental exposure to health disparities. As a founder of the UNM Center for Native American Environmental Health (EH) Equity Research and a leading member of the UNM Metal **Exposure and Toxicity Assessment** on Tribal Lands in the Southwest (METALS) Superfund Center, she has explored risk reduction strategies for tribal populations. She has examined heavy metal exposures from traditional/cultural practices and the airborne transport of toxic metals from abandoned uranium mines. She has also helped lead the renewal of the Native EH Equity Center, which examines the impact of insufficient solid waste management infrastructure on emerging pollutants and health. She has been nominated to serve on several National Academies of Science, Engineering and Medicine committees.



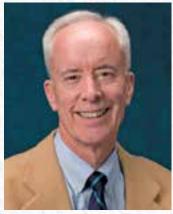
Xian Xue, PhD Biochemistry & Molecular Biology Junior Faculty

Xian Xue's research covers a broad range of subjects. He has investigated the impact of basolateral iron export machinery hepcidin-ferroportin axis on nucleotide metabolism and colon tumorigenesis and demonstrated that mitophagy protein PINK1 suppresses colon tumor growth by reducing acetyl-CoA production. He and his collaborators first reported the deaths of Chinese health care workers from COVID-19, calling for a vigorous response to prevent SARS-CoV-2 infection. He also measured anti-SARS-CoV-2 antibody levels in convalescent plasma from six donors who had recovered from COVID-19 to help establish a convalescent plasma donor screening protocol. His lab also found that hemin increased Sestrin 2, a novel tumor suppressor, in a dose-dependent fashion, and found that an iron-rich environment could suppress oxidative stress-associated cancer cell death, resulting in a net tumor-promoting effect.



Christopher Abbott, MD Psychiatry & Behavioral Sciences Clinical Science

Christopher Abbott has pioneered new approaches to treating serious mental illness with the use of electroconvulsive therapy (ECT) by focusing on ECT neuroimaging response biomarkers. His current research focuses on understanding the role of ECT pulse amplitude on electric field modeling, neuroplasticity and clinical outcomes. Important contributions include identifying neuroimaging predictive biomarkers associated with ECT response, characterizing the relationship between electric field strength and neuroplasticity and studying the association between neuroplasticity and clinical outcomes. These findings have been extended to include the assessment of changes in neuroplasticity related to ECT parameters, including electrode placement and pulse amplitude. He also is using electric field modeling and neuroimaging correlates to change ECT dosing to improve antidepressant response rates while minimizing cognitive risk.



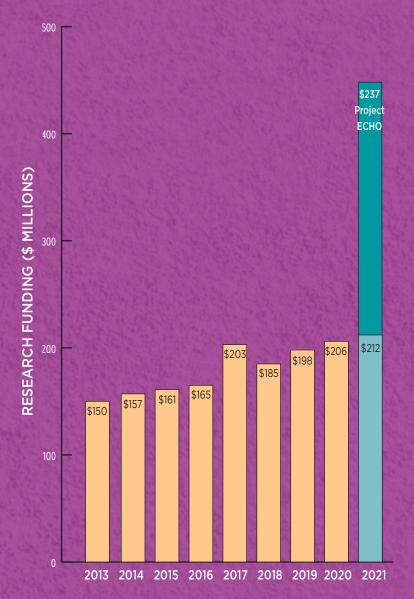
Jonathan Eldredge, MLS, PhD Health Sciences Library & Informatics Center Scholarship of Teaching and Learning

Jonathan Eldredge is internationally recognized for his continuing excellence in research on evidence-based practice teaching and learning. His passion for evidence-based practice education and research has influenced the entire trajectory of the health sciences librarianship profession. He is a pioneer in using randomized controlled trials (RCT) to study the efficacy of different methods of teaching learners how to implement evidence-based practice. Most recently, he led an RCT to study whether a rubric designed to improve medical students' ability to formulate clinical questions would be improved with the addition of a 25-minute educational session designed to teach the students skills and offer practice using the rubric. This helped demonstrate a novel and efficacious way to train medical students to ask better questions.

THE UNIVERSITY OF NEW MEXICO HEALTH SCIENCES

Contracts and Grants 2021

Grant Award Totals 2013-2021



The University of New Mexico Health Sciences research enterprise received a record \$212 million in extramural funding for FY 2021.

A one-time infusion of \$237 million for Project ECHO's collaboration with the Agency for Healthcare Research & Quality to disseminate COVID safety practices at 15,000 U.S. nursing homes brings the total to \$449 million.

Office of the Executive Vice President	31
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Cell Biology & Physiology	35
Comprehensive Cancer Center	35
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Surgery	52
UNM Hospital	52
UNM Medical Group, Inc.	52

OFFICE OF THE EXECUTIVE VICE PRESIDENT

Elizabeth Kocher

Albuquerque Healthcare for the Homeless, Inc.

Locum Tenens Services \$50,000

A. Robb McLean

City of Albuquerque

Pediatric Health/MSW Services Program
Continuation \$161,970

City of Albuquerque

Medical Director Services \$137,455

Lovelace UNM Rehabilitation Services

Pain Clinic - Professional Services \$25,000

Gary Mlady

John F. Crisler, DDS, PA

Medical Physicist Services \$25,000

Douglas Ziedonis

State of New Mexico

FEMA COVID-19 Projects \$2,000,000

OFFICE OF THE VICE PRESIDENT, HEALTH SCIENCES RESEARCH

Elizabeth Kocher

Pueblo of Jemez

Locum Tenens Services FY22 \$25,000

Miners Colfax Medical Center

Locum Tenens Services FY22

Miners Colfax \$25,000

Locum Tenens

Medical & Dental Medicine \$25,000

Miners Colfax Medical Center

Locum Tenens Services \$25,000

Pueblo of Sandia

Locum Tenens Services \$25,000

Richard Larson

UNM Foundation

Private Gifts for Research

(2nd Qtr - FY21) \$1,776,825

UNM Foundation

Private Gifts for Research

(4th Qtr - FY21) \$1,154,823

UNM Foundation

Private Gifts for Research

(3rd Qtr - FY21) \$190,842

UNM Foundation

Private Gifts for Research

(1st Qtr - FY21) \$57,638

Melissa Martinez

New Mexico Department of Health Physician, PA and NP Services

Project \$40,000

A. Robb McLean

New Mexico Department of Health

Locum Tenens Program DOH Physician,
PA and NP Services \$75.000

New Mexico Department of Health
Locum Tenens Program DOH Physician,
PA and NP Services - Non-Specific
Supplement \$67,805

The Bell Group, Inc.

Professional Services: UNM Center for Life - Continuation \$25,000

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

Center for Infectious Disease & Immunity

Michelle Ozbun

National Institute of Allergy and Infectious Diseases Biology of Infectious Disease and

Inflammation
Terry Wu

Supplement

Advanced Technology International

Mod 4 - Nanolipoprotein Particle-Based

Subunit Vaccine Against Pneumonic

Tularemia - Supplement \$1,200,000

Advanced Technology International Mod 3 Nanolipoprotein Particle-Based Subunit Vaccine Against Pneumonic Tularemia - Non-Specific

\$500,000

\$298,025

Advanced Technology International
Mod 2 - Nanolipoprotein Particle-Based
Subunit Vaccine Against Pneumonic
Tularemia - Non-Specific
Supplement \$87,360

Health Sciences Library & Informatics Center

Jonathan Pringle

University of North Texas Health Sciences Center

Native Health Database Metadata Migration

Center for Memory & Aging

Janice Knoefel

Lilly USA, LLC

Donanemab in Early Symptomatic

Alzheimer's Disease (TRAILBLAZER-ALZ 2)

Clinical Trial Phase 3 \$588.843

Gary Rosenberg

National Institute on Aging
N.M. Alzheimer's Disease Research
Center \$1,069,505

HSC OFFICE OF RESEARCH

Andrew Hsi

Bernalillo County

ADOBE ABC

\$126.327

\$24,348

Larissa Myaskovsky

National Institute on Minority Health and Health Disparities

Access to Kidney Transplantation in Minority

Populations - Continuation \$559,424



National Institute on Minority Health and Health Disparities Access to Kidney Transplantation in Minority Populations \$480,005

National Institute on Minority Health and Health Disparities Access to Kidney Transplantation in Minority Populations - Non-Specific Supplement \$62,157

Gary Rosenberg

National Center for Research Resources
MRI and CSF Biomarkers of White Matter
Injury in VCID - Continuation \$1,105,721

CLINICAL & TRANSLATIONAL SCIENCE CENTER

Justin Baca

Beckman Coulter Inc.

Access Natriuretic Peptide Assay(s) ED

Pivotal – Subject Enrollment and Specimen

Collection \$357,120

Autonomous Medical Devices Inc.

COVID19- AMDI-Autolab-20-01 \$159,219

Clear Creek Bio Inc.

CRISIS COVID Clinical Trial \$129,115

Abbott Point of Care Inc.

Abbott Creatinine POC \$83,648

National Institutes of Health

R03 - Quantifying Heavy Metals in

Interstitial Fluid for Remote Monitoring

of Chronic Exposures \$75,750

RingIR

COVID-19 Rapid Molecular Identification of COVID-19 Via Runtime Breath Analysis \$25,000

Lee Brown

Ohio State University
The Impact of Low-Flow Nocturnal Oxygen
Therapy on Hospital Readmission/Mortality
in Patients With Heart Failure and
Central Sleep Apnea: a Pragmatic Trial
Year 3 \$65,128

Lisa Cacari-Stone

Research Triangle Institute WEAVE N.M. \$706,573

Matthew Campen

National Center for Advancing Translational Sciences

HSC Clinical & Translational Science Center KL2 2020-2025 - Continuation \$394,876

Eliseo Castillo

National Institute of Environmental Health Sciences

Defining the Harmful Effects of Microplastics on Gastrointestinal Health \$112,499

Daryl Domman

Centers for Disease Control and Prevention Genomic Sequencing and Phylodynamic Analysis of SARS-CoV-2 in the Mountain West USA \$747,885

Los Alamos National Laboratory
Phylodynamic Methods for Actionable
Understanding of the COVID-19
Pandemic \$30,800

Association of Public Health Laboratories
COVID-19 APHL Data Analysis Wyoming \$22,654

Brandi Fink

Seattle Children's Hospital
Heal Surgerypal Referral Study \$4,000

Kathryn Frietze

National Institutes of Health
Bacteriophage Virus-Like Particle Vaccines
Against Dengue Virus Non-Structural
Protein 1 - Continuation \$227,250

Michelle Harkins

Leidos, Inc
COVID19: Adaptive COVID-19 Treatment
Trial - Non-Specific Supplement \$266,000

COVID19: Adaptive COVID-19 Treatment
Trial (ACTT4) \$220,00

Leidos, Inc
COVID19: Adaptive COVID-19 Treatment
Trial - Continuation \$218.000

Vanderbilt University Medical Center
PEER (ACTIV 4d RAAS) \$215,200

Alberta Kong

University of Arkansas

DCOC Leadership Committee \$47,576

University of Arkansas *lamhealthy Medical Monitor* \$47,516

Richard Larson

University of Nevada, Las Vegas
Institutional Development Award Program
Infrastructure for Clinical and Translational
Research: BERD - Continuation \$206,596

University of Utah

Clinical & Translational Science Center

Opioid ECHO (Arora) \$155,587

University of Nevada, Las Vegas
Institutional Development Award Program
Infrastructure for Clinical and Translational
Research: PDC - Continuation \$149,244

Dialysis Clinic, Inc.

Kidney Pilot Project Award
Continuation \$100,000

University of Nevada, Las Vegas CTR-IN Multi-Site Pilot (Round 8): Evaluation of Secondary Prevention \$78,607

University of Nevada, Las Vegas
Institutional Development Award Program
Infrastructure for Clinical and Translational
Research: T&E - Continuation \$40,352

University of Pittsburgh

NCATS Accrual to Clinical Trials Project Continuation \$37,876

University of Nevada, Las Vegas
Institutional Development Award Program
Infrastructure for Clinical and Translational
Research: CEO - Continuation \$16,145

Eric Prossnitz

Virtici, LLC

ASCEND - Continuation (Yr3) \$819,373

Hengameh Raissy

Eunice Kennedy Shriver National Institute of Child Health and Human Development UNM Pediatric Clinical Trials Center in IDeA States Pediatric Clinical Trials \$416,580

University of Arkansas VDORA

DORA \$159,205

University of Arkansas

Data Coordinating and Operations Center for the IDeA States Pediatric Clinical Trials Network - VDORA - Continuation \$108,909

Jay Raval

Johns Hopkins University School
of Medicine
Convalescent Plasma Randomized
Clinical Trials for Early COVID-19
Treatment
\$881,380

Vanderbilt University Medical Center COVID19- PASSITON \$213,812

Johns Hopkins University School of Medicine

Convalescent Plasma Randomized Clinical Trials for Early COVID-19 Treatment -Non-Specific Supplement \$28,900

Joao Teixeira

University of California, San Diego COVID19- RAMIC Trial \$33,040

COLLEGE OF NURSING

Katherine Zychowski Bufford

National Institute of Environmental Health Sciences

Neurovascular Consequences of Inhaled Uranium Mine-Site Dust Exposure -Continuation \$247,336

Mary Couig

Department of Veterans Affairs

VA Office of Nursing Services IPA \$21,828



Elizabeth Dickson

National Association of School Nurses
COVID-19 Impact on School Nurses and
Delivery of School Health \$19,478

Stephen Hernandez

Geneva Foundation
Improving Resiliency in U.S. Air Force
Healthcare Personnel \$359,258

Judy Liesveld

Bureau of Health Workforce

Nurse Education, Practice, Quality and

Retention - Veteran Nurses in Primary Care Continuation \$386,601

Janice Martin

City of Albuquerque

GEHM Clinics - Existing and

Expansion \$120,000

City of Albuquerque

Caregiver Training Program \$119,576

Carolyn Montoya

Presbyterian Healthcare Services

ANE-NPR Program - Continuation \$101,618

El Pueblo Health Service

El Pueblo Health Services \$71,544

College of Pharmacy

COLLEGE OF PHARMACY

Ludmila Bakhireva

National Institute on Alcohol Abuse and Alcoholism

The Effect of the COVID-19 Pandemic on Alcohol Use and Psycho-Somatic Health in Pregnant and Postpartum Women With Intersecting Vulnerabilities -

Supplement \$134,896

National Institute on Alcohol Abuse and Alcoholism

ENRICH-2: Stress-Reactivity and Self-Regulation in Infants With Prenatal Alcohol Exposure - Continuation \$660,723

Barry Bleske

University of Michigan
Genetic Determinants of ACEI Prodrug
Activation - Continuation \$16.612

Sarah Blossom

National Institutes of Health

Epigenetic Modulation of CD4 + T Cell

Differentiation and Autoimmunity by

Trichloroethylene \$270,193

Arkansas Children's Research Institute

COBRE Junior Investigator Mentor \$12,323

Scott Burchiel

National Institutes of Health
Developmental Exposures to Arsenic:
Pneumonia, Immunity and
Microbiomes \$643.862

Matthew Campen

National Institutes of Health

New Mexico Center for Metals in Biology

and Medicine - Continuation \$2,277,209

National Institutes of Health
New Mexico Center for Metals in Biology
and Medicine - Specific
Supplement \$757,295

National Institutes of Health
Inhalation of Contaminated Mine Waste
Dusts as a Route for Systemic Metal Toxicity
- Continuation \$470,664

National Institute of Environmental Health Sciences Mechanisms of Vascular Toxicity From Inhaled Toxicants -

Continuation \$324,648

Baylor College of Medicine
Notification of Access to Toxic Effects
of Ecigs Following Transition From
Conventional Cigarettes Continuation \$109,523

Melanie Dodd

First Nations Community Healthsource, Inc.
First Nations Community Healthsource, Inc.
- Continuation \$33,788

Hospice of New Mexico

Consultant Pharmacist - Hospice of New

Mexico - Continuation \$13,151

Esther Erdei

Missouri Breaks Industries Research, Inc.
COVID-19 Consultation Agreement With
MBIRI \$2,000

Linda Felton

Department of Veterans Affairs

Formulation and Batch Records for
the VA Medical Center in Albuquerque,

N.M. \$33,084

Changjian Feng

National Science Foundation
Conformations and Dynamics of Modular
Redox Enzymes via Site-Specific 2D
Infrared Spectroscopy \$651,450

National Institutes of Health
Defining the Conformational Control of
Nitric Oxide Synthases by a Multipronged
Approach \$327,056

Bryan Grassel

OptumCare New Mexico
OptumCare Pharmaceutical Services Continuation \$242,182

Department of Veterans Affairs
Radiopharmaceutical Goods and Services Continuation \$151,933

Sandia National Laboratories
Sandia Isotope Request Tc99m \$1,400

Pamela Hall

National Institute of Allergy and Infectious
Diseases
Vaccine-Mediated Control of Bacterial
Virulence Regulation and Infection Continuation \$383,039

Johnnye Lewis

National Institutes of Health
Understanding Risk Gradients From
Environment on Native American Child
Health Trajectories: Toxicants, Immunomodulation, Metabolic Syndromes & Metals
Exposure - Continuation \$4,249,553

National Institutes of Health
Understanding Risk Gradients From
Environment on Native American Child
Health Trajectories: Toxicants, Immunomodulation, Metabolic Syndromes, & Metals
Exposure - Continuation \$4,242,490

National Institute of Environmental Health Sciences

UNM Metal Exposure Toxicity Assessment on Tribal Lands in the Southwest Superfund Research Program -

Continuation

\$1,462,535

National Institutes of Health Center for Native American Environmental Health Equity Research -Renewal \$1,365,205

National Institutes of Health Supplement to Understanding Risk Gradients From Environment on Native American Child Health Trajectories: Toxicants, Immunomodulation, Metabolic Syndromes, & Metals Exposure - Specific Supplement \$320,875

Ke Jian (Jim) Liu

National Institutes of Health Mutational Signatures of a Combined Environmental Exposure: Arsenic and Ultraviolet Radiation -

Continuation \$510,966

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

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

National Institutes of Health The 11th Conference on Metal Toxicity and Carcinogenesis \$8,000

Debra MacKenzie

National Institutes of Health Center for Native American Environmental Health Equity Research - Renewal -Continuation \$1,359,847

Duke University

Using Silicone Wristbands as Non-Invasive Passive Environmental Monitors to Evaluate Seasonal and Within-Family Correlation for Environmental Exposures. -Continuation \$1,672

Renee-Claude Mercier

International Health Management Associates,

Shionogi BMD US Surveillance \$6,000 Program

Syneos Health Viiv Healthcare Observational Research Study Agreement \$3,000

Pavan Muttil

Virtici, LLC

Multi-Layered Microneedles for Delivering VLP-Based Vaccines \$50,000

Lynntech, Inc.

An Inhaled Clofazimine Formulation for the Treatment of Tuberculosis - Non-Specific Supplement \$43,990

Nob Hill Therapeutics, Inc.

A Simple and Efficient Outpatient Dry Powder Amphotericin B-Dryneb (Dry Powder Nebulizer) for Treatment of Susceptible and Multidrug-Resistant Aspergillus/Fungal Infections in Cystic Fibrosis, COPD, Asthma, Lung Transplant and Other Pulmonary Diseases \$30,000

Sara Nozadi

Duke University

Attentional Mechanisms Underlying of Information Processing in a Sample of \$31,422 Navajo Children - Continuation

Susan Smolinske

New Mexico Department of Health COVID-19 Coronavirus All Hazards \$891,600 Line

New Mexico Department of Health COVID-19 Coronavirus All Hazards Line -Specific Supplement \$451,442

New Mexico Department of Health COVID-19 Coronavirus All Hazards Line \$451,046

Health Resources and Services Administration Poison Center Stabilization and Enhancement Program -Continuation

Denver Health and Hospital Authority Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #16 - Continuation \$12,500

\$133,287

Texas Tech University Pediatric Environmental Health Specialty \$10,000 Unit Program

American College of Medical Toxicology MOU Toxic North American Snake Bite Registry - Continuation \$8,165

COLLEGE OF POPULATION HEALTH

Lisa Cacari-Stone

National Institute on Minority Health and **Health Disparities** TREE Center for Advancing Behavioral Health - Continuation \$1,390,938 National Institute on Minority Health and Health Disparities Examining the Variable State and Local COVID-19 Policy Impacts on the Health of Racial, Ethnic and Rural Health Disparity **Populations** \$189,376

National Institute on Minority Health and Health Disparities TREE Center - Diversity Supplement to Promote Diversity in Health-Related \$73,128 Research

New Mexico Department of Health New Mexico Maternal Child Health Epidemiology Practicum Project - Non-Specific Supplement \$5,000

Murlynn Lee

University of Washington Examining Health and Social Indicators Among Native American Cisgender and Transgender Women Who Engage in Sex \$21,600 Work in an Urban Environment

Gilead Sciences

Examining Sociocultural Influences, Knowledge, and Acceptability of Biomedical HIV Prevention Methods: Native American College Students - Continuation

Francisco Soto Mas

University of Texas Health Center at Tyler Health, Safety and Psychosocial Organic Farming Survey - Continuation \$94,578

McKinley County McKinley County Project - Continuation Yr4 \$46,140

McKinley County McKinley County Project - Continuation Yr3 \$31,640

Bernalillo County Bernalillo County Senior Services Project -Continuation Yr2 \$25,000

Bernalillo County Bernalillo County Senior Services Project -Continuation

University of Texas Health Center at Tyler COVID-19 Survey of Organic **Farmers** \$10,000

Victoria Sanchez

Presbyterian Healthcare Services New Mexico Community Voices \$64,999

Tammy Thomas

University of Texas Health Center at Tyler Grow the Grower Safety & Health Training and Evaluation \$12,000

Kristine Tollestrup

Tulane University

ACA - Public Health Training Centers -\$34,440

Continuation Year 3

Bernalillo County

ABC Code Book Project \$5.250

Nina Wallerstein

Patient-Centered Outcomes Research Institute

Engage for Equity Plus: Advancing Research Support for Equity-Based Partnerships With Institutions, Patients and Other Stakeholders \$250,000

National Institute on Aging Neighborhoods, Sexual Orientation, Race/Ethnicity & Smoking Across the Adult Lifespan: A Multilevel Intersectional \$68,660 Assessment

Columbia University

An Experimental Investigation Into the Impact of Socioeconomic Context on Biological Markers of Aging, Health and Mortality - Continuation \$20,877

AltaMed Health Services Corporation HEAL Through PCOR - Non-Specific Supplement \$4,000

SCHOOL OF MEDICINE

Anesthesiology & Critical Care Medicine

Eugene Koshkin

Medtronic

UNM Pain Medicine Fellowship 20-21: Medtronic \$15,000

Boston Scientific Corporation UNM Pain Medicine Fellowship 20-21: Boston Scientific \$5,000

John Rask

Vanderbilt University Medical Center Simulation Multicenter Project -\$50.068 Continuation

Karin Westlund-High

Defense Health Program Chronic Pain Relief Therapeutic \$1,298,324

Bessor Pharmaceuticals Renalase Reduction of High-Fat Pancreatitis Pain \$25,000

Biochemistry & Molecular Biology

William Hines

Lawrence Livermore National Laboratory Aliquot Creation and Storage, Creation of Medium, Filtration, Bacterial Testing \$2,000



Meilian Liu

National Institute of Diabetes and Digestive and Kidney Diseases

The Role of Adiponectin in Regulating Type 2 Innate Lymphoid Cells and Browning of Fat - Continuation \$401.470

Vallabh Shah

National Institute on Minority Health and Health Disparities

Standing Strong in Tribal Communities: Addressing Elder Falls Disparity \$543,623

Patient-Centered Outcomes Research

COVID-19 HBKC in Native Americans of New Mexico \$282,877

Cell Biology & Physiology

Amy Gardiner

National Institute on Alcohol Abuse and Alcoholism

Mir-150-5p Disrupts Vascular Development in the Brain During Prenatal Alcohol Exposure \$37,030

Laura Gonzalez-Bosc

National Heart, Lung, and Blood Institute Novel Collagen V-Reactive Natural Th17 Cells in Hypoxic Pulmonary Hypertension \$378,750

Nikki Jernigan

National Institutes of Health Vascular Smooth Muscle Function in Pulmonary Hypertension -\$378.750 Progrep 2021

Sara G.M. Piccirillo

The Ivy Foundation Targeting Inflammatory Cells in Glioblastoma Residual Disease \$600,000

Thomas Resta

National Institutes of Health Minority Institutional Research Training Program (T32) \$433,727

Comprehensive Cancer Center

Sarah Adams

Army Medical Research Acquisition Activity Impact of Estrogen Signaling on Tumor Immunity and Response to Immune Therapy in Ovarian Cancer \$378.750

National Cancer Institute Mechanisms of Selective Therapeutic Synergy of PARP-Inhibition and CTLA4 Blockade Engaged by Interferon-Gamma in the Ovarian Tumor Microenvironment \$348,835

Prajakta Adsul

NRG Oncology

Exploring the Implementation Context of Community Oncology Practices for Lifestyle Interventions

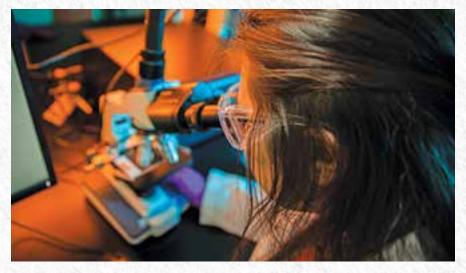
New Mexico Department of Health Cancer Prevention and Control Program for New Mexico \$10,000

New Mexico Department of Health Cancer Prevention and Control Program for N.M. \$10,000

Leslie Andritsos

Oregon Health & Science University SWOG NCORP Research Base \$30,000

Oregon Health & Science University SWOG Network Operations Center of the **NCTN** \$30,000



Eric Bartee

National Institute of Allergy and Infectious Diseases

Rationally Combining Oncolytic Virotherapy and TIM3 Blockade - Non-Specific Supplement \$155,796

National Cancer Institute
Treatment of Multiple Myeloma Using
Oncolytic Myxoma Virus - Non-Specific
Supplement \$134,861

Marianne Berwick

National Cancer Institute
Sex Differences in Methylome Alterations
and Mutational Burden in Early Stage
Melanoma \$112,686

National Cancer Institute
Sex Differences in Methylome Alterations
and Mutational Burden in Early Stage
Melanoma \$95,969

Cynthia Blair

National Cancer Institute
Improving Physical Functioning in Older
Cancer Survivors Through Light-Intensity
Physical Activity \$154,404

Ursa Brown-Glaberman

New Mexico Cancer Care Alliance Clinical Trial Phase 3 \$117,320

New Mexico Cancer Care Alliance Clinical Trial Phase 3 \$113,480

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$113,480

New Mexico Cancer Care Alliance

DARE \$103,880

Linda Cook

National Cancer Institute
A Population-Based Study of Ketorolac
and Ovarian Cancer Survival Continuation \$354,794

Zoneddy Dayao

New Mexico Department of Health

Development and Delivery of Cancer

Survivorship Cancer Plans \$9,520

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

Hakim Djaballah

Leidos, Inc

BASE Project/MGMT: NCI Experimental
Therapeutics Chemical Biology Consortium Continuation \$75,767

Dolores Guest

Consulate of Mexico in Albuquerque

Ventanilla De Salud 2020 \$36,000

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

University of Chicago
Phase 1 Trial of Ruxolitinib in Combination
With a Pediatric Based-Regimen for
Adolescents and Young Adults With Ph-Like
Acute Lymphoblastic Leukemia \$33,892

Neda Hashemi

New Mexico Cancer Care Alliance
Clinical Trial Phase 1/2 \$113,480

Miria Kano

University of Texas MD Anderson Cancer Center Curriculum Development for SGM Cancer-MDACC \$18,301

Ichiko Kinjo

Ovarian Cancer Research Alliance
A Novel Mechanism of the
Immunomodulatory \$450,000

Atul Kumar

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$116,680

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$116,680

New Mexico Cancer Care Alliance
Clinical Trial Phase I/2 \$116,680

New Mexico Cancer Care Alliance Clinical Trial Phase 3: REVIVAL (AP-recAP-AKI-03-01) \$116,680

Peng Mao

National Institute of Environmental Health Sciences

TC-NER in the Repair and Mutagenesis of DNA Alkylation Damage \$56,757

Dario Marchetti

National Cancer Institute

Mechanisms of Melanoma Brain Metastasis
by CTCs Isolated From Patients' Blood Supplement \$199,762

National Cancer Institute
Functional Characterization of
Brain-Colonizing Breast Cancer CTC
Subsets \$166,912

National Cancer Institute

Mechanisms of Melanoma Brain

Metastasis by CTCs Isolated From Patients'

Blood \$156,143

National Cancer Institute
Functional Characterization of BrainColonizing Breast Cancer CTC Subsets Continuation \$30.114

National Cancer Institute

Mechanisms of Melanoma Brain Metastasis
by CTCs Isolated From Patients' Blood Non-Specific Supplement \$18,319

Jean McDougall

Wake Forest University
Food Insecurity in Oncology \$61,496

Rutgers, The State University of New Jersey
Comparative Effectiveness of Interventions
to Increase Guideline-Based Genetic
Counseling in Ethnically and Geographically
Diverse Cancer Survivors
\$23,364

Shiraz Mishra

National Institutes of Health
Enhancing Prevention Pathways Towards
Tribal Colorectal Health \$551,340

Carolyn Muller

National Cancer Institute

NCORP - Continuation \$1,767,135

New Mexico Cancer Care Alliance

GOG 3038 \$116,832

New Mexico Cancer Care Alliance

Clinical Trial Phase 3 \$113,480

Scott Ness

National Institutes of Health Mutations and Target Genes in Adenoid \$359,813 Cystic Carcinoma

Adenoid Cystic Carcinoma Research

Foundation

ACCRF Data Analysis \$24.762

Michelle Ozbun

American Cancer Society American Cancer Society Institutional Research Grant - Diversity in Cancer

Research Internship Grant

Supplement \$22,000

Eric Prossnitz

National Cancer Institute Molecular Mechanisms and Applications of Novel ER/GPER-Selective Ligands \$320,000

National Cancer Institute G Protein-Coupled Estrogen Receptor GPER and Breast Carcinogenesis \$158,942

GPER G-1 Development Group LLC Development of Innovative Diabetes Therapeutics Via GPER Targeting \$132,987

Teresa Rutledge

Foundation for Women's Cancer Critical Decisions: Decision-Making at Time of Clinical Trial Consideration \$75,000

Wake Forest University Research Services Agreement - NCORP Research Base \$700

Wake Forest University Wake Forest NCORP Research Base \$700

Alan Tomkinson

National Institute of General Medical Sciences

Cellular Functions of Eukaryotic DNA Ligases \$369,502

Lovelace Biomedical & Environmental Research Institute DNA Repair Capacity Assays for Lung

Disease Risk Assessment \$96.089 Lovelace Biomedical & Environmental Research Institute

DNA Repair Capacity Assays for Lung Disease Risk Assessment (Supplement \$74,165 Award)

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

Cosette Wheeler

Hologic

HPV Test Utilization and Outcomes: A Study From the New Mexico HPV Pap \$154,000 Registry

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

Charles Wiggins

National Cancer Institute Surveillance Epidemiology and End Results Program - Continuation \$3,065,995

National Cancer Institute Pediatric Cancer Whole Slide **Imaging**

National Cancer Institute

SEER Patterns of Care 2021 \$73,143

Westat

Health Information National Trends Survey \$17,990

Cheryl Willman

Supplement

National Cancer Institute Engagement of American Indians of Southwestern Tribal Nations in Cancer Genome Sequencing \$3,701,064

Memorial Medical Center Physician Services

Children's Hospital of Philadelphia Clinical Trial Agreement - Non-Specific

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

Children's Hospital of Philadelphia Phase 3 Randomized Trial of Inotuzumab Ozogamicin for Newly Diagnosed High-Risk B-ALL: Risk-Adapted Post-Induction Therapy for High-Risk B-ALL, Mixed Phenotype Acute Leukemia and Disseminated B-LLy (1732 Study) \$236,292

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

Brigham and Women's Hospital Biomarker, Imaging and Quality of Life Studies Funding Program A041501

Brigham and Women's Hospital Biomarker, Imaging and Quality of Life Studies Funding Program \$86,269

\$86,367

Cecilia Arana Yi

New Mexico Cancer Care Alliance Clinical Trial Agreement - Phase 1 -\$54,025 Non-Specific Supplement

Dental Medicine

Gary Cuttrell

New Mexico Higher Education Department Train Dentists to Treat Pediatric and Developmentally Delayed Patients \$900,000

New Mexico Department of Health Basic Oral Health Services \$105,000

New Mexico Department of Health Basic Oral Health Supplement \$20,045

Dermatology

Emily Altman

\$74,932

\$728,638

\$522,432

Parexel International Be Heard \$79.211

John Durkin

University of Pennsylvania A Pragmatic Trial of Home- vs. Office-Based Narrow Band Ultraviolet B Phototherapy for the Treatment of Psoriasis (LITE Study) \$176,035

Pfizer, Inc. B7981027-Pfizer

\$75,534

ECHO Institute

Sanjeev Arora

Agency for Healthcare Research and Quality National Nursing Home COVID-19 Safety ECHO Program \$237,224,446

Health Resources and Services Administration South Central AIDS Education and Training Center Program - Continuation \$3,159,428

Health Resources and Services Administration South Central AIDS Education and Training Center Program - Year 3 \$3,132,205

The ELMA Foundation

The Audacious COVID Project \$3,000,000

National Philanthropic Trust \$3,000,000 The Audacious COVID Project

Roche Pharmaceuticals, Inc. Project ECHO: Enhancing Access to Cancer Treatment in Cote D'Ivoire Indonesia, Pakistan and the Philippines \$2,216,174

Valhalla Charitable Foundation
The Audacious COVID Project - Valhalla
Charitable Foundation \$2,000,000

Merck Company Foundation
COVID-19 Response in Kenya, South Africa
and Uganda \$1,500,000

Silicon Valley Community Foundation

Agency for Healthcare Research and Quality COVID-19 Preparedness/Response in Nursing Homes PHASE II - Continuation \$737,037

The Audacious COVID Project \$1,000,000

HHS Assistant Secretary for Preparedness and Response ECHO ASPR COVID-19 Clinical Rounds Program \$500,000

New Mexico Corrections Department

N.M. Department of Corrections Hepatitis C
Continuation \$500,000

HHS Assistant Secretary for Preparedness and Response ECHO-ASPR COVID-19 Clinical Rounds Program - Specific Supplement \$500,000

Indian Health Service
IHS and ECHO Institute Partnership to
Reflect Impact of COVID-19
Programs \$499,700

Health Resources and Services
Administration
South Central AIDS Education and Training
Center Program - Spec Supplement
Yr 2 \$395,061

Genentech Foundation

ILD Collaborative: Interstitial Lung Disease

ECHO Program \$308,987

New Mexico Corrections Department
Re-Entry ECHO Program: Supporting
PEP Graduates As Peer Support
Workers \$275,000

National Center for Chronic Disease
Prevention and Health Promotion
ECHO Partnership for Development of
Virtual Communities of Practice for CDC
Country Leadership \$224,389

Northwest Portland Area Indian Health Board Indian Health Service TeleECHO Clinic Support - Continuation \$223,000

Health Resources and Services
Administration
SC AETC Collaboration With Bureau of
Primary Health Care \$200,000

JHPIEGO Corporation

ECHO Support for Building Health Worker

Capacity Through the Urban Health Initiative

Program in Afghanistan \$194,049

New Mexico Corrections Department

N.M. Corrections Department Hepatitis C Continuation \$190,644

University of California, Davis

ECHO Support for Multinational Health

Education Networks in Africa and Southeast

Asia - Continuation \$151,018

Robert Wood Johnson Foundation

ECHO-RWJF Partnership for Amplifying

COVID-19 Response \$150,000

Agency for Healthcare Research and Quality COVID-19 Preparedness/Response in Nursing Homes \$135,000

Chronic Liver Disease Foundation
Chronic Liver Disease Foundation and
ECHO Partnership \$114,000

Elizabeth Glaser Pediatric AIDS Foundation
ECHO/EGPAF Partnership for Infection
Prevention Control \$111,000

JHPIEGO Corporation

JHPIEGO Healthcare Workforce 2021

(HW21) - Continuation \$105,000

Open Road Alliance
ECHO for Education: Social Emotional
Learning \$100,000

John D. & Catherine T. MacArthur Foundation Planning Grant for MacArthur Foundation 100&Change Competition \$100,000

New Mexico Public Education Department

ECHO-PED Partnership for Social Emotional

Learning \$100,000

New Mexico Corrections Department
Re-Entry ECHO Program: Supporting PEP
Graduates As Peer Support Workers Specific Supplement \$90,000

Health Resources and Services
Administration
South Central AIDS Education and
Training Center Program - Specific
Supplement \$84,376

Northwest Regional Education Cooperative Developing an Integrated Model for Infant and Toddler Mental Health \$75,000

Elizabeth Glaser Pediatric AIDS Foundation ECHO/EGPAF Partnership Haiti Lab Strengthening \$67,125 Miners Colfax Medical Center Technical Support for Miner's Wellness

\$65,002

University of California, Davis
ECHO Support for Multinational Health
Education Networks in Africa and Southeast
Asia - Non-Specific Supplement \$49,521

Stanford University
Stanford University T1d Support and
Technical Assistance - Continuation \$43,874

Elizabeth Glaser Pediatric AIDS Foundation EGPAF/ECHO Cholera Surveillance\$34,955

USAAFRICOM/USNAVAF

USAAFRICOM/USNAVAF ECHO Malaria

Conference \$32,771

Clinton Health Access Initiative

ECHO Support for Global Webinars
to Improve HIV Care in the COVID-19

Era \$30,000

World Health Organization

ECHO Partnership With the World Health

Organization for Infection Prevention and

Control Webinar Series \$30,000

The Task Force for Global Health
ECHO/TEPHINET Partnership for Infection
Prevention Control \$29,250

Penn State University
ECHO-Penn State Partnership for Geriatric
Infection Control RCT \$24,687

World Health Organization

ECHO Support for WHO Infection

Prevention and Control Global Webinar

Series \$24,135

New Mexico Public Education Department
ECHO for Community Schools
Program \$22,000

U.S. Air Force Europe & Air Forces Africa
ECHO Partnership With USAFE-AFAFRICA
Conference Support \$20,694

World Health Organization
WHO 15 Video Session for Access to
COVID-19 Tools \$18,000

Elizabeth Glaser Pediatric AIDS Foundation ECHO/EGPAF IPC Global Webinar Series Brazil (TO3) \$15,000

Elizabeth Glaser Pediatric AIDS Foundation ECHO-EGPAF Partnership for Infection Prevention Control - Specific Supplement \$11,751

CDC Foundation

Cryptococcal Screening and Treatment for

National Implementation \$10,621



PNM Resources Foundation
COVID-PNM Resources Community Support
for COVID-19 \$10,000

Fort Defiance Indian Hospital

ECHO Support for Navajo American Rural

Emergency Medical Conference \$8,867

World Health Organization
ECHO Support for WHO Private Sector
Meetings \$8,000

Montanas del Norte AHEC

ECHO-AHEC Partnership for HRSA COVID

Cares Act \$5,664

World Health Organization

WHO 15 Video Session for Access to

COVID-19 Tools - Continuation \$2,875

Emergency Medicine

Danielle Albright

New Mexico Crime Victims Reparation
Commission
Coordination of Domestic Violence Death
Review \$140.000

New Mexico Crime Victims Reparation Commission

Coordination of Domestic Violence Death Review \$140,000

New Mexico Crime Victim Reparations Commission

Senate Memorial 50 \$8,542

Justin Baca

University of Arizona
Clinical Trial of COVID-19 Convalescent
Plasma in Outpatients \$62,143

Laura Banks

New Mexico Transportation Department

Pedestrian Safety Initiative \$300,000

Darren Braude

Department of the Air Force

UNM Educational Service Agreement FY20 Non-Specific Supplement \$495,480

Department of the Air Force

UNM Educational Service Agreement FY20 Non-Specific Supplement \$495,480

Gypsum Medical Associates of New Mexico, P.C.

Medical Directorship/Professional Services -Continuation \$52,080

Department of the Air Force

UNM Educational Service Agreement FY20 Non-Specific Supplement \$43,200

City of Rio Rancho

Medical Director Services FY22 City of
Rio Rancho \$39,060

City of Rio Rancho

Medical Director Services
Continuation \$37,200

Wilderness Medics, Inc.

K&I Field Services

Professional Services -Continuation \$25,000

Medical Direction and Care Continuation \$25,000

Wilderness Medics, Inc.

Professional Services (W/BAA) \$25,000

City of Rio Rancho

Emergency Medicine Services \$11,025

City of Rio Rancho

Emergency Medicine Services \$10,500

National Park Service

Zion National Park BLS Refresher Continuation \$7,250

Medevac Foundation
COVID-19 Exposure in Air Medical
Transport \$3,425

Quick Draw

Medical Directorship
Continuation

ntinuation \$880

Cameron Crandall

Yale University
CTN-0099: Emergency DepartmentINitiated BupreNOrphine VAlidaTION
Network Trial \$169,263

Syneos Health
Intervexion/METH-OD / M200c-2101 / a
Phase 2a Study CTA \$96,182

Yale University
CTN-0099: Emergency Department-Initiated
Buprenorphine Validation Network Trial Supplement \$71,878

U.S. Department of Justice
U.S. Attorney Expert Witness ContractCrandall \$8,076

Joy Crook

New Mexico Department of Health
FY21 N.M. DOH Statewide EMS Continuation \$50,000

Jon Kenneth Femling

Bamlanivimab- COVID-19

I-Mab Biopharma Co. Ltd.
Safety and Efficacy of TJ003234 in Subjects
With Severe COVID-19 \$336,955

Olive View Medical Center - UCLA

EMERGEncy IDnet:Emergency Department
Sentinel Network for Surveillance of
Emerging Infections - Continuation \$11,363

Light Al, Inc.

Post-Infection Strepic Sub Study \$10,920

Lilly USA, LLC

\$10.790

Abbott Diagnostics
ABBOTT ID Now 2.0 \$5,000

TriCore Reference Laboratories

Task Order #15 for Techlab, Inc. \$4,705

TriCore Reference Laboratories

Task Order #16 for Raytheon BBN
Technologies \$3,200

Dorothy Habrat

Bernalillo County Fire Department

Medical Director Services Continuation \$63,053

Bernalillo County Fire Department

Medical Directorship FY22 Bernalillo

County Fire \$63,053

Albuquerque Sexual Assault Nurse New Mexico Department of Health **Chelsea White** Transdisciplinary Evaluation and Support Examiner Navajo Nation Medical Direction \$9,900 Clinic - A1 - Specific Supplement \$29,013 Medical Direction Services for the Navajo Nation \$249.998 **Andrew Harrell** Venice Ceballos New Mexico Public Safety Department Pueblo of Laguna Fire Protection Program Pacific Institute for Research & Evaluation Professional Services TEMS -Laguna Pueblo Medical Direction -Youth Homelessness/Housing Instability: Continuation \$116,000 Continuation \$80,000 Mixed-Method Needs Assessment \$45,000 **Amy Clithero** National Park Service Ramah Navajo School Board, Inc., dba Pine Grand Canyon Medical Direction -Lakehead University Hill Health Center The Transformative Potential of Socially Continuation 2 \$36,715 Medical Direction for the Ramah Navajo Accountable Education \$8,000 School Board - Continuation \$45,000 National Park Service **Arthur Kaufman** Grand Canyon Medical Direction -Pueblo of Acoma EMS Continuation \$36,355 City of Albuquerque Medical Direction for the Pueblo of Intensive Case Mgt FY21 \$750,000 Acoma \$36,000 The Boeing Company Physician Services \$25,000 HHS Office of the Assistant Secretary Cibola County for Health Medical Directorship - Continuation \$12,000 Bosque School Increasing EITC in New Mexico \$450,000 Medical Director Services \$6.492 National Park Service Presbyterian Healthcare Services Med Dir El Malpais/El Morro -Jonathan Marinaro Presbyterian Healthcare Contract for Continuation \$4,500 Kindred Hospital (Transitional Hospital Services - Continuation - FY21 \$193.055 Corporation of N.M.) Jenna White New Mexico Department of Health Medical Director Services -Sandoval County Continuation \$25,000 New Mexico Immunization Coalition Medical Director Services \$54,000 FY22 \$175,658 Steven McLaughlin The Pueblo of Santo Domingo Real Time Solutions, Inc. Navajo Area Indian Health Service Medical Direction for the Pueblo of Santo GIMC Physician Services \$677,939 \$35,475 COVID-19 Vaccine Call Registration Initiative Domingo Support Services \$162,211 Sandoval County Regional Emergency State of New Mexico EMT Training FY22 N.M. \$139,900 City of Albuquerque Communications Center Medical Director Services \$160.637 Medical Director Services -A. Robb McLean Continuation \$28,368 Fort Defiance Indian Hospital City of Albuquerque Care Coordination \$125,000 Medical Director Services Presbyterian Medical Services \$57,147 Medical Director Services \$23,760 **Aaron Reilly** City of Albuquerque High Altitude Athletics Club Pueblo of Jemez Medical Director Services \$36,007 Medical Directorship \$2,000 FY21 Pueblo of Jemez Medical Jill Klar Direction \$20,000 **Amber Rollstin** First Choice Community Healthcare Professional Services - Continuation \$50,000 Specialty Hospital of Albuquerque Town of Cochiti Lake \$25,000 Physician Services Medical Director Services \$7,500 Sarah Lathrop **Robert Sapien** Family & Community New Mexico Department of Health Office for the Advancement of Telehealth COVID N.M. Emerging Infections Program -Medicine Child Ready Rural Emergency Support of \$835,341 FY22 Melanie Baca \$300,000 Society of Family Planning New Mexico Department of Health Maternal and Child Health Bureau Changemakers in Family Planning \$71,978 N.M. Emerging Infections Program -\$701,780 N.M. EMS for Children Program -Continuation - FY21 **Antoinette Benton** \$130,000 Continuation New Mexico Department of Health New Mexico Department of Health FY22 Transdisciplinary Evaluation and The Mind Research Network FY21 N.M. Emerging Infections Program -Support Clinic \$1,236,782 The Impact of Diffuse Mild Brain Injury on Specific Supplement A2 \$530,011 Clinical Outcomes in Children -New Mexico Department of Health New Mexico Department of Health \$61.601 Continuation Transdisciplinary Evaluation and Support FY21 N.M. Emerging Infections Program Clinic W/ BAA - FY21 -Isaac Tawil COVID - Continuation \$61,906 Continuation \$1,207,770 **DCI Donor Services Melissa Martinez** Medical Director Services \$19.078 Falling Colors Corporation Mora Valley Community Health Services, Inc. FY22 Pre-Administration Screening and **Brandon Warrick** Locum Tenens Services

Resident Review - Continuation \$194,569

N.M. Medical Legal Review, Inc.

New Mexico Medical Legal Review \$3,000

Mora Valley Community Health Services, Inc. Locum Tenens Services \$25,000

Janet Page-Reeves

National Institute on Minority Health and Health Disparities

TERTULIAS: Addressing Social Isolation to Reduce Depression Among Female Mexican Immigrants - Continuation YR3 \$520,027

Patient-Centered Outcomes Research Institute

ACA-ECM-PCORI: Diabetes Cultural
Competence Study - Supplement \$2,373

Nancy Pandhi

Department of Veterans Affairs

Gulf War Code Book, Module Development,

Recruitment \$15,600

Laura Parajon

Association of American Medical Colleges

Nurturing Experiences for Tomorrow's

Community Leaders Award \$10,000

Tassy Parker

University of Colorado Denver
Collaborative Hubs to Reduce the Burden
of Suicide Among AI & AN Youth - FY21 Continuation \$191,192

University of Colorado Health Sciences Center

HEAL Initiative: Social Network Analyses to Reduce American Indian and Alaska Native Opioid Use Disorder and Related Risks for Suicide and Mental Health Disorders \$110,363

University of Colorado Health Sciences Center

Center for American Indian and Alaska Native Health Disparities - FY2 -Continuation \$30.300

Washington State University
Community Organizations for Natives:
COVID-19 Epidemiology, Research, Testing
and Services \$29,755

University of Colorado Denver
NIDDK-Funded Center for American Indian
and Alaska Native Diabetes Translation
Research - FY21 - Continuation \$18,938

International Association for Indigenous Aging

A Collaborative Approach to the Healthy
Brain Initiative's Road Map for Indian
Country: Honoring Sovereignty, Culture,
Diversity and Tradition \$3,000

Jennifer Phillips

New Mexico Cancer Care Alliance
Acupuncture Services FY22 N.M.
CCA \$25,000

David Rakel

Bernalillo County
Physician Services

First Nations Community Hoalthsourse, Inc.

First Nations Community Healthsource, Inc. *Physician Services With Obstetrics* \$36,000

Presbyterian Medical Services

Professional Services-Continuation \$25,000

Robert Rhyne

U.S. Department of State

Adaptive Health Services Training for Rural

Chinese Village Doctors in the Loess Plateau

Gansu Province \$149.827

Valerie Romero-Leggott

Bureau of Health Workforce National HCOP Academies -

Continuation \$663,560

Helene B Silverblatt

Bureau of Health Workforce

Area Health Education Centers Program Continuation \$444,705

Bureau of Health Workforce COVID Area Health Education Centers Program \$95,455

Center for Health Innovation

Contract for Services \$5,000

Andrew Sussman

National Institutes of Health
Women in Survivorship Healthcare:
Implementation of a Nurse Navigation
Model for Medically Underserved Breast and
Gynecologic Cancer Survivors Using Project
ECHO \$197,708

Daniel Waldman

Bureau of Health Workforce Residency Training in Primary Care (PCTE-RTPC) Program - FY22 \$499,579 New Mexico Primary Care Training Consortium N.M. Primary Care Training

Consortium

Laura Wylie

\$254,201

Bureau of Health Workforce
Physician Assistant Training in Primary
Care \$299,997

\$56,048

Internal Medicine

Christos Argyropoulos

Dialysis Clinic, Inc. Kidney: To Take or Not to Take? -

Continuation \$118,414

University Of Pennsylvania
Transformative Research in Diabetic
Nephropathy - Continuation \$12,800

Alkahest Inc.

Alkahest Consulting Agreement \$2,500

Steven Bradfute

Defense Threat Reduction Agency Long Non-Coding RNAs in Venezuelan Equine Encephalitis Virus Infection \$499,350

Albert Einstein College of Medicine
Prometheus: A Platform for Rapid
Development of Immunotherapeutics and
Immunoprophylactics Against Emerging Viral
Threats - Y3 \$316,000

Los Alamos National Laboratory

Immunogenicity of Delayed Antigen Release

Systems - FY22 \$125,000

University of California, Irvine
Defining Molecular Mechanisms of
Combination Adjuvants: A Systems
Immunology Transcriptomics and Imaging
Approach \$72,803



Los Alamos National Laboratory Immunogenicity of Delayed Antigen Release Systems - Non-Specific Supplement \$40,000

University of Utah
COVID-Broad Spectrum Coronavirus
Therapeutics \$22,773

Sandia National Laboratories

Photocatalytic Material Surfaces for SARSCoV-2 Virus Inactivation \$9,999

Kelly Chong

Dialysis Clinic, Inc.

Risk Factors of 30-Day Re-Hospitalization

Among Patient Receiving Inpatient Dialysis:

Towards Inpatient Care Quality

Improvement - Continuation \$219,585

Osman Dokmeci

AstraZeneca Pharmaceuticals, LP
D3253c00001: A Study to Evaluate the
Efficacy and Safety of Benralizumab
Compared to Mepolizumab in the Treatment
of Eosinophilic Granulomatosis in Polyangiitis
in Patient Receiving Standard
of Care Treatment - Y2
\$51,760

Michelle Harkins

Bellerophon Pulse Technologies

COVID19: PULSE-CVD19-001 \$320,000

Cystic Fibrosis Foundation
Cystic Fibrosis Care Center Program Continuation \$89,045

Michelle landiorio

Health Resources and Services
Administration
Comprehensive HIV Early Intervention
Services (Ryan White Part C) FY21-22
\$718.561

Health Resources and Services Administration Ryan White HIV/AIDS Program Part D

Ashish Kataria

Transplant Genomics, Inc.

TRULO Study \$140,800

Denece Kesler

Bureau of Health Workforce

Preventive Medicine Residency Program FY22 \$399,984

Johns Hopkins Bloomberg School of Public Health

Development of a Medical Screening for Former Sandia and LANL Workers -Renewal \$5,000

Olga Kovbasnjuk

University of Maryland, Baltimore County
Pathogenesis of E. coli and Shigella
Infections in Human Enteroid Models Continuation Y5 \$204,139



Baylor College of Medicine

Mediators of Intestinal Barrier Dysfunction in

Inflammatory Bowel Disease - Y2 \$94,688

University of Washington

A Microphysiological System for Kidney

Disease Modeling and Drug Efficacy Testing

- Continuation FY21 \$34.845

TUFTS Medical Center

Effect of Shiga Toxin, OMVs and Innate

Immune Cells on Epithelial Integrity of

Human Colonoids During EHEC Infection
FY22

\$11.041

Tufts Medical Center Effect of Shiga Toxin, OMVs and Innate Immune Cells on Epithelial Integrity of Human Colonoids During EHEC Infection \$10,935

Jenny Mao

\$492.914

Department of Veterans Affairs *IPA - Franco Nitta* \$83,663

Lana Melendres-Groves

Altavant Sciences, Inc.

Clinical Trial Phase 2b: ELEVATE 2
(RVT-1201-2002) \$405,000

Covance, Inc.
Clinical Trial Phase 2: GB002 in
Adult Subjects With PAH
(GB002-2101)

Merck, Sharp & Dohme, Inc.

Clinical Trial Phase 2/3: MK-5475-0070028 \$255,360

\$288,000

Janssen Research & Development, LLC
AC-065B302: Study to Assess the Efficacy
and Safety of Selexipag as an Add-On to
Standard of Care Therapy in Subjects With
Inoperable or Persistent/Recurrent After
Surgical Treatment Chronic Thromboembolic
Pulmonary Hypertension \$71,680

Gregory Mertz

Merck, Sharp & Dohme, Inc.
COVID19: Clinical Trial Phase 2/3:
MK4482-002 \$401,242

Merck, Sharp & Dohme, Inc.
COVID19: Clinical Trial Phase 2/3: MK4482002 - Non-Specific Supplement \$16,796

Nathan Nielsen

Covance, Inc.

Clinical Trial Phase 3: REVIVAL (AP-recAP-AKI-03-01) \$248,402

Tudor Oprea

National Institutes of Health

IDG KMC - Y4 Continuation \$1,037,175

National Institutes of Health
Illuminating the Druggable Genome Data
Coordinating Center - Engagement Plan
With the CFDE \$447,013

East Carolina University Brody School of Medicine Ligand Specificity in Human Glucose Transporters GLUT1-5 and GLUT9 - Y3 \$68,425

National Institutes of Health

IDG KMC - Admin Supplement \$34,327

Kimberly Page

The RAND Corporation
Improving Access and Treatment for CoOccurring Opioid Use Disorders and Mental
Illness Disorders - Y2 \$1,127,404

The RAND Corporation

CLARO - Supplement \$1,074,568

National Institute on Drug Abuse
New Mexico Clinical Trials Node: Clinical
Research and Practice to Address
Substance Use in Diverse, Rural and
Underserved Populations - Y3 \$735,149

Fundação Bahiana de Infectologia Rediscovery Life Sciences AKI LLC University of South Florida Clinical Trial Phase 2: RLS003-CODE \$667,032 Type I Diabetes Trialnet - Y20-21 \$250 02-001 \$106,409 Cedars-Sinai Medical Center National Institute of Diabetes and Digestive **Elaine Thomas** Collaborative Care Teams for Hospitalized and Kidney Diseases Patients With Opioid Use Disorders: Diabetes Prevention Program (DPPOS)-New Mexico Department of Health Translating Evidence Into Practice \$281,037 Phase 3 - FY21-22 \$1 Sexually Transmitted Disease Clinical Services W/ BAA -Prisma Health - Upstate **Melissa Schiff** Continuation Y3 \$40,512 HERO Y6 \$168,091 New Mexico Perinatal Collaborative Mark Unruh N.M. PC-AIM Data Project \$23,813 National Institute on Drug Abuse Santo Domingo Health Center COVID Southwest CTN Supplement\$148,594 Saeed Kamran Shaffi Professional Services Agreement -Novartis Pharmaceuticals Corporation Nephrology Services -National Institute on Drug Abuse Clinical Trial Phase 3: APPLAUSE FY21-22 \$252,300 COVID SW CTN Supplement Y2 \$145,109 \$217,176 (LNP023A2301) Albuquerque Area Indian Health Service **Vernon Pankratz** Manoocher Soleimani Nephrology and Rheumatology IHS Dialysis Clinic, Inc. Harvard Medical School Specialty Services -Professional Services Agreement -Wood Smoke and Chronic Mucous Continuation \$232,339 Biostatistician Services - Continuation Secretion \$90,900 2020-2021 \$52,606 University of Pittsburgh Veterans Affairs Medical Center Technology-Assisted Stepped Collaborative Dialysis Clinic, Inc. IPA - Brooks \$60,148 Care Intervention to Improve Patient-Professional Services Agreement -Centered Outcomes in Hemodialysis Biostatistician Services - Continuation Department of Veterans Affairs Patients - Continuation Y4 \$214.333 2021-2022 \$26,303 IPA - Zahedi - FY22 \$45,459 University of Washington **Gulshan Parasher** Department of Veterans Affairs Treatment Options for Insomnia for AbbVie IPA - Barone - FY22 \$38,431 ESRD - Y3 \$141,824 M20-259 \$1,659,452 **Akshay Sood** Boston University Medical Center **Douglas Perkins** National Institute of General Medical Improving Medical Decision Making for National Institute of Allergy and Infectious Sciences Older Patients With End Stage Renal COVID:Longitudinal SARS-CoV-2 Diseases \$123,457 Disease Defining the Inflammation and Immunity Workplace Surveillance Using Frequent Transcriptome in Severe Malarial Anemia for Point-of-Care Testing in Predominantly University of Washington Immunotherapeutic Discovery-Y4 \$707,737 Minority Rural Essential Workers \$958,041 Randomized ESRD Trial Comparing CBT Alone Versus With Buprenorphine John E. Fogarty International Center for Miners Colfax Medical Center \$116,160 (RECOVER) - FY20-21 Medical Consultation and Care -Advanced Study in the Health Sciences Training and Research on Severe Malarial \$203,023 Continuation University of Pennsylvania Anemia - FY21-22 \$268,184 Computer Assisted Telephone QTC Medical Group Interview \$83.715 Harvard School of Public Health Second Medical Opinion Evaluations -Fogarty Global Health Training Fellowship Non-Specific Supplement \$25,000 Zenith American Solutions, Inc. Program - Continuation 5 Occupational & Environmental Health Miners Colfax Medical Center Services \$25,000 Harvard School of Public Health An Innovative Approach to Increasing Fogarty Global Health Training Fellowship Access to Miners in the Mountain Honeywell Aerospace \$21.517 Program - Y4 \$5,400 West Occupational Health Services \$25,000 **David Schade Nestor Sosa** Lovelace Respiratory Research Institute VisionQuest Biomedical Merck, Sharp & Dohme, Inc. Occupational Health Clinical Services -Thermal Imaging Modality for Detection of COVID19: Clinical Trial Phase 2/3: FY22 \$25,000 Large and Small Fiber Diabetic Peripheral MK4482-001 \$491.436 Neuropathy \$974,268 Lovelace Respiratory Research Institute Joao Teixeira Occupational and Environmental Health George Washington University Gilead Sciences \$25,000 Clinical Services Continuation of Glycemia Reduction Multicenter Study Evaluating the Efficacy Approaches in Diabetes: A Comparative and Safety of Remdesivir in Participants

Hospitalized With COVID-19 and Severe

Kidney Disease

Sentien Biotechnologies Inc.

COVID19: SBI-101-002

Effectiveness Study - Non-Specific

Case Western Reserve University

Epidemiology of Diabetes Intervention and

\$513,907

\$126,549

Supplement

Complications

Molecular Genetics & Microbiology

Kiran Bhaskar

\$607.886

\$256,000

Electro Cellular Health Solutions, LLC Determine Anti-Inflammatory and Trophic Properties of Three Different Pulsed



Electromagnetic Field Stimulation Continuation \$79,463

Electro Cellular Health Solutions, LLC

Determine Anti-Inflammatory and Trophic

Properties of Three Different Pulsed

Electromagnetic Field Stimulation
Continuation \$67,505

Judy Cannon

National Institute of General Medical Sciences

Effect of Vaping on Lung Immunity - AIM
Admin Supplement \$151,500

Bryce Chackerian

Henry M. Jackson Foundation

Epitope-Based Vaccines for Neisseria

Gonorrhoeae - Year 3 \$290,983

Massachusetts General Hospital Innate-Like BCR Activity As a Template for Universal Vaccination Against Influenza Virus - Yr 3 \$70,949

Massachusetts General Hospital
Innate-Like BCR Activity as a Template for
Universal Vaccination Against Influenza Virus
- Amendment 3 \$70.949

Voio Deretic

National Institute of General Medical Sciences

Autophagy, Inflammation and Metabolism in Disease Center - Yr 4 \$2,200,660

National Institute of Allergy and Infectious Diseases

Autophagy Against Tuberculosis and HIV -Continuation \$744,529 National Institutes of Health
Pattern Recognition Receptors and
Autophagy in Mtb Control in AIDS Continuation Year 24 \$483,582

Kathryn Frietze

National Institute of Allergy and Infectious Diseases

Defining Chlamydia Trachomatis Adhesion Factor Epitope-Specific Antibody Responses, Functionality and Roles in Protection Against Urogenital Infection \$42,310

National Institute of Allergy and Infectious Diseases

Defining Chlamydia Trachomatis Adhesion Factor Epitope-Specific Antibody Responses, Functionality and Roles in Protection Against Urogenital Infection - Non-Specific Supplement \$516

Alison Kell

National Institute of Allergy and Infectious Diseases

Mechanisms of Intrinsic Host Responses to Hantavirus Infection - Continuation \$106,320

Mary Ann Osley

National Institute on Aging
Functional Analysis of Cellular Quescence Year 5 \$310,575

Michelle Ozbun

National Cancer Institute

Mechanisms of Infection by Oncogenic

HPVs - Year 5 \$345,867

NTD Labs
Antiviral Properties of CH in HPV- Infected
Cells \$6,000

Xuexian Yang

National Institutes of Health
The Cytokine Signal Suppressor CIS in Giant
Cell Pneumonitis - Continuation \$378,750

Neurology

Corey Ford

Sanofi US Services, Inc. EFC16645 - HERCULES \$776,820

Sanofi US Services, Inc.

EFC16035 - PERSEUS \$765,835

Sanofi US Services, Inc.

EFC16034 GEMINI 2 \$680,987

Novartis Pharmaceuticals Corporation

COMB157G23101 - ARTIOS \$278,174

Novartis Pharmaceuticals Corporation

COMB157G23101 - ARTIOS - Specific

Supplement \$28,733

Novartis

Clinical Trial Phase 3 - Continuation Through May 1, 2025 \$9,765

Clotilde Hainline

Genentech, Inc.

BA39731: An Observational Study of Ocrelizumab-Treated Patients With Multiple Sclerosis to Determine the Incidence and Mortality Rates of Breast Cancer and All Malignancies \$320,666

Omar Hussein

Syneos Health

Alexion: ALXN1210-MG-306 \$309,604

Monika Krzesniak-Swinarska

Muscular Dystrophy Association

UNM MDA and MDA/ALS Care Center 01/01/2021 - 06/30/2021 \$10,000

Muscular Dystrophy Association

UNM MDA and MDA/ALS Care Center- 07/01
- 9/30/20 \$5,000

Muscular Dystrophy Association

UNM MDA and MDA/ALS Care Center
10/01/2020 - 12/31/2020 \$5,000

Surojit Paul

National Institute of Neurological Disorders and Stroke

Role of Brain-Specific Tyrosine Phosphatase STEP in Neuroprotection and Death -Continuation FY21 \$503,383

Ranjana Poddar

National Institute of Neurological Disorders and Stroke

Molecular Basis of Hyperhomocysteinemia-Induced Brain Injury in Ischemic Stroke -Continuation FY22 \$577,986 Stefan Posse

National Institutes of Health

Concurrent High-Speed FMRI and MRSI

(R21) - Continuation FY22 \$149,120

The Mind Research Network

Posse COBRE Pilot Grant FY21 \$49,688

Sarah Pirio Richardson

Emory University

Emory Subaward U54: Continuation

FY21 \$161,273

PPD Investigator Services
AEON Biopharma ABP-19002 \$56,165

PPD Investigator Services
AEON Biopharma ABP-19000 \$42,203

Dystonia Coalition

Dystonia Coalition FY21 - Patient

Enrollment \$7,500

Hae Shin

University of California, San Francisco

BVMC3 Project 2 - SWS \$3,788

Michel Torbey

University of California, San Francisco
Brain Vascular Malformation Consortium:
Predictors of Clinical Course - Continuation
FY21 \$128,775

University of Chicago
Trial Readiness in Cavernous Angiomas
With Symptomatic Hemorrhage Continuation FY21 \$38,000

University of Cincinnati
Sleep for Stroke Management and Recovery
Trial Stroke Trial \$35,500

Eastern New Mexico Medical Center
Neurology Services \$25,000

Eastern New Mexico Medical Center
Neurology Services \$25,000

The Mind Research Network

MRN Administrative Operations Continuation FY21 \$21.6

Continuation FY21 \$21,694
University of Chicago

University of Chicago

Trial Readiness in Cavernous Angiomas

With Symptomatic Hemorrhage - NonSpecific Supplement \$1,650

Neurosciences

Andrea Allan

National Institute of Environmental Health Sciences Prenatal Arsenic Exposure Alters

Prenatal Arsenic Exposure Alters Transcriptional, Post-Transcriptional and Post-Translational - Continuation \$335.025 Jonathan Brigman

National Institute on Alcohol Abuse and Alcoholism

Prenatal Alcohol Exposure and
Corticostriatal Control of Behavioral
Flexibility - Continuation \$335,147

Lee Anna Cunningham

National Institute on Alcohol Abuse and Alcoholism

Network Mechanisms of Impaired Adult Hippocampal Neurogenesis in a Mouse Model of Prenatal Alcohol

Exposure \$340,875

National Institute on Alcohol Abuse and Alcoholism

Connectivity of Adult-Generated Dentate
Granule Cells in a Mouse Model of Prenatal
Alcohol Exposure - Continuation \$45,520

David Linsenbardt

National Institute on Alcohol Abuse and Alcoholism

Repeated Binge Drinking and the Genetic Regulation of Corticostriatal Synchrony -Continuation \$248.579

Samuel McKenzie

National Institute of Mental Health Investigation Into the Synaptic Origins of Hippocampal Replay \$249,000

National Institute of Mental Health Investigation Into the Synaptic Origins of Hippocampal Replay -

Continuation \$247,449

Nikolaos Mellios

National Institute on Alcohol Abuse and Alcoholism

Sex-Dependent Effects of Prenatal Alcohol Exposure on Developmental Programming -Continuation \$334,982

Erin Milligan

National Institute on Alcohol Abuse and Alcoholism

Prenatal Alcohol Exposure Potentiates Pain Via Lifelong Spinal-Immune Changes -Continuation \$287,162

Nora Perrone-Bizzozero

Georgia State University
Mining the Genome-Wide Scan: Genetic
Profiles of Structural Loss in Schizophrenia Continuation \$13,117

Bill Shuttleworth

National Institute of General Medical Sciences UNM-CBRR \$2,183,395 National Institute of Neurological Disorders and Stroke

Spreading Depolarizations and Neuronal Vulnerability - Continuation \$326,384

New Mexico State University
New Mexico IDEeA Networks of Biomedical
Research Excellence Continuation \$172,322

New Mexico State University
New Mexico IDEeA Networks of Biomedical
Research Excellence - Mishra Continuation \$151,500

New Mexico State University
New Mexico IDEeA Networks of Biomedical
Research Excellence - Hines Continuation \$102,263

New Mexico State University
New Mexico IDEeA Networks of Biomedical
Research Excellence - Hines Continuation \$102.263

New Mexico State University
New Mexico IDEeA Networks of Biomedical
Research Excellence - HSC_Bouchonville Continuation \$68,175

Carlos Valenzuela

National Institute on Alcohol Abuse and Alcoholism

Alcohol and Developing Neuronal Circuits (MERIT Award) - Continuation \$378,750

National Institute on Alcohol Abuse and Alcoholism Alcohol Research Training in Neurosciences

- Continuation \$137,890

Jason Weick

National Institutes of Health

Molecular Mechanisms of Excitatory

Postsynaptic Diversity \$378,750

Neurosurgery

James Botros

SetPoint Medical Corporation

RESET-RA \$131,486

Andrew Carlson

NControl Therapeutics, Inc
N.M.2BI \$160,449

Andrew Hollander

Three Crosses Regional Hospital
Telemedicine Services \$25,000

Meic Schmidt

Presbyterian Healthcare Services

Professional Services/
Consultations \$402,000

Lovelace Health System

On-Call Services \$50,000

Obstetrics of	& Gynecol	ogy
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Gillian Burkhardt

Society of Family Planning MEeP \$15,000

Conrad Chao

New Mexico Department of Health

High-Risk Prenatal Care \$82,460

New Mexico Department of Health

High-Risk Prenatal Care \$82,460

Gena Dunivan

Renovia, Inc.

Renovia Clinical Trial \$75,040

Eve Espey

New Mexico Department of Health
DOH Family and STD Disease Services
FY22 \$608,120

Anonymous Non-Profit Foundation
Fellowship in Family Planning \$209,195

Collaborative for Gender & Reproductive Equity

CGRE UNM CAREs Grant \$165,000

Anonymous Non-Profit Foundation
Fellowship in Family Planning \$135,450

First Choice Community Healthcare
Midwifery Services FY22 First Choice\$95,260

New Mexico Department of Health
Certified Nurse Midwife Contractor Project
W/BAA \$78,438

Albuquerque Area Indian Health Service

OB/GYN IHS Specialty Services
Continuation \$72,490

New Mexico Department of Health
Provide Risk-Appropriate Prenatal Medical
Services to Medically Indigent Women in
N.M. FY22 \$54.960

St. Vincent Regional Medical Center

Professional Services-Continuation \$25,000

Planned Parenthood of the Rocky Mountains
OB/GYN Services & Medical
Directorship \$25,000

New Mexico Perinatal Collaborative

Director of Maternal Health Initiatives FY22

N.M. Perinatal \$25,000

St. Vincent Regional Medical Center

Professional Services FY22 \$25,000

New Mexico Department of Health

Certified Nurse Midwife Contractor Project

W/BAA - Specific Supplement \$2,057

Lisa Hofler

New Mexico Department of Health

Tubal Ligation Sterilization \$270,080

New Mexico Department of Health Family Planning & Vasectomy

Society of Family Planning

Dale SFP Research \$15,000

University of California, San Francisco SWS - Continuation \$4,000

University of California, San Francisco SWS - Continuation \$2,000

University of Texas Austin
COVID-19 Texas-Only Study \$1,270

Yuko Komesu

Research Triangle Institute
PFDN Capitation - Continuation \$15,150

Office of the Medical Investigator

Lauren Decker

New Mexico Department of Health
FY21 Mass Fatality Planning \$39,985

New York University Grossman School of Medicine

Understanding the Long-Term Effects of SARS-CoV-2 Infection Through a Correlation of Postmortem Imaging and Histopathologic Findings at Autopsy \$19,011

New Mexico Department of Health FY21 N.M. VDRS

Heather Jarrell

New Mexico Public Safety Department COVID-19 2020 Coronavirus Emergency Supplemental Funding \$100,000

Bureau of Indian Affairs BIA Autopsy Services

New Mexico Department of Health

Non-Pending Toxicology Salary Support
Continuation \$80,000

New Mexico Public Safety Department
2020 Paul Coverdell Formulary \$55,587

Department of Veterans Affairs

VA Autopsy Services 11/7/20 - 11/06/2021 Continuation \$32,092

Lovelace Health System

Autopsy Services FY21 \$25,000

Lori Proe

New Mexico Crime Victims Reparation Commission

FY21 Grief Services \$104,643

Centers for Disease Control and Prevention
OMI UNM SUID SDY Application Continuation \$66,378

Ophthalmology & Visual Sciences

Robert Avery

\$90,444

Eye Associates of New Mexico

Neuro-Ophthalmology Services FY22 Eye

Associates \$196,903

Arup Das

National Eye Institute

Novel Biomarkers & Genetics of Diabetic

Retinopathy - Continuation \$666,571

Genentech, Inc. RHONE GR41987

\$199,773

\$172,500

A. Robb McLean

Eye Associates of New Mexico
Professional Services Continuation

Orthopaedics & Rehabilitation

Michael Decker

Arthrex. Inc.

External Versus Internal Knee Brace \$8,440

Deana Mercer

Skeletal Dynamics

Dual Column \$8,800

Skeletal Dynamics

Wide Versus Narrow \$8,800

Dustin Richter

\$5,275

\$88,725

Aesculap Biologics
A Phase 3 Prospective, Randomized,
Partially Blinded Multi-Center Study
to Measure the Safety and Efficacy
of NOVOCART® 3d, Compared to
Microfracture in the Treatment of Articular
Cartilage Defects - Non-Specific
Supplement \$55,655

Arthrex, Inc.

Arthrex Sports Medicine Fellowship 2020-2021 \$40,000

Smith & Nephew, Inc.

Smith & Nephew Sports Medicine Fellowship 2019-2020 \$8,000

Christina Salas

Con Alma Health Foundation Medical Grade Reusable 3D Printed Masks for N.M.'s Immigrant Communities \$15,000

Robert Schenck

Lovelace UNM Rehabilitation Services

Pain Clinic - Professional Services \$69,000

ExplorAbilities, Inc.

Physical Therapy Services \$50,000

University of Pittsburgh Surgical Timing and Rehabilitation for Multiple Ligament Knee Injuries:
A Multicenter Integrated Clinical Trial Specific Supplement \$5,855

University of Pittsburgh

STaR - Quarterly Redcap Report - 4/1/206/30/20 \$5,825

University of Pittsburgh
Surgical Timing and Rehabilitation for
Multiple Ligament Knee Injuries:
A Multicenter Integrated Clinical Trial Specific Supplement \$2,818

Pathology

Shweta Agarwal

TriCore Reference Laboratories

TO#24_Roche Digital Pathology

Study \$24,100

Cory Broehm

TriCore Reference Laboratories
TO# 19_Roche Navify 2.0 Study \$20,400

Tione Buranda

Revere Pharmaceuticals, Inc.

PSA - Validation of G-trap Assay and

Keterolac Activity in Vitro \$19.362

Devon Chabot-Richards

TriCore Reference Laboratories
TO# 20_Roche Navify 2.0 Study \$20,400

Alexandre Chigaev

Gilead Sciences

Evaluation of Novel Probes
Continuation \$143,474

Gilead Sciences

Evaluation of Novel Probes \$138,107

Hakim Djaballah

University of Connecticut
Molecular Mechanism and Preclinical
Translation of Beta2 Integrin AutoInhibition on Neutrophil Arrest &
Inflammation \$30,300

Nadja Falk

TriCore Reference Laboratories TO#23_Roche Digital Pathology Study

\$24,100

TriCore Reference Laboratories

RSTask Order #6_Ventana_MMR ILR

Study \$13,350

TriCore Reference Laboratories TO13_Ventana MMR CRC ILR Study

TriCore Reference Laboratories

Task Order #11 Ventana Molecular

Systems, Inc. _PDL-1 (SP263) ESCC ILR

Study \$200

Rama Gullapalli

TriCore Reference Laboratories

Task Order #7 _Gullapalli_abbott Alinity

Body Fluid Alpha Study \$2,080

Nancy Joste

TriCore Reference Laboratories

Medical Directorship and Professional

Services - Continuation \$2,243,199

TriCore Reference Laboratories

Medical Directorship/Scientific Director

Services FY22 TriCore \$2,211,496

Southwest Gastroenterology Associates, P.C Professional Services - Southwest Gastroenterology Associates, P.C. \$150,000

TriCore Reference Laboratories

Task Order #17-Tricore Repository \$82,500

Southwest Gastroenterology Associates, P.C Medical Director and Physician Services \$25,000

TriCore Reference Laboratories

Task Order #18 Estrogen Receptor

WILEY \$13,756

Diane Lidke

National Institute of General Medical Sciences Imaging the Early Events in Membrane

Imaging the Early Events in Membrane
Receptor Signaling - Continuation \$420,193

Yale University

Understanding How Receptor Tyrosine
Kinase Activation Dynamics Specify
Proliferative Cellular Responses Continuation \$199.279

Yale University

Understanding How Receptor Tyrosine
Kinase Activation Dynamics Specify
Proliferative Cellular Responses \$190,613

Genmab

\$13,350

Dissecting the Mechanisms of Action for Hexabody-Driven DR5-Induced Cell Death -Continuation \$149,157

Genmab

Dissecting the Mechanisms of Action for Hexabody-Driven DR5-Induced Cell Death -Specific Supplement \$23,192

Dennis McCance

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

Aaron Neumann

University of Colorado

Acoustofluidic Pipette for Rapid

Serodiagnosis of Candida Infection \$22,725

Kurt Nolte

Astho

Development of a TeleECHO \$32,000

Jay Raval

Rutgers, The State University of New Jersey

Myocardial Ischemia and Transfusion
CCC - Continuation Y4 \$42,000

CTI Clinical Trial Services Inc

Effects of Plasma Exchange \$25,600

Samuel Reynolds

TriCore Reference Laboratories

Task Order # 12_ventana PD-L1 (SP263)

ESCC ILR \$10,400

TriCore Reference Laboratories

Task Order #8_ventana Goldfish ILR

Study \$4,800

TriCore Reference Laboratories

Task Order # 9 Ovary Repository High Grade

QC Review - Continuation \$600

TriCore Reference Laboratories

Task Order # 9 Ovary Repository High Grade

QC Review \$400



Marian Rollins-Raval

University of Rochester
Cost-Effective Analysis of Kcentra in
Management of Gastrointestinal Bleeding in
Coumadin-Treated Patients \$24,700

Larry Sklar

University of Miami
Illuminating the Druggable Genome
Resource Dissemination and Outreach
Center - Continuation \$372,727

Boston Children's Hospital

Compounds That Block a Novel Candida

Albicans Target \$31,223

Mohammad Vasef

TriCore Reference Laboratories

Task Order # 14 - Ventana KLEAR

Study \$4,800

Angela Wandinger-Ness

National Institute of General Medical Sciences

Academic Science Education and Research
Training - Continuation \$1,047,562

National Center for Advancing Translational Sciences

Illuminating the Functions and Translational Potential of CDC42BP/MRCK Kinases in Ovarian Cancer \$151,500

National Cancer Institute
The Role of Rac1 in Ovarian Cancer
Metastasis and Niche Interaction - Specific
Supplement \$7,509

Tufts University

UNM-Tufts IRACDA Alliance Project \$4,320

Pediatrics

Shirley Abraham

Oregon Health & Science University
Regional Hemophilia Network-Mountain
States - Specific Supplement \$353,921

Oregon Health & Science University
Regional Hemophilia Network-Mountain
States - Continuation \$38,250

Oregon Health & Science University

ATHN - CDC - Public Health Surveillance for the Prevention of Complications of Bleeding Disorders \$25,046

American Thrombosis and Hemostasis Network

ATHN Data Quality Counts \$9,500
Oregon Health & Science University
Community Counts - Continuation \$4,409

Sanjiv Amin

National Institutes of Health Improving Brain Myelination With Iron Supplementation in Term Infants \$639,701



\$200,000

Tanya Baker-McCue

New Mexico Department of Health

Mi Via Waiver Provider Program \$1,495,465

New Mexico Division of Vocational Rehabilitation

DVR Partners for Employment \$410,000

New Mexico Division of Vocational Rehabilitation School-to-Work Project - Specific

Supplement

New Mexico Developmental Disabilities Planning Council

DDPC Information Network \$160,000

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

Sophie Bertrand

Care Department

Home Visiting Training
Continuation \$1,169,129

New Mexico Early Childhood Education and

Glenda Canaca

National Center for Chronic Disease

Prevention and Health Promotion

Connecting Behavioral Science to COVID-19

Vaccine Demand \$500,000

New Mexico Human Services Department
Social Marketing - Continuation \$499,831

Loretta Cordova de Ortega

County of Bernalillo

Professional Service Agreement
Continuation \$200,000

Presbyterian Healthcare Services

Pediatric Nephrology Medical Director

Services \$32,928

Presbyterian Healthcare Services

*Pediatric Nephrology Services \$25,000

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

Theresa Cruz

New Mexico Human Services Department SNAP-Ed Evaluation - Continuation \$284,276

Falling Colors Corporation

N.M. CADV Needs Assessment \$

N.M. CADV Needs Assessment \$155,000

New Mexico Department of Health *Youth Risk and Resiliency Survey* \$80,852

Presbyterian Healthcare Services

*REACH - Continuation \$72,000

Albuquerque Public Schools

APS 1807 - Continuation \$59,971

\$50,000

Thornburg Foundation
Sustaining Home Visiting Referrals Continuation

New Mexico Department of Health
Safe Sleep - Continuation \$39,000

State of New Mexico
Faster Strategic Plan Project \$19,000

Sally Davis

Centers for Disease Control and Prevention PRC Research - Continuation \$412,080

Centers for Disease Control and Prevention

Healthy Places – Healthy People
Continuation \$337,648

New Mexico Department of Health

Teen Outreach Program \$100,300

New Mexico Department of Health Implementing Evidence-Based Recommendations in Community

Projects \$40,000

Walter Dehority

PPD Investigator Services

Moderna Pediatric COVID Vaccine

Trial \$897.550

Children's Hospital of Philadelphia Medpace Inc New Mexico Public Education Department MDA 2013-0039: A Phase 3, Multi-Center NIH NCTN Match, Autopsy, Relapse Improving Health and Academic Success Study to Evaluate the Efficacy and Safety \$5,000 Grant - Continuation \$25,300 of Mino-lok Therapy in Combination With Holy Cross of Taos Children's Hospital of Philadelphia Systemic Antibiotics in the Treatment of AALL1131 Supplemental PCR \$5,000 ROAMS in Northeastern N.M. -Catheter-Related or Central Line-Associated Continuation \$20,000 Bloodstream Infection - Specific Children's Hospital of Philadelphia Supplement \$280.650 Rebecca Kilburn COG ACNS1831 \$3,750 New Mexico Department of Health **Darrell Dinwiddie** Jean Lowe Youth Risk and Resiliency Survey - Specific National Institutes of Health University of Utah Supplement \$130,000 The Effect of 17g21 Locus SNPs on DARBE - Continuation \$179,529 Targeted Host Immune Responses **RAND** Corporation University of California, San Francisco in Children With Rhinovirus-Induced Taking Violence Prevention to Scale \$95,934 High-Dose Erythropoietin for Asphyxia and Exacerbations of Enciphalopathy CCC Project -Asthma - Continuation \$190.044 New Mexico Department of Health Continuation \$21.760 Youth Risk and Resiliency Survey -Arkansas Children's Hospital Continuation \$82,817 University of Cincinnati ORMDL3-Induced ICAM1 and RVA-Induced Medication Treatment for Opioid Use Childhood Asthma Exacerbations \$45,450 Santa Fe Community College Disorder \$18,118 COVID-19 Virtual Home Visiting \$40,500 **Timothy Dionne Peggy MacLean** Bureau of Health Professions New Mexico Public Education Department Erikson Institute HRSA Scholarship for Disadvantaged PED Evaluation - Continuation \$36,500 Erikson FAN Training \$23,400 Students - Continuation \$629,941 New Mexico Public Education Department Ksenia Matlawska-Wasowska COVID-19 PED Evaluation -Jacqueline Fridge National Institutes of Health Celgene Corporation Continuation \$33,335 The Roles of SOCS5 in T-ALL Migration and Celgene Crohn's RPC01-3203 Albuquerque Public Schools Tissue Infiltration - Continuation \$343,258 Maintanence \$218.704 APS 1807 - Specific Supplement \$18,000 Marcia Moriarta Celgene Corporation Alberta Kong Celgene Crohn's RPC01-3204 \$212.774 New Mexico Department of Health New Mexico Department of Health DOH Autism Programs \$3,431,040 Long-Acting Reversible Contraception Celgene Corporation New Mexico Department of Health RPC1063: Induction Study #1 - a Phase Training and Stocking Project -Early Childhood Evaluation Program SGF, 3, Multicenter, Randomized, Double-Blind, Continuation \$750,000 Part B & Part C \$1,215,600 Placebo-Controlled Study of Oral Ozanimod Janssen Research & Development, LLC As Induction Therapy for Moderately to Administration for Community Living 28431754DIA3018: A Randomized. Severely Active Crohn's Disease \$208,001 University Center for Excellence in Multicenter, Double-Blind, Parallel-Group, Developmental Disabilities - Specific Allergan, Inc. Placebo-Controlled Study to Investigate Supplement \$571,732 LIN-MD-64 \$64,494 the Efficacy and Safety of Canagliflozin in Children and Adolescents (≥10 to <18 Years) New Mexico Children, Youth & Families Senan Hadid With Type 2 Diabetes Mellitus - Specific University of Michigan Department Supplement \$133,458 ACA-CYFD Nurse Family Partnership PAT -ASCEND \$10.800 Klein Buendel Continuation \$570,000 Sandra Heimerl Web App Technology for Boys and Maternal and Child Health Bureau New Mexico Department of Health Parents: Improving HPV Vaccine Uptake -DDSD Partners for Employment \$562,800 N.M. LEND Program \$623,558 Continuation \$26,941 New Mexico Department of Health New Mexico Developmental Disabilities Brindle Foundation New Mexico Waiver Training Hub \$253,764 Planning Council UNM Envision/ Optimizing Care for N.M. LEND Interdisciplinary Advocacy Neonatal Opioid Withdrawal Syndrome in New Mexico Children, Youth & Families Workshop \$2,500 Rural N.M. \$25,000 Department ACA-CYFD Nurse Family Partnership PAT -Elizabeth Yakes Jimenez John Kuttesch \$180,000 New Mexico Children, Youth & Families Continuation Children's Oncology Group Department A Collaboration Between Pfizer Inc. and New Mexico Department of Health Telehealth Support for CARA Erasmus - AAML1921 \$260,000 Early Childhood Network - Specific Training \$29,930 \$153.484 Supplement St. Baldrick's Foundation Holy Cross of Taos

Improving Access to Clinical Research

\$50,000

ROAMS in Northeastern N.M.

\$28,000

Trials

\$100,000

Department

Program

Early Childhood Education and Care

DDSD Fit Focus Early Intervention



New Mexico Department of Health

DDSD Community Inclusion (Formerly
Informed Choice) \$100,000

New Mexico Department of Health MFP Contract \$86,000

New Mexico Department of Health

New Mexico SAFE Program \$83,437

Administration for Community Living
COVID Vaccine Resistance \$59,701

New Mexico Department of Health

DDSD PFE Transition Project \$50,000

Early Childhood Education and Care
Department

DDSD FIT FOCUS Early Intervention

Program - Specific Supplement \$25,471

Martha Muller

Cystic Fibrosis Foundation
Cystic Fibrosis Center of New Mexico CF Registry - Continuation \$85,495

Cystic Fibrosis Foundation
Cystic Fibrosis Center of New Mexico CF Registry \$66,860

Dawn Novak

New Mexico Department of Health
Developmental Care Continuity Program Fee for Service - Specific
Supplement \$70,319

Patricia Osbourn

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

Region IX Education Cooperative Region IX Education Cooperative \$418,990

U.S. Department of Education

Project for N.M. Children Who Are

Deaf-Blind \$107,912

New Mexico Public Education Department
PED Contract SET & DB Continuation \$60,000

New Mexico Developmental Disabilities
Planning Council
Partners in Policymaking \$52,000

Rio Rancho Public Schools

Rio Rancho Consultations \$30,000

Belen Consolidated Schools

Belen Consultations \$24,420

Silver Consolidated Schools

RBT Supervision \$15,180

Albuquerque Public Schools
Scope for Student - Albuquerque Public
Schools \$3,300

Hengameh Raissy

Vertex Pharmaceuticals Incorporated 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 - Supplement \$115,476

Duke University
POPS II \$55,216

Mary Ramos

HBSA

N.M. School-Based Health Center Evaluation - Continuation \$25,220

Leslie Strickler

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

New Mexico Crime Victims Reparation Commission

\$72,064

ACCESS-VOCA Federal Grant

U.S. Department of Justice

Expert Witness Contract- Joshua D \$4,060

Jennifer Vickers

New Mexico Department of Health

CORE \$1,484,100

New Mexico Department of Health

Continuum of Care Main \$878,800

New Mexico Department of Health

Mortality Review \$164,800

New Mexico Department of Health Mortality Review Project

Supplement \$50,000

Pankaj Vohra

Allergan, Inc.

LIN 66 \$181,000

Kristi Watterberg

Eunice Kennedy Shriver National Institute of Child Health and Human Development Cooperative Multicenter Neonatal Network -Continuation \$269,762

Carla Sue Wilhite

New Mexico State University
New Mexico Agrability - Assistive
Technology Program for Farmers With
Disabilities - Continuation \$36,980

Craig Wong

The Children's Mercy Hospital

CKID IV - Continuation \$16.911

Nationwide Children's Hospital

CureGN II \$15,500

\$600

The Children's Mercy Hospital CKID REACH

Nan Zeng

New Mexico Human Services Department

CHILE Plus - Continuation \$411,446

Psychiatry & Behavioral Sciences

Christopher Abbott

National Institutes of Health
Electroconvulsive Therapy Amplitude
Titration for Improved Clinical
Outcomes \$756,111

Georgia State University

Data-Driven Approaches to Identify

Biomarkers From Multimodal Imaging Big

Data - Continuation YR2 \$21.807

Deborah Altschul

New Mexico Behavioral Health Collaborative FEMA Crisis Counseling Regular Services Program \$98,582 New Mexico Children, Youth & Families
Department
Multi-Systemic Therapy Data Reporting

Multi-Systemic Therapy Data Reporting
Initiative - FY21 \$31,400

Falling Colors Corporation FEMA Immediate Services Crisis Counseling Program 2021 (FY21 Continuation)

\$16,011

Falling Colors Corporation
FEMA Immediate Services Crisis
Counseling Program 2020

\$15,285

David Arciniegas

University of Colorado
University of Colorado MIBH Consulting
for Research - Arciniegas \$120,000

Caroline Bonham

New Mexico Human Services Department
HSD Behavioral Health Consultant, CBHTR,
EARLY Clinic, Honoring Native Life
Medicaid \$2,696,853

Falling Colors Corporation
Substance Use Disorder Prevention that
Promotes Opioid Recovery and Treatment
for Patients and Communities Act
(N.M. SURT) - FY21 Continuation) \$632,081

Falling Colors Corporation
Substance Use Disorder Prevention that
Promotes Opioid Recovery and Treatment
for Patients and Communities Act \$326,108

Indian Health Service
IHS Tele-Behavioral Health, Training &
Consultation - Continuation \$300,000

Indian Health Service
IHS Tele-Behavioral Health, Training &
Consultation - Non-Specific
Supplement \$248,959

Albuquerque Area Indian Health Service IHS-AAO Substance Abuse & Mental Health Clinical and Community Education Training and Outreach Services -

Continuation \$99,000

New Mexico Indian Affairs Department
Suicide Prevention Support for the N.M.
Indian Affairs Department \$75,000

Falling Colors Corporation

Lifeline 988 \$72,320

New Mexico Children, Youth & Families Department

Indigenous Youth Wellness Summit 2021 \$15.000

Indian Health Service

IHS Tele-behavioral Health, Training &

Consultation - Supplement \$9,052

Juan Bustillo

The Mind Research Network

COBRE III - Continuation YR3 (5/01/20204/30/2021) \$81,343

The Mind Research Network

COBRE III - Specific Supplement

YR3 \$26,301

Jose Canaca

New Mexico Behavioral Health Collaborative Rural Public Psychiatry Program \$450,000

Jennifer Crawford

Falling Colors Corporation

Adolescent Substance Use Reduction Effort

- Treatment Implementation (CYFD FY21) Continuation \$135,000

Association of Psychology Postdoctoral and Internship Centers

Call to Action on Equity, Inclusion, Diversity, Justice and Social Responsivity

Project \$5,000

Annette Crisanti

National Institute of Mental Health
Feasibility of an Early Detection Program
for Early Psychosis on a College Campus
(Reducing DUP) \$225,257

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

Falling Colors Corporation
Opening Doors for Homeless FY22

Albuquerque Police Department

APD Wellness Initiative \$74,500

Bernalillo County

CONNECT FY21 Supplement \$20,000

Jaymes Fairfax-Columbo

New Mexico Human Services Department Comprehensive Opioid, Stimulant, and Substance Abuse Site-Based Program \$83,250

New Mexico Behavioral Health Collaborative Transformation Transfer Initiative \$64,448

Martha Faulkner

Falling Colors Corporation

Bridges to Wellness Evaluation (B2W

Evaluation, PIPBHC) - SFY21 \$179,592

Brian Isakson

Substance Abuse and Mental Health Services Administration Addressing Childhood Trauma Through Intervention, Outreach, and Networking -FY21 \$399,519 New Mexico Children, Youth & Families Department

CYFD Behavioral Health Services Data Project \$131,100

Avron Kriechman

New Mexico Department of Health
Alliance Building for Suicide Prevention &
Youth Resilience - Amendment 1 \$160,000

New Mexico Department of Health

Mescalero Suicide Prevention
Continuation \$55,000

Christopher Morris

Falling Colors Corporation

Systems of Care III - CYFD - UNMMG
Continuation \$499,757

Davin Quinn

Army Medical Research Acquisition Activity
Control Network Neuromodulation to
Enhance Cognitive Training in Complex
Traumatic Brain Injury \$3,806,168

New Mexico Governor's Commission on Disability

Governor's Commission on Disability, Brain Injury Advisory Council \$30,386

The Mind Research Network

COBRE Pilot - MRN \$18,327

Arca Foundation

Medical Director Services \$12,000

New York University

Post-Acute Sequelae of SARS-COV-2

Infection Initiative \$7.514

Julie Salvador

\$94,720

New Mexico Behavioral Health Collaborative N.M. State Opioid Response-2020 \$741,750

Agency for Healthcare Research and Quality Innovative Model for Increasing MAT Access (AHRQ MAT) - Year 4 \$383,316

Falling Colors Corporation

N.M. State Opioid Response
SFY21 \$330,670

New Mexico Behavioral Health Collaborative N.M. State Opioid Response - 2020 - Amendment 1 \$13,292

Mauricio Tohen

UNM Hospital

Support ACT Agreement \$120,598
County of Bernalillo

Psychiatric Services - Continuation \$100,375

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

Paradigm-Catastrophic Care Management
Medical Director Services \$25,000

Universidad Central del Caribe School of Medicine First Episode Psychosis in Hispanic and Latino Populations \$4,000 Universidad Central del Caribe School of Medicine First Episode Psychosis in Hispanic and Latino Populations - Specific Supplement \$500

Ann Waldorf

Falling Colors Corporation Assertive Community Treatment -\$136,132 SFY21

Douglas Ziedonis

National Cancer Institute University of Pennsylvania Testing an Organizational Change Model to Address Smoking in Mental Healthcare (ATTOC)

Radiology

Gary Mlady

Department of Veterans Affairs Provide Radiological and Nuclear Medicine Diagnostics and Therapy Services for N.M. VAHSC FY21 - Continuation \$3,259,177

New Mexico Department of Health BCC Early Detection Program \$126,941

New Mexico Department of Health DOH:BCC Early Detection Program \$73,850

New Mexico Department of Health BCC Early Detection Program - Specific \$63,300 Supplement

X-Ray Associates of New Mexico Medical Physicist Services -Continuation \$25,000

Foot and Ankle Specialists of New Mexico Physicist Services \$25,000

Pima Medical Institute

Medical Physicist Services \$25,000

Jacob Ormsby

Polyganics Polyganics PSA \$74,040

Surgery

William J. Gurule

UNM Sandoval Regional Medical Center \$25,000 Trauma Services

John Marek

Specialty Hospital of Albuquerque Physician Services \$25,000

Presbyterian Medical Services On-Call Surgical Services FY22 PHS\$25,000

Jason McKee

Lovelace Health System Physician and Medical Director Services

Richard Miskimins

New Mexico Department of Health Firearm Surveillance Through Emergency Rooms \$23,100

\$25,000

Ming Wang

Parexel International ACTIV-IV COVID-19 \$104,738

UNM HOSPITAL

A. Robb McLean

City of Albuquerque Scope of Services/Gang Prevention \$264,910 City of Albuquerque Early Intervention for Children Services -Continuation \$215.632

New Mexico Department of Health DOH BCC Early Detection Program/ Screening Service Case Manager FY22 \$85,000

Rodney McNease

UNM Hospital

Behavioral Health Services \$1,503,757

City of Albuquerque

Assertive Community Treatment Program -Continuation \$643,300

UNM MEDICAL GROUP, INC.

A. Robb McLean

City of Albuquerque COVID-Related Social Services \$40,000

New Mexico Cancer Care Alliance Professional Services \$25,000

Presbyterian Medical Services

\$25,000 Locum Tenens Services

Miners Colfax Medical Center Telemedicine Services for Colfax Medical

\$25,000

Loretta Cordova de Ortega

County of Bernalillo School-Based Health Services \$136,919





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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.

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UNM HEALTH SCIENCES

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Research Annual Report 2021

