



UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER

Discovery

Research Annual
Report 2017

Finding the Right Mix

A dozen years of continuous
growth in research funding

TURNING RESEARCH INTO CURES

UNM Health Sciences Center Research Annual Report 2017

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UNM Health Sciences Center *Vision, Mission and Core Values*

VISION

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

MISSION

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

CORE VALUES

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



UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER

Research Annual Report 2017

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PAUL B. ROTH, MD, MS

Chancellor for Health Sciences

Each year, as we take stock of our institution's research accomplishments, I find myself marveling at the depth and scope of our scientific enterprise. I am continually impressed by the ingenuity and creativity of our faculty, as well as the extraordinary growth in extramural funding to support their work.

Few academic health centers of our size are fortunate enough to have both a Clinical and Translational Science Award and a cancer center with comprehensive designation from the National Cancer Institute. These serve as the foundation of our ability to conduct cutting-edge research with an eye toward meeting the specific needs of our communities.

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

One example is our multifaceted effort to alleviate the scourge of opioid abuse in our communities through research, education and engagement with multiple stakeholders. Although we have much work to do, I'm proud of our contribution to

addressing one of our most pressing societal challenges.

Another of our strengths as an academic health center is our longstanding devotion to interdisciplinary research. Bringing together scholars with diverse backgrounds and areas of expertise creates unexpected opportunities to rethink how we identify and address critical research subjects.

The UNM Health Sciences Center has always done this especially well. Research initiatives such as the Brain & Behavioral Health Institute, the Center for Memory & Aging, the TREE Center and many others will

Bringing together scholars with diverse backgrounds and areas of expertise creates unexpected opportunities.

lead the way in finding solutions for many critical health care problems.

As we go forward, I fully expect that our research faculty and staff will gain increasing recognition for their achievements. We can all take pride in their accomplishments. ■





RICHARD S. LARSON, MD, PhD

Executive Vice Chancellor for Health Sciences

I'm proud to report that the UNM Health Sciences Center research enterprise has a great deal to celebrate this year.

As you'll read in these pages, our researchers have made fresh discoveries aimed at alleviating suffering and curing disease. Meanwhile, we are making real progress in building healthy communities by promoting sustainable economic growth.

Our lead story focuses on our amazing record of success in receiving extramural funding—\$203 million last year, and \$1.5 billion over the past decade—to support our research enterprise. This pattern of year-over-year growth rests on a focused set of strategies we have developed over time to entice more of our current faculty into research and to provide a set of internal structures to maximize their likelihood of success.

I might add that our record of success sets us apart. Nationally, many universities find themselves in the uncomfortable position of “rightsizing” their operations due to flat or even declining funding. Not many can claim to be attracting more funding.

You'll also learn about our innovative research and interventions

in Native American communities, community-based oncology studies, new MRI technology to support neuroscience studies and our expanded substance abuse treatment capabilities, courtesy of Project ECHO.

The HSC's bench-to-bedside-to-community research has tremendous potential to stimulate the growth of a thriving bioscience industry in New Mexico that will help support new jobs. In fact, three to five new businesses are spun off each year from discoveries and inventions by our researchers. (Our state took a big step forward this year by creating a new Bioscience Authority to pro-

Three to five new businesses are spun off each year from discoveries and inventions by our researchers.

mote further development of this new industry.)

As always, credit for these achievements must go to our dedicated faculty, staff and students for their commitment, creativity and hard work. It is my great privilege to work with and support such a talented group of people. ■





CAROLYN MONTOYA, PHD, CPNP

Interim Dean College of Nursing

College of Nursing faculty are actively engaged in research and scholarship throughout the Health Sciences Center. Over the past year, faculty on the research team published approximately 50 peer-reviewed articles, including reports of original research, integrative or systematic reviews, clinical articles and expert commentary.

Funded research focused on cancer, palliative care and health services in American Indian communities, perinatal distress and depression, use of technology for aging in place, mental health, stress and resilience in military nursing personnel, screening for domestic abuse or sexual exploitation and symptoms of patients receiving hemodialysis.

Several of our faculty have been closely involved with the UNM Clinical & Translational Science Center, and several others have received CTSC pilot awards.

Faculty from the Education and Practice teams have funded grants related to the research and scholarship of teaching, learning, clinical care and health care workforce. They have been assessing the effectiveness of the New Mexico Nursing Education Consortium curriculum and examining

strategies to improve recruitment and retention of nurse practitioners and nurse midwives in rural communities.

Clinical projects include examining perinatal and infant dental health in New Mexico and increasing the adoption and practice of the Screening, Brief Intervention, Referral to Treatment tool throughout the health care delivery system to screen for and provide early intervention for substance use disorders.

The College's research strategic plan emphasizes health policy and public health, women's and children's health, symptom science and self-management and rural health and health equity. These align well with priorities articulated by the National Institute of Nursing Research, as well as the Health Sciences Center.

We have also been strengthening collaboration with nursing research efforts at UNM Hospital. Together with the redesign of our website, these areas of emphasis will more effectively tell the story of the strength and diversity of the research and scholarship programs at the College of Nursing. ■





DONALD GODWIN, PhD

Interim Dean College of Pharmacy

The College of Pharmacy's research enterprise has achieved—and sustained—impressive growth over the past five years.

Extramural research funding at the College exceeded \$9.5 million in FY 2017, representing an increase of nearly 180 percent over the College's research funding just five years ago. During this time, the College has dramatically ascended in national research rankings.

The College ranks 15th in the nation among 133 colleges of pharmacy in National Institutes of Health research funding in the American Association of Colleges of Pharmacy's (AACP) most recent research rankings. Additionally, UNM ranks 17th in total extramural funding and 10th for other federal funding on the AACP list.

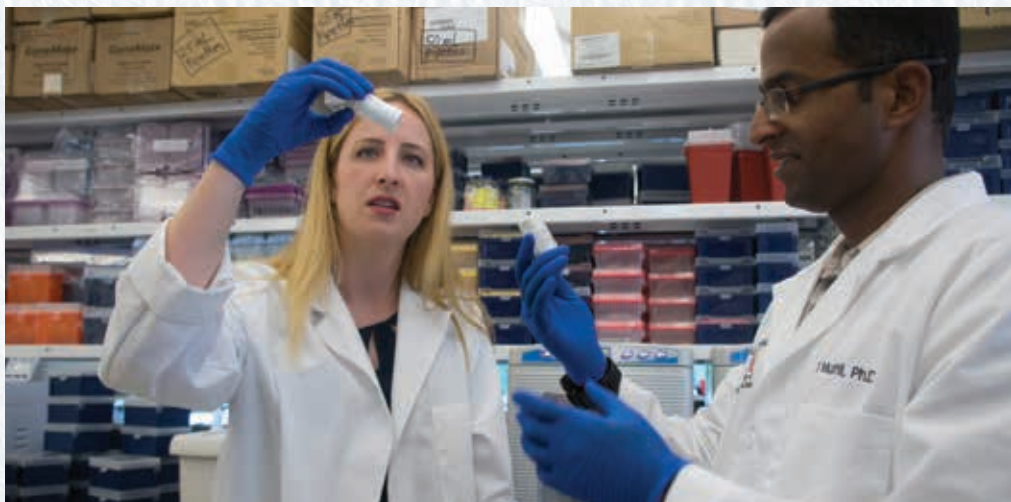
These outstanding results further cement the College's distinction as one of the country's top-tier pharmacy schools.

Researchers at the College continue to pursue and obtain collaborative research awards. This year, a team of environmental health researchers received \$4.4 million in phase 1 NIH funding to initiate the first large-scale

assessment of environmental exposures and children's health in a tribal population.

Additionally, NIH awarded the College a P42 Superfund Center grant to study adverse health effects of environmental metal exposure on the Navajo Nation and Laguna Pueblo, and to develop and implement a community-based participatory research plan. These awards bring the College's total of federally funded and nationally recognized programmatic center grants to four.

College faculty strive to put their research results into practice to benefit public health. Our researchers hold 33 active U.S. patents and dozens of pending patent applications. Further, a number of College researchers received innovation awards this year in recognition of their inventions to better diagnose and treat cancer patients, stroke sufferers and infectious disease patients. ■





KAREN ARMITAGE, MD

Interim Dean College of Population Health

As the College of Population Health enters its second full year of operation, we are pleased to report two new grant awards.

The Transdisciplinary Research, Equity and Engagement Center for Advancing Behavioral Health (TREE Center) will conduct community-based transdisciplinary team research to study the social determinants of behavioral health, including historical trauma, adverse childhood experiences and the effects of poverty and discrimination, with the aim of improving outcomes in youth suicide, alcohol and drug misuse, depression and access to behavioral health services.

And the Maternal Ethylenethiourea Levels, Newborn Thyroid Function and Infant Development grant will study how hazardous work conditions and environmental toxins affect reproductive health and child development in Ecuadorian mothers and their children.

Our ongoing research agenda ranges from community-based participatory research to joint research with UNM Hospital, the Clinical & Translational Science Center, the Cancer Research & Treatment Center and

the Brain & Behavioral Health Institute.

We also engage in research partnerships with external entities, such as the New Mexico Department of Health, the U.S. Indian Health Service and the Department of Veterans Affairs. Our research ranges from health promotion all the way through primary, secondary and tertiary prevention.

We are happy to report several additional accomplishments. Undergraduate College enrollment has grown by 300 percent (from 88 students in Fall 2016 to 293 students in Fall 2017). We also completed re-accreditation of our master of public health program, and we increased our total grant and contract dollars by more than \$3.6 million in FY 2017–2018.

We look forward to the 2018 launch of *Public Health*, our open access academic journal, welcoming our first PhD candidate and beginning a national search for a new dean.

As always, we must ask and answer the right questions through scholarly research while addressing the greatest need by first focusing on the most vulnerable populations. ■





MARTHA COLE MCGREW, MD

Executive Vice Dean, School of Medicine

The discovery, application, integration and dissemination of new knowledge is a core mission and activity of Health Sciences Center faculty and learners.

This new knowledge leads to a deeper understanding of the mechanisms of disease, normal function of the human body, new diagnostics and treatment for disease, better ways to prevent disease and maintain health, higher-quality care and more effective and lower cost of care.

Research improves the lives of our patients and our communities. For example, we are learning more about addictions at the cellular level, and we are learning to better address social determinants of substance use through research by Dan Savage, PhD, and his team in the Department of Neurosciences and the Brain & Behavioral Health Institute led by William Shuttleworth, PhD.

Despite many threats to funding of important research in medical science, the Health Sciences Center reached a new high in funding of more than \$200 million this year. This is largely due to groundbreaking work done in our centers and departments, and by individuals and teams.

Research in the HSC and School of Medicine addresses many of the leading causes of morbidity and mortality in New Mexico, including cancer, respiratory diseases, cardiovascular diseases, neurological disorders and mental illness. Additionally, our research is addressing disease prevention and wellness, the reduction of health care inequities and improved health care service delivery.

I am delighted to see the joy of a newly funded researcher or the excitement of a learner being listed as an author on a published paper for the first time. It creates a sense of personal and professional fulfillment, but more importantly a sense of accomplishment for improving the lives of others through their work.

I extend my deep gratitude and appreciation for all of our researchers and their quest for new knowledge that improves the health of those we serve. ■





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Recipe for Success

Combining Ingredients for a Winning Research Strategy

by Michael Haederle

When you think about it, creating a flourishing academic research enterprise is a little like baking a light and fluffy soufflé. Both depend on the expertise of someone who knows how to blend fresh ingredients in exactly the right proportions.

That *souçon* of culinary wisdom pertains at the University of New Mexico Health Sciences Center, which on Dr. Richard S. Larson's watch has seen stellar growth in extramural research funding. Last year, grant awards topped out at a record \$203 million—capping a 10-year run in which HSC extramural research funding totaled more than \$1.5 billion.

Over the same period, UNM's investment in key strategic centers also paid off, with successive five-year Clinical and Translational Science Awards from the National Institutes of Health, and a coveted comprehensive designation from the National Cancer Institute for its cancer center.

Larson, MD, PhD, the HSC's executive vice chancellor and vice chancellor for research, has overseen a dramatic revamping of the institution's bioscience capabilities since 2004, when he was named senior associate dean for research in the School of Medicine.

Back then, he says, “we did not have a robust set of core facilities to support our researchers.” There was also little in the way of faculty and staff training to improve their research capabilities, and there were few mechanisms to facilitate team science or collaboration.



Larson and his team set about assembling the pieces needed to execute an effective strategic plan for research—a process that has paid off handsomely. “We were considerably smaller than Main Campus as a research effort, as measured by extramural grants,” he observes. “Now we’re close to 50 percent larger.”

Grant funding is the lifeblood of biomedical research, but Larson knew that a midsize academic health center like UNM could never compete to attract the vast sums in grant funding that large research institutions regularly receive. “The model to support it had to be one that did not rely on much funding,” he says. “So we built it in that manner.”

At first, the focus was on bolstering faculty research capability, achieving growth without a proportional increase in faculty numbers. The idea was to entice existing faculty members to launch research, while helping those already conducting research to become more successful.

A milestone came in 2010 with UNM's first Clinical and Translational Science Award (which funded creation of the UNM Clinical & Translational Science Center), Larson says. “The CTSA has played a critical function in our ability to continue to grow and to grow our support structure,” he says. “Without it, we would not have been able to obtain many of the extramural grants that we have, and much of the support structure that currently exists would not exist.”

The award enabled additional pilot funding to seed new research and supported the necessary training and incentives to help faculty members take advantage of new resources outside the National Institutes of Health grant-award pipeline.

New non-NIH funding streams, tied to the passage of the American Recovery and Reinvestment Act and the Affordable Care Act, flowed from the Agency for Healthcare Research and Quality, the Health Resources and Services Administration and the Patient-Centered Outcomes Research Institute, as well as the Centers for Disease Control and Prevention, private companies and foundations.

“We were able to very rapidly mobilize to take advantage of that, and we received a disproportionate amount of federal funding because we applied early and often,” Larson says. “One of the things we’ve tried to do is stay nimble. We’ve been very successful.”

Over time, the HSC funding portfolio and the research it supported grew more diverse. Meanwhile, Larson also guided UNM into formal collaborations with Sandia National Laboratories and Los Alamos National Laboratory and helped initiate the Mountain States Research Consortium.

“We received a disproportionate amount of federal funding because we applied early and often.”

In practical terms, the HSC broadened the scope of its bench-to-bedside research, making use of laboratories, the UNM Hospitals and community-based studies. It has also made a significant economic impact in the community, both through job growth and expansion of New Mexico’s bioscience sector. Three to five new businesses are spun off from HSC-licensed technology each year, on average.

Before coming to UNM in 1996, Larson earned his MD and PhD degrees from Harvard, followed by a pathology residency at Washington University in St. Louis and a fellowship at Vanderbilt. He also helped launch TriCore Reference Laboratories, a collaboration among Albuquerque’s major health systems to run a shared state-of-the-art medical testing service.

“I had experience with a startup,” Larson says. “I had experience with a breadth of institutions, and through my own research I had experienced all the challenges that faculty were experiencing in not having a research enterprise and system to support them.”

In recent years, federal grant-making agencies speeded up the turnaround time for responding to their requests for applications—to less than eight weeks, in some cases, Larson notes. Many faculty members need help in applying for funding on such short timelines.

“When we put in a grant, what will you need?” he asks. “You might need help facilitating a team. You will need training in how to write or structure a grant. You may need some grant editing. You need a preaward office that can efficiently process all the internal paperwork and submit the grant.” Should a researcher succeed in securing funding, a grants management office will need to track and bill for expenses and charge the government to release the money.

Skill in scanning the funding landscape for opportunities is also critical. “I think because I’ve been in the job a long time it’s a little easier,” Larson says. “I’ve developed contacts at enough federal agencies to know quite often a trend that’s coming in various programs. Then, it’s a matter of preparing faculty to respond quickly.”

HSC researchers voice their appreciation for the focused support their work receives.

“The marriage of translational research requires a lot of things—not just people wanting to do science and research, but enabling things that are



Vojo Deretic, PhD

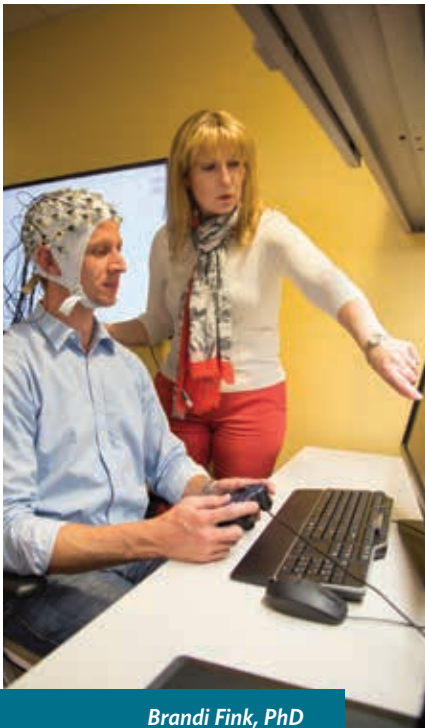
so difficult, like institutional review boards and administrative tasks,” says Vojo Deretic, PhD, professor and chair in the Department of Molecular Genetics and Microbiology.

Deretic came to UNM in 2001—two days after 9/11—bringing with him four prestigious RO-1 grants from his previous stints at the University of Michigan and University of Texas Health Science Center at San Antonio.

Within a few years of his arrival, Deretic began his research into autophagy, the “house-cleaning” process by which cells maintain their health by ridding themselves of debris. Now an internationally recognized expert in the field, Deretic has pioneered studies identifying ways in which autophagy could be enlisted to fight disease.

Deretic says that over time the HSC has developed a collegial culture that supports serious interdisciplinary research.

“Modern science is so complex, and there are so many technologies and fields that you need to understand,” he says. “It’s very hard to be in your cubicle doing one thing that you know how to do well. These kinds of intersections and multi-disciplinary things are more important than ever.”



Brandi Fink, PhD

Deretic credits Larson with the vision and determination to build the HSC's research mission. "Richard has personally made such a strong effort to keep the operations going," he says. "It's hard to find a person with that much dedication, stamina and willpower."

"It feels like people are clearing brush in front of me to help me make my way."

The development of the HSC's research infrastructure has also benefited junior faculty, says Brandi Fink, PhD, an assistant professor in the Department of Psychiatry & Behavioral Sciences and a KL2 scholar in the CTSC.

Fink, whose research focuses on addictions treatment and prevention of domestic violence, says that institutional support from the CTSC and its senior investigators has been a boon for her career.

"It feels like people are clearing brush in front of me to help me make my way," Fink says. "It's freed me up to think creatively and integratively about these problems, and I feel encouraged to do it."

Fink, who has developed apps and interactive software to help people gauge and moderate their level of intoxication, has launched a company to bring her ideas to market.

Like Deretic, she has been energized by collaborations with interdisciplinary teams that include cognitive

neuroscientists, engineers and others. "I love hearing about how these other disciplines think about the same problems and how we can work together to bring something integrative and transdisciplinary to the table," she says.

"It's been a very stimulating intellectual environment to be in. I really feel like there's nothing that holds me back. I have all the access to resources that I need—and the encouragement." ■

The Bioscience of Tomorrow

Three trends that will shape future research

Steering a large research enterprise into the future requires an accurate assessment of new trends. **Richard S. Larson, MD, PhD**, describes some transformative changes in biosciences research that lie on the horizon:

Number 1, there's a changing landscape due to new discoveries and new technology. Never has there been such a rapid increase in the number of drugs available to treat diseases, new technologies to diagnose disease or new technologies to make research faster and better. This presents continual challenges, both in supporting research, as well as for researchers to be at the cutting edge of their field.

Number 2 is the fact that America is getting substantially older. The dramatic growth of the geriatric population—which is underappreciated—will come up against the need to decrease the cost of health care amid rapidly increasing diversity. These problems will all drive aspects of research.

Finally, there is disruptive technology. Techniques such as 3D printing, automated research laboratories with advanced robotics, augmented reality and the use of artificial intelligence to analyze big data have the potential to dramatically change the way we do research within the next 10 years or so. Because they're disruptive, you can't always predict which will win out, but there are too many for one of them to not be successful.

Addiction Antidote

by Keiko Ohnuma

When Albuquerque liver-disease specialist Sanjeev Arora set about to solve the growing crisis in hepatitis C treatment in New Mexico, he could hardly have foreseen the vast impact his simple strategy would have.

Project ECHO, the telemedicine model he launched in 2003 to broadcast his expertise remotely to hundreds of physicians across the state, grew rapidly to encompass more than 60 diseases and conditions at more than 120 centers in 23 countries—all originating from that Skype-inspired model he developed at UNM.

Cardiology, oncology, autism, rheumatology, dementia—the list of specialties for which consulting could be provided remotely—surged, along with funding for TeleECHO clinics, especially after studies showed that hepatitis C patients fared just as well under ECHO-trained clinicians as under specialists.

But it took the opioid crisis to raise ECHO's profile as a medium for substance abuse treatment. In 2016 the federal Health Resources and Services Administration, which funds primary care at federal community health clinics, awarded UNM's ECHO Institute \$2.4 million to expand that ECHO project.

In some ways, opioid addiction is a stretch for the ECHO model. TeleECHO distance-learning clin-

ics connect specialist teams to local clinicians in underserved areas via live video link, not only to disseminate information on best practices, but to discuss actual cases and make recommendations.

“With hepatitis C, it's very linear,” says Chris Alliman, MD, a family medicine physician at El Centro Family Health in Las Vegas, N.M., who has participated in TeleECHO clinics for both hepatitis C and addiction. “There's a set approach: new medications, new techniques coming on line that a hepatologist, who's immersed in the whole realm of research and treatment, can bring to us to use.”

With addiction medicine, Alliman says, “it's mainly psychiatric and behavioral issues to be dealt with, so there's not a set protocol you can flow through. It's using resources like behavioral health, counseling and psychiatric care. It's more about being present with the patient and talking about their experience.”

Precisely because substance abuse is so complex, the ECHO model was applied to it right away—it was the second ECHO clinic after hepatitis C, says Miriam Komaromy, MD, who launched that mental health/substance abuse clinic 12 years ago and is now Project ECHO's associate director. Although the problem of addiction is widespread, she says, the number of medical specialists who treat it is very small nationwide. Few

primary care providers are trained in using buprenorphine, the most effective medication to treat opioid addiction, which requires a special federal license.

An associate professor of medicine at UNM, Komaromy co-authored one of only two studies on ECHO's efficacy in treating substance abuse (out of nearly 50 studies on ECHO altogether).

Reporting in *Substance Abuse* on findings from the ECHO clinic she started, Komaromy's study found that New Mexico had greatly expanded the number of primary care providers licensed to prescribe buprenorphine, especially in underserved areas—proof that the clinics had been an effective way to expand access to treatment.

The study undoubtedly played a role in securing the HRSA contract, as well as in a new requirement put out by several federal agencies that grant-seekers apply the ECHO model in their opioid treatment proposals.

“That caused a bunch of different groups to implement ECHO for opioids,” Komaromy says. At the same time, HRSA contracted with ECHO to expand its opioid treatment program to five “hubs” nationwide.

In other words, Project ECHO for Opioid Addiction Treatment grew from one hub at UNM to five hubs where clinicians from federally qualified health centers around the country can sign up to



attend biweekly sessions. At each hub, specialists in substance abuse treatment—psychiatrists, social workers, board-certified addiction specialists, community health workers and others—present a set curriculum, then open up the discussion to actual cases. Each session has a maximum of 35 participants, to facilitate learning from peers.

Curriculum topics range from screening for opioid use to pain management, preventing overdose and treatment guidelines. In the discussion that follows, providers bring up actual cases, like a patient who is pregnant and addicted to heroin, has tried treatment and relapsed, and now seeks the physician's help. The team would first ask clarifying questions, Komaromy says, then offer recommendations. "It's a kind of coaching, and everyone on the network learns from that."

Indeed, Alliman, of Las Vegas, says he has mostly been listening and absorbing his peers' experience, since he is new to treating addiction.

Gina Perez-Baron, MD, a family medicine physician at La Clinicas del Norte in Rio Arriba County, just started ECHO for Opioid Addiction but has been treating substance abuse in her own practice for about three years.

"To really get the full scope of what's required to effectively treat addiction, you need the resources that TeleECHO brings," she says. "Not just addiction medicine, but the behavioral health piece, the clinical psychology or psychiatry, the clinical pharmacy, case management. There's a number of pieces, and absolutely I think ECHO is a great way to bring that in."

Project ECHO advertises its mission as "de-monopolizing" medical

knowledge, which is why the clinics have always been offered free of charge, Komaromy says. Participants can earn continuing education credits, as well as credit toward the training required to prescribe buprenorphine, all for free.

"Paradoxically, because we don't charge for it, people love the model, and we have been fortunate in getting lots of support from funders," she says. Free training is also offered to groups around the world that want to start their own ECHO programs.

ECHO for Opioid Addiction got perhaps its biggest validation in 2008, when Congress allocated nearly a billion dollars to the states to expand access to medical treatment for opioid use. Twenty of the states in their funding proposals included the use of ECHO, Komaromy says, "so it really feels like this model has hit the big time." ■



Casting a Wider Net

by Michele Sequeira

Clinical trials of new drugs and treatments represent an important set of choices for people with cancer, while enabling clinical researchers and oncologists to improve the standard of care.

The University of New Mexico Comprehensive Cancer Center has run a state-of-the-art clinical trials program since 2014, when it was awarded a five-year, \$7 million grant from the National Cancer Institute's National Community Oncology Research Program.

The grant supports trials throughout New Mexico via the cancer center's participation in the New Mexico Cancer Care Alliance, a statewide network of health care institutions and cancer doctors. The grant has enabled the cancer center to vastly expand its reach, providing clinical trial access to hundreds of patients across the state.

"At the end of the day," says Olivier Rixe, MD, PhD, "clinical trials are for the benefit of patients, because we will be able to tailor the way we treat their cancer."

Rixe, a professor in the Department of Internal Medicine, serves as the cancer center's associate director for clinical research. He and Carolyn Muller, MD, professor and chief of the Division of Gynecology Oncology, are principal investigators for the grant.

Clinical trials are necessary to better diagnose, prevent and treat cancer, Rixe says. Each trial focuses on scientifically answering a specific question to help improve the standard of care. Improving the standard of care improves treatment and outcomes for patients with cancer.

New cancer drugs and treatments undergoing testing prior to their approval for use in people are separated into phase 1 through 4 trials. The entire approval process may take a decade or more and can cost hundreds of millions of dollars. Each clinical trial participant must follow a strict set of rules, defined by a protocol, to ensure that the data collected is as complete and accurate as possible. Federal rules help to ensure the safety and ethics of all clinical trials conducted in the U.S.

The New Mexico Cancer Care Alliance was established in 2002 as a joint not-for-profit 501(c)(3) university-community statewide cancer clinical trials and clinical research network. It consists of eight hospitals and health care systems, including the UNM Comprehensive Cancer Center, and more than 100 community-based physicians from across the state.

Through these partnerships, the alliance supports all aspects of clinical research. Physicians throughout the state get trial-specific support, such as nurses and coordinators. They also get help to meet the increased patient-monitoring needs of a clinical

trial and to capture data for clinical research.

The New Mexico Tumor Registry and several pathology laboratories work closely with the alliance to manage data and specimens for clinical research. Patients can visit their local community hospitals or practices instead of having to travel to Albuquerque—a three-hour trip or longer for some—to see if a clinical trial is an option.



Olivier Rixe, MD, PhD

The grant also supports large-scale trials and studies on cancer care delivery, cancer control and cancer survivorship.

Epidemiologists, like Anita Kinney, PhD, RN, can design and manage cancer population studies. Kinney is the lead investigator for the Cancer Care Delivery Research component, which includes population-based cancer control and survivorship research.

"What we've done in New Mexico," says Teresa Stewart, the executive director of the New Mexico Cancer Care Alliance, "is the model for the rest of the country." ■

UNM-Zuni Partnership

by Kara Leasure Shanley

On a warm, sunny autumn afternoon, 15 Zuni men and women gather around a table in a nondescript warehouse on the outskirts of the pueblo as a few people set out a healthy buffet lunch that includes homemade chicken lettuce wraps, garlic bread and fresh fruit.

Vallabh (Raj) Shah, PhD, is at the front of the room setting up his computer and projector for the presentation he is about to give. He encourages the visitors to move up—chairs are shifted a tiny bit closer and a couple of latecomers shyly sit at the front.

Shah projects a slide with two dots on opposite ends and asks how to connect them. One woman quietly says, “A line across.” Shah praises her—mentioning that about 85 percent of Americans answer the same way—but “straight shooters” are not what he is looking for. In life, he tells them, thinking outside of the box is better. He asks for other ideas.

Feeling bolder, a young woman pipes up. “A circle,” she says. Shah smiles broadly, causing everyone to giggle. He explains that a circle can represent the four directions of the earth, which means you can bring everyone with you as you connect the dots.

Shah asks for more ideas. A man with a ponytail, a bucket hat and glasses confidently looks up and says,

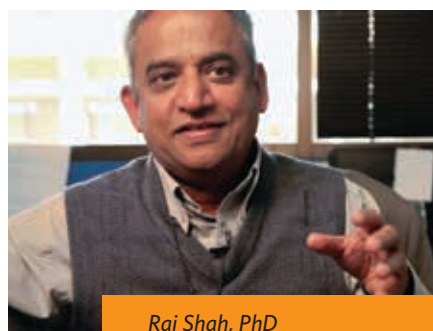
“Combine (both methods) together.” This earns the man a fist bump from Shah and laughter from the rest of the audience. “Only 3 percent of Americans are like this,” Shah says “and they are like me. They are crazy people.”

This garners another laugh from the spectators. “So, what do we do?” he asks. “We want to go from A to B, but we are going to go into every direction and try to learn things and bring people along with us.”

The easygoing exchange is part of the attraction in this group session aimed at teaching diabetic or pre-diabetic patients about their condition and how to improve their health. For the past 20 years, Shah, Regents’ Professor in the Departments of Biochemistry and Molecular Biology and Internal Medicine in the UNM School of Medicine, and his team of community health representatives have held these sessions for patients with diabetes and/or chronic kidney disease in Zuni.

Zunis face about a 20-fold chance of developing end-stage renal disease, 4.4 times higher than Americans of European or African descent and 5.6 times higher than other Native Americans. This stems from both genetics and other lifestyle factors that affect the majority of Zuni patients—such as diabetes and high blood pressure—and will eventually cause kidney failure significantly faster than other populations.

Shah’s connection to Zuni began early in 1995, when a Zuni governor admitted to UNM Hospital for kidney failure explained that many of his people had the same diagnosis and were on dialysis. Though Shah had been an experienced geneticist, his mentor of more than 20 years, Philip



Raj Shah, PhD

Zager, MD, saw an opportunity to expand their research into the genetics behind kidney disease in Zuni.

Zager and his team launched the Zuni Kidney Project, a joint venture with Zuni leadership, the UNM Health Sciences Center and the Indian Health Service.

“I still call myself a basic genetics person doing nothing but population-based science,” Shah says. He started out performing genetics studies with the Zuni people to understand the high disease prevalence, but Shah now uses disruptive innovation to prevent it.

Shah reminds his patients of how many resources are now open to cellular phone users with just a push of a button. He thinks of home-based kidney care as a disruptive

innovation—like OnStar for health care.

Home-based kidney care includes five distinct features. The first two are the community health representatives themselves—Zuni residents Donica Ghahate and Jeanette Bobelu, who visit a patient at home three times a week every other week—and point of care.

CHRs are trained to provide point of care using portable medical instruments, Shah says. They can take a prick of blood from a patient and deliver all the biochemical test results immediately to the patient. “So, when they started going to their homes,” he says, “each patient now felt that they had their own private doctor.”

The third innovation is patient preference: patients can discuss their treatment with the CHR once they understand their test results. “The idea is to make the patient part of the care team,” Shah explains. This model also allows patients to communicate directly with the CHRs or Shah, day or night, and makes use of motivational text messaging.

Shah’s group sessions represent another cog in the wheel: patient activation. He tells them, “I am informing you, I am engaging you, empowering you, possibly. I’m partnering with you. Because unless I partner with you, I cannot see any changes in you.”

These interventions have produced impressive results: 90 percent of patients improve their patient activation scores and see significant declines in body mass index and disease markers like glycated hemoglobin A (A1C) levels.

Shah points out that improved patient activation has been shown to drastically reduce readmission to the hospital and hopes this will motivate



patients to take charge of their health and that of their children.

He tells of a young Zuni girl he met during a screening and outreach session. When he asked whether she wanted a candy treat or pen and paper, the girl told him she wanted pen and paper. Asked why, she said her mother taught her that if she ate too much sugar she would end up with diabetes like her grandmother.

A woman in her mid-30s with long, elegant hair, agreed with Shah. “For me, since my daughter is still young,” she says, “I can get her to eat healthier foods, be more active and look toward the future, as far as her health and activity levels.”

Most of the participants agree that they now know how to prevent their disease from getting worse through a healthier diet and exercise. The intervention has also given them a more positive outlook on life.

“Whatever triggers the contributing factors due to diabetes, it’s scary,” says a middle-aged man with cropped hair, a goatee and glasses. “And then to be educated, to learn more—you know, we’re grateful that you come to our village.”

Shah says CHRs Ghahate and Bobelu get the credit for educating

and helping the Zuni patients develop a healthier environment for their community. He derives satisfaction from the small ways in which he can help.

“When I see those 15 people sitting there looking at me that have diabetes or kidney disease, and say, ‘I’m going to help them,’ that kind of helps me, more than anything else,” he says.

Shah hopes to take his disruptive innovation further by training new CHRs in four other Native American communities around the state in home-based kidney care. “You can take it from there to any other community,” he says.

Just as he advises Zuni patients to be active in their communities’ health, Shah has become an advocate for community engagement with significant societal issues. “You don’t just sit around and think, ‘Oh, our cost is high and I cannot contribute to our society,’” he says. “No, you *can*. that’s my motto.” ■

Magnetic Appeal

by Luke Frank

A perpetual challenge in medical imaging lies in finding ways to shine a brighter light faster to see smaller biological processes.

UNM's Brain & Behavioral Health Institute (BBHI) this year significantly powered up its neuroimaging core with a new 7Tesla (7T) research magnet, thanks to a one-time, \$1.8 million high-end instrumentation grant from the National Institutes of Health.

This powerful magnet enables scientists to track proteins and other molecules involved in brain function and to study the physiological and chemical building blocks in the brain. The increased magnetic resonance imaging (MRI) capabilities, alongside BBHI's in-house electron paramagnetic resonance and optical neuroimaging technologies, create a neurological research facility like no other in the Southwest.

"Put simply, the 7T maximizes the signal while minimizing the noise," says BBHI Director Bill Shuttleworth, PhD, Regents' Professor in the UNM Department of Neurosciences. "The images we're getting now are pretty amazing."

Principal investigator Reed Selwyn, PhD, who wrote the grant and directs the 7T operation, sees enormous potential in the new magnet. "We now can look much closer at preclinical possibilities that can lead to better medicine in the clinic," he says. "This

7T can help advance that connection. It's exciting."

Selwyn, an associate professor in the UNM Department of Radiology, envisions progress in the detection and treatment of mild concussions. "It's difficult to know what damage has been done to the brain in a mild concussion that might present later," he explains. "Using the 7T MRI, we might find damage earlier and predict—or prevent—future behavior."

The 7T uses a strong magnetic field and radio waves to create three-dimensional images. This new small-bore magnet is suited for imaging isolated organs and tissue, rather than full-body scans. Researchers use these tight images to observe and measure subtle changes in the size, function and metabolism of specific brain structures associated with disease.

The institute's unique assembly of imaging instrumentation enables researchers to observe with new depth and clarity how the brain functions in real time at the molecular level, without having to penetrate the skull. Selwyn and Shuttleworth also share a much larger vision for the 7T. Because the new magnet is sized to show metabolic processes, it's also valuable in cancer and other cutting-edge biomedical research.

"We welcome all comers to the new 7T," Selwyn says. "University researchers within and outside of UNM, as well as stalwart discovery



enterprises like Sandia and Los Alamos national labs, are all prospects. Ours is the only 7T in the region. We have a real opportunity to connect people and science."

"This is an incredibly valuable resource for New Mexico," Shuttleworth adds. "It really opens a door for UNM's research programs, but also for medical researchers and trainees across the region. We can use our new capabilities to study any number of diseases and track the effects of medical interventions over time." ■

Native Knowledge

by Michele Sequeira

We start with the population,” says Johnnye Lewis, PhD, explaining her team’s unique approach to assessing environmental impacts to health.

“Then we drill down to animal studies and cell studies. And we try to replicate what we see in the population to understand cause-effect relationships and mechanisms so that we can look for interventions that can help to reverse the effects we see.”

It’s a model she’s been honing since 1990. Back then, she worked in the private sector, cleaning up ground-water contaminated by uranium mills on Navajo lands. That led her to communities that were asking a provocative question: What is the impact of uranium mines on the long-term health of the people who live near them?

Now a professor in the UNM College of Pharmacy, Lewis’ work in Navajo country recently culminated in a National Institutes of Health grant to conduct part of its Environmental Influences on Child Health Outcomes (ECHO) initiative.

Lewis has built a multidisciplinary scientific team at UNM and has formed extensive partnerships on the Navajo Nation. She already serves as principal investigator of the Navajo Birth Cohort Study. The new award will enable her to study an expanded array of risk factors and outcomes in

55,000 children from a broad range of sociodemographic, racial and ethnic backgrounds.

Obtaining complete biological data in the rural vastness of the Navajo Nation presents unique challenges, however, so the team tapped into the cultural knowledge of Navajo partners like Qeturah Anderson.

“My passion is helping and getting the awareness of these heavy metals, mainly uranium, to the Navajo Nation,” Anderson says. “My grandfather was a uranium mine worker. We, as a family, had no history, no knowledge of health effects of uranium.”

As a team member, Anderson helps to collect data and samples from the participants, conduct assessments and teach study participants about why it is important. Armed with this knowledge, the women are more likely to keep in touch with the researchers. “We want these babies to live a healthy life,” she says.

Lewis’s team includes Matt Campen, PhD, a professor in the UNM College of Pharmacy who studies the wind-blown material from mine waste piles. Research has shown that although the concentration of toxic material in waste piles is low, small particles can easily become airborne or suspended in streams.

The team also won an award from the National Institute of Environmental Health Sciences for the Metals Exposure and Toxicity Assessment on Tribal Lands in the Southwest Center,

which studies whether toxic metals move differently through acidic soils and the cellular effects of heavy metals—and possibly how to reverse those effects.



Johnnye Lewis, PhD

“When you do epidemiologic studies, often you show just a relationship and you can’t really do a cause-effect determination from that,” Lewis says.

Her large integrated research team is pioneering a new approach to community research that looks at many aspects of an environmental health question simultaneously.

“We look at DNA damage. We look at immune system function. We look at autoimmunity,” she says, “so we don’t end up with as many uncertainties in the end.” ■

Training Grants 2017



Camden Bair, PhD Candidate

T32 Scholar, NIH

Elucidation of function of the human adenovirus type 4 early region 3 CR1 proteins

Mentor: Adriana Kajon, PhD



Roger B. Brown, PhD

T32 Scholar, NIH

Identifying effector pathways that control RNA splicing and isoform expression in differentiating hematopoietic progenitor stem cells

Mentor: Scott A. Ness, PhD



Erica Dashner-Titus, PhD

K12 Scholar, NIH

The impact of arsenic and uranium exposure on immune cell function

Mentor: Laurie Hudson, PhD



Dawn A. Delfin, PhD

KL2 Scholar, NIH

Defining interactions between cardiac stem cells and the pathologically remodeled extracellular matrix of failing hearts. Investigating the role of a protein, ABI3BP, in promoting stem cell adhesion to the heart's extracellular matrix, and enhancing differentiation of stem cells into mature cardiomyocytes.

Mentors: Matthew Campen, PhD, Carlos Roldan, MD



Neil Detweiler, PhD

K12 Scholar, NIH

Cardiovascular electrophysiology
Mentor: Nikki L. Jernigan, PhD



Tracy Dohn, PhD

K12 Scholar, NIH

Understanding the genetic mechanisms driving cardiac and muscle cell specification and differentiation
Mentor: Richard Cripps, PhD



M. Frank Erasmus, PhD

F31 Scholar, NCI

Validation of the Pre-BCR Signaling Complex in pre-B ALL Cell Model by Two-Color Single-Particle Tracking and Peptidomimetic Inhibition

Mentor: Bridget Wilson, PhD



Brandi C. Fink, PhD

KL2 Scholar, NIH

Integrative approach to identifying neurophysiological mediators of the alcohol and Intimate Partner Violence association
Mentors: C. Fernando Valenzuela, MD, PhD, Kathleen Haaland, PhD



Elani Fourie Wiest, PhD

T32 Scholar, NIH

Investigating the use of a patented device to measure transdermal hydrogen sulfide as an early biomarker of endothelial dysfunction in patients with diabetes
Mentor: Nancy Kanagy, PhD

**Selina Garcia, PhD Candidate**

T32 Scholar, NIH

Regulation of endothelial function by acid sensing ion channel 1

Mentor: Nikki L. Jernigan, PhD

Matthew Graus, PhD*photo unavailable*

T32 Scholar, NIH

How β -glucan exposure impacts Dectin-1 recruitment and signaling in the context of innate immune recognition

Mentor: Aaron Neumann, PhD

**Joseph H. Hoover, PhD**

K12 Scholar, NIH

Geospatial science, environmental health, water resources

Mentor: Johnnye L. Lewis, PhD

**Johnny A. Kenton, PhD Candidate**

T32 Scholar, NIH

Optogenetic modulation of corticostriatal circuit disrupted by prenatal alcohol exposure

Mentors: Jonathan L. Brigman, PhD, C. Fernando Valenzuela, MD, PhD, Lee Anna Cunningham, PhD, Benjamin J. Clark, PhD

**Naomi Lee, PhD**

K12 Scholar, NIH

Vaccine development and molecular epidemiology of infectious diseases in American Indian and Alaska Native communities

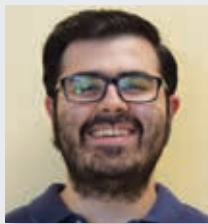
Mentor: Bryce Chackerian, PhD

**Lindsey J. Long, PhD**

K12 Scholar, NIH

Understanding mechanisms of DNA repair in quiescent cells

Mentor: Mary Ann Osley, PhD

**Daniel A. Lujan, PhD Candidate**

F31 Scholar, NCI

Role of the RNA-binding protein in breast cancer

Mentors: Nora Perrone-Bizzozero, PhD, Rebecca Hartley, PhD

**Adrian Luna, PhD Candidate**

T32 Scholar, NIH

HPV oncogene regulation during benign infection

Mentors: Michelle Ozbun, PhD, Gregory Gan, MD, PhD, Laurie Hudson, PhD, Jennifer Gillette, PhD

**Levi D. Maston, MD, PhD Candidate**

F30 Scholar, NIH

Investigating inflammatory mechanisms underlying progression of pulmonary hypertension resulting from long-term exposure to hypoxia

Mentors: Laura Gonzalez Bosc, PhD, Thomas Resta, PhD, Judy Cannon, PhD

**Perenkita Mendiola, PhD Candidate**

T32 Scholar, NIH

Identification of endogenous regulators of cystathionine gamma-lyase (CSE) in endothelial cells

Mentor: Nancy Kanagy, PhD

**Alfreda Nelson, PhD**

K12 Scholar, NIH

Mechanisms of antigen-mediated aggregation of ITAM-bearing immune receptors and transduction of early signaling events into eventual immune cell responses

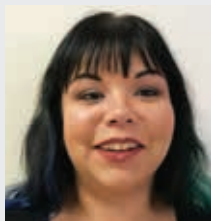
Mentor: Bridget Wilson, PhD

**Robert Oliver, PhD Candidate**

F31 Scholar, NIH

Post-transcriptional regulation of addiction-related genes in an animal model of cocaine seeking

Mentor: Nora Perrone-Bizzozero, PhD

**Dominique Perez, PhD Candidate**

T32 Scholar, NIH

Cyclic AMP efflux inhibition as potential therapeutic target for leukemia

Mentors: Alexandre Chigaev, PhD, Larry A. Sklar, PhD

**John Pinner, PhD Candidate**

T32 Scholar, NIH

Relationships between brain function, brain structure, and behavior in children with Fetal Alcohol Spectrum Disorder

Mentors: Julia Stephen, PhD, James Cavanagh, PhD

Anita L. Ray, PhD Candidate*photo unavailable*

T32 Scholar, NIH

The role of inflammation in development and progression of colorectal cancer

Mentor: Ellen Beswick, PhD

**Katelyn Reinhart, PhD Candidate**

T32 Scholar, NIH

Basic physiological mechanisms of spreading depolarization that contribute to the progression of brain injuries including stroke

Mentor: C. William Shuttleworth, PhD

**Chelsea Saito-Reis, PhD Candidate**

T32 Scholar, NIH

Role of CD82 in regulating hematopoietic stem cell adhesion and signaling

Mentor: Jennifer Gillette, PhD

**Sabrina Samudio-Ruiz, PhD**

K01 Scholar, NCI

EGFR signaling and epigenetic alterations, particularly DNA methylation, associated with the development of platinum resistance in ovarian cancer

Mentor: Laurie Hudson, PhD

**Joshua Sanchez, PhD Candidate**

T32 Scholar, NIH

Neuroscience and Fetal Alcohol Spectrum Disorder

Mentor: Erin Milligan, PhD

**Joshua Sheak, MD, PhD Candidate**

F31 Scholar, NIH

Investigating a novel intracellular signaling pathway to pulmonary hypertension in infants using an animal model

Mentors: Thomas Resta, PhD, Nancy Kanagy, PhD, Nikki Jernigan, PhD

**Tess Shideler, PhD**

K12 Scholar, NIH

Endosomal transport of EGFR

Mentor: Angela Wandinger-Ness, PhD

**Christina Termini, PhD**

F31 Scholar, NIH

Identify the mechanisms and molecules that regulate hematopoietic stem/progenitor cell adhesion to the microenvironment to provide clinical targets to enhance HSPC transplantation therapies

Mentor: Jennifer Gillette, PhD



Laura Weise Cross, PhD

K12 Scholar, NIH

Vascular Biology, Physiology, Pathology

Mentors: Tom Resta, PhD, Terri Koontz



Lea Weston, PhD Candidate

T32 Scholar, NIH

Investigating the relationship between neuroinflammation and tau pathology

Mentor: Kiran Bhaskar, PhD



Christine Woods, PhD

K12 Scholar, NIH

Investigating mechanism by which G protein-coupled estrogen receptors regulate metabolic process in the liver

Mentors: Karen Bentz, Eric Prossnitz, PhD

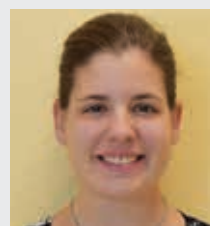


Sheldwin A. Yazzie, PhD

K12 Scholar, NIH

Environmental Epidemiology

Mentors: Charles Wiggins, PhD, Kevin English, DrPH

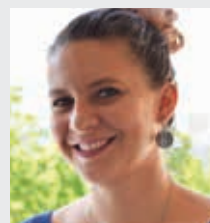


Kayla Zehr, PhD Candidate

T32 Scholar, NIH

Mechanisms by which omega-3 polyunsaturated fatty acids mediate antioxidant effects in the vasculature, thus protecting blood vessels from xenobiotic-induced oxidative stress and dysfunction

Mentor: Mary K. Walker, PhD



Nesia Zurek, PhD

T32 Scholar, NIH

Molecular Biomimicry and Bioengineering

Mentor: Aaron Neumann, PhD



Katherine Zychowski, PhD

K12 Scholar, NIH

Investigating the mechanism behind uranium and vanadium particulate-driven endothelial dysfunction in the Navajo Nation

Mentor: Matthew Campen, PhD

Excellence in Research Awards 2017

The UNM Health Science Center's Ninth Annual Research Day Awards Ceremony was held on November 17, 2017. Five scientists who were nominated by their peers were selected for awards by a faculty committee on the basis of their outstanding research contributions. Award recipients were recognized in five categories.



Kristi Watterberg, MD
Pediatrics Clinical Science Research

For more than 30 years, Kristi Watterberg has made invaluable contributions in the field of perinatal and neonatal clinical care, with a particular focus on inflammation and the development of bronchopulmonary dysplasia (BPD), adrenal function and insufficiency in infants, as well as the use of hydrocortisone to decrease BPD and improve neurodevelopment. Watterberg is considered the world's expert on neonatal-perinatal adrenal function and adrenal insufficiency in preterm infants.



Meilian Liu, PhD
Biochemistry and Molecular Biology
Junior Faculty Research

Meilian Liu's research focuses on identifying potential treatments for obesity and related diseases. She studies how adipocyte-derived factors (adipokines, chemokines and lipids) mediate communication between adipocytes and adipose-resident innate or innate-like immune cells. An interest of her lab is the development and activation of beige and brown fat—especially beiging of white adipose tissue—using *in vivo*, *ex vivo* and *in vitro* approaches in animal models, and recently in humans.



UNM Health Sciences Center 2017 Excellence in Research Awards recipients, left to right: Kristi Watterberg, MD, Robert Rhyne, MD, Angela Wandinger-Ness, PhD, Meilian Liu, PhD, and Akshay Sood, MBBS, MPH.



Akshay Sood, MBBS, MPH
Internal Medicine
Team Science Research

Akshay Sood's research into the epidemiology of chronic lung diseases demonstrates his commitment to team science. He encourages trainee participation in his teams, with many of his mentees serving as first authors on his publications. He has worked with large cohorts in New Mexico and nationally. Through his leadership, the School of Medicine partnered with Miners Colfax Medical Center in Raton, N.M., to create the Southwest Mining Health Center of Excellence.



Robert Rhyne, MD
Family and Community Medicine
Population Science Research

Robert Rhyne's professional and academic career has focused on improving the health and health care of medically underserved, multi-ethnic populations and communities. He has been continually funded with external grant support for the entire 33 years he has been on faculty at UNM. He has brought his experience in epidemiology and community medicine to bear on specific areas of practice-based research, health disparities, community engagement, evidence-based medicine and preventive medicine.



Angela Wandinger-Ness, PhD
Basic Science Research

Angela Wandinger-Ness leads an extremely productive research team studying GTPase-targeted small molecules and their potentials for developing novel cancer therapy. She also holds seven patents relating to new treatments for polycystic kidney disease and ovarian cancer. Her in-depth mechanistic research leading to these patents will likely contribute to new treatment options for these two devastating diseases. She has more than 75 peer-reviewed publications, most of which are in high-impact journals.

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Office of the Chancellor

Loretta Doyle

Albuquerque Area Indian Health Service
Provide Locum Tenens Services to
Albuquerque Area Indian Health
Service Clinics or Hospitals \$175,000

Gila Regional Medical Center
Professional Services \$25,000

Ramah Navajo School Board, Inc.,
dba Pine Hill Health Center
Professional Services \$25,000

Cañoncito Band of Navajos
Health Center
Locum Tenens Services \$25,000

Christus St. Vincent Regional
Medical Center
Professional Services \$25,000

UNM Sandoval Regional
Medical Center
Professional Services for
UNM SRMC \$25,000

Rio Grande Counseling and
Guidance Services
Professional Services \$25,000

Holy Cross of Taos
Professional Services \$25,000

ViewPoint Rehabilitation Center
Professional Services \$25,000

Christus St. Vincent Regional
Medical Center
Professional Services \$25,000

Cibola General Hospital
Professional Services \$25,000

Sheila Hickey

Health Resources and Services
Administration
Scholarship for Disadvantaged
Students \$617,837

Health Resources and Services
Administration
Scholarship for Disadvantaged
Students \$555,536

Health Resources and Services
Administration
Scholarship for Disadvantaged
Students \$94,464

Steven McLaughlin

DCI Donor Services
Medical Director Services \$19,777

Mark Unruh

Veteran's Affairs Medical Center
Interventional Cardiology Services
at NMVAHCS \$832,498

Office of the Executive Vice Chancellor

Ryan Cangioli

U.S. Department of Justice
HOPE Initiative Strategic Plan \$25,000

Richard Larson

UNM Foundation
Private Gifts for Research \$756,708

UNM Foundation
Private Gifts for Research \$299,980

UNM Foundation
Private Gifts for Research \$220,420

Brain & Behavioral Health Institute

Reed Selwyn

National Institutes of Health
Purchase of a High-Gradient
Strength 7T 30 cm Bore Magnetic
Resonance \$1,785,000

Center for Infectious Disease & Immunity

Michelle Ozbun

National Institute of Allergy
and Infectious Diseases
Biology of Infectious Disease
and Inflammation \$279,487

Terry Wu

National Institute of Allergy
and Infectious Diseases
Task A110 \$775,338

Defense Threat Reduction Agency
Evaluation of Novel Subunit Tularemia
Vaccines in Rat & Non-Human Primate
Aerosol Infection Models \$600,454

Defense Threat Reduction Agency
Evaluation of Novel Subunit Tularemia
Vaccines in Rat & Non-Human Primate
Aerosol Infection Models—
Specific Supplement \$330,100

Sandia National Laboratories
NanoCRISPR Grand Challenge \$105,247

Memory & Aging Center

Gary Rosenberg

Acadia Pharmaceuticals
Pimavanserin for Treatment of Agitation
and Aggression in Alzheimer's Disease \$122,282

National Center for Research Resources
MRI and CSF Biomarkers of
White Matter Injury in VCID \$1,065,299



National Institute of Neurological
Disorders and Stroke
Biomarkers for White Matter Injury
in Mixed and Vascular Cognitive
Impairment \$434,416

University of Southern California
Long-Term Nicotine Treatment of
Mild Cognitive Impairment \$333,300

National Institute of Neurological
Disorders and Stroke
White Matter Hypoxia in Novel
Model of MMP-Mediated
Inflammation SHR/SP \$331,406

University of Southern California
Phase 2/3: Therapeutic Effects of
Intranasally-Administered Insulin
in Adults with mild Alzheimer's
Disease \$241,460

Acadia Pharmaceuticals
Extension Study of Pimavanserin
for the Treatment of Agitation and
Aggression in Subjects with
Alzheimer's Disease \$122,402

Martinez, Hart, Thompson & Sanchez
Consultation \$300

Office of the Vice Chancellor for Research

Richard Larson

Harvard University
SMART IRB Ambassador \$35,336

Presbyterian Healthcare Services
Agreement to Participate in Democracy
Collaborative Anchor Institution
Strategy Project \$30,000

Animal Research Facility

Richard Larson

New Mexico VA Health Care System
Veterinary Services for the New
Mexico Veterans Affairs Health
Care System \$28,176

Clinical & Translational Science Center

Darrell Dinwiddie

Apellis Pharmaceuticals, Inc.
Human Microbiome
Characterization \$75,750
University of Utah
University of Utah Center for Clinical
and Translational Science \$17,957

Brandi Fink

National Institute on Alcohol Abuse
and Alcoholism
Over-Arousal as a Mechanism between
Alcohol and Intimate Partner
Violence \$187,617
VisionQuest Biomedical
PALMS: Personal Alcohol Management
System \$43,568

Deborah Helitzer

National Center for Advancing
Translational Sciences
University of New Mexico Clinical
and Translational Science
Center KL2 \$331,150

Alberta Kong

National Heart, Lung, and Blood
Institute
ACTION PAC: Adolescents Committed
to Improvement of Nutrition
and Physical Activity \$712,953

Richard Larson

National Center for Advancing
Translational Sciences
University of New Mexico Clinical

and Translational Science
Center \$3,301,965

University of Nevada, Las Vegas
Clinical and Translational Research
Infrastructure Network
IDeA-CTR/CRDEB \$401,890

National Center for Advancing
Translational Sciences
CTSC- Biomarker-Based Incidence Estimation
of Hepatitis C Infection in Young
Adult Injection Drug Users \$84,262

National Center for Advancing
Translational Sciences
CTSC- Biomarker-based Incidence Estimation
of Hepatitis C Infection in Young
Adult Injection Drug Users \$63,425

National Center for Advancing
Translational Sciences
CTSC- Mechanisms of Immunotoxicity
Produced by Uranium, Arsenic
and Combined Exposure \$46,575

National Center for Advancing



Translational Sciences
CTSC- Mechanisms of Immunotoxicity
Produced by Uranium, Arsenic
and Combined Exposure \$35,257

Hengameh Raissy

Eunice Kennedy Shriver National
Institute of Child Health and Human
Development
UNM Pediatric Clinical Trial Site in IDeA
State Pediatric Clinical Trial
Network \$1,863,610

Sarah Pirio Richardson

Dystonia Medical Research Foundation
Dystonia Coalition Clinical Projections:
Project 1 \$28,550

Bill Shuttleworth

Various
CTSC North Core Services—FY17
(EPR, MRI & Optical) \$25,000

College of Nursing

Gloria Dixon

University of Colorado—Denver
CO-APEX Collaborative Advanced
Psychiatric Education Exchange \$192,674

Denai Forrest

Veteran's Health Administration
VA Nursing Academic
Partnerships \$246,344
Veteran's Health Administration
VA Nursing Academic
Partnerships \$204,703
New Mexico VA Health Care System
VA Nursing Academic
Partnerships \$55,250

Southcentral Foundation
Exploring Palliative Care Communication
with Alaska Native and American
Indian People at Two Primary
Care Sites \$110,564

Anonymous Nonprofit Foundation
Environmental Health and Cancer
Oral Histories: Narratives of
Resilience \$39,204

Judy Liesveld

U.S. Indian Health Service
Success in Nursing for Native Americans
through Collaboration \$332,715
Health Resources and Services
Administration
BSN Practicum with Navajo
Indian Health Service \$305,236

National Council of State Boards
of Nursing
*Are There Outcome Differences Between
NMNEC ADN, BSN and ADN/BSN
Co-Enrolled Students?* \$192,481

New Mexico Board of Nursing
*New Mexico Nursing Education
Statewide Planning* \$74,144

New Mexico Board of Nursing
*BSN Practicum Scholarships
on the Navajo Reservation* \$14,400

Janice Martin
El Pueblo Health Service
El Pueblo Health Services \$113,435

UNM Hospital
*CON & UNMH (Haeffele
& De Rego)* \$73,747

First Nations Community
Healthsource, Inc.
*First Nations Community
Healthsource, Inc.* \$63,074

El Centro Family Health
El Centro Family Health Contract \$59,721

Mountain Spirit Integrative Medicine
Mountain Spirit-Heidi Rogers \$59,720

UNM Hospital
*Ambulatory Care Providers
(Haeffele)* \$32,076

Presbyterian Healthcare Services
Certified NP Services \$31,363

Carolyn Montoya
Bureau of Health Workforce
*UNM College of Nursing ANEW
Project* \$509,306

Health Resources and Services
Administration
*ACA-Nurse Faculty Loan
Program* \$111,576

Bureau of Health Resources
Development
Nurse Faculty Loan Program \$103,437

Nancy Ridenour
City of Albuquerque
*Geriatric Education and
Health Maintenance Clinic* \$67,000

LeeAnna Vargas
New Mexico Board of Nursing
*University of New Mexico and
La Salle Nursing Exchange* \$2,255

College of Pharmacy

Joe Anderson
New Mexico Department of Health
*Health Systems Data Management
and Use of Team-Based
Health Care* \$40,000

New Mexico Pharmacist Association
*NMPHA Continuing Education
Course "Physical Assessment
for the Pharmacist Clinician"* \$4,433

Ludmila Bakhireva
National Institute on Alcohol Abuse
and Alcoholism
*Early Indices of Atypical
Neurodevelopment Associated
with Fetal Alcohol Exposure* \$619,531

University of California, San Diego
*Organization of Teratology Information
Specialists Research Network* \$24,000

Barry Bleske
University of Michigan
*Genetic Determinants of ACEI
Prodrug Activation* \$25,823

Scott Burchiel
Columbia University
*Arsenic Exposure, Impaired
Respiratory Function and
Immunosuppression* \$212,499

Matthew Campen
National Institutes of Health
*Enhancement of Coronary Constriction
by Volatile Organic Air Toxics* \$703,049

National Institutes of Health
*Inhalation of Contaminated Mine
Waste Dusts as a Route for
Systemic Metal Toxicity* \$521,024

Centers for Disease Control
and Prevention
*Systemic Health Implications of
Occupational Nanomaterial
Exposure* \$482,164

University of Washington
*Cardiovascular Consequences of Immune
Modification by Traffic-Related Emissions
(as a Subproject of the University
of Washington Clean Air Research
Center)* \$30,000

Indiana University
*Chronic Particulate Matter Exposure,
Inflammation and Atherogenesis
in At-Risk Children* \$26,305

Eszter Erdei
Black Hills Center for American
Indian Health
*NARCH 7: Complex Metal Exposure
and Immune Status on the
Cheyenne River* \$109,360

Boston University
*Prevalence and Risk Factors for Chronic
Kidney Disease of Non-Traditional
Etiology* \$7,033

Linda Felton
Biomedical Research Institute
of New Mexico
*Formulation Development
Services* \$150,000

U.S. Department of Veterans Affairs
*Formulation and Batch Records
for the VA Medical Center in
Albuquerque, New Mexico* \$95,482

Larry Georgopoulos
First Choice Community Healthcare
*Pharmacist Consultant
Agreement* \$280,000

First Nations Community
Healthsource, Inc.
*First Nations Community
Healthsource, Inc.* \$30,000

Gallup Cardiology
*Radiopharmaceutical Goods
and Services* \$25,000

Donald Godwin
Health Resources and Services
Administration
Health Professional Student Loan \$17,047

Pamela Hall
National Institutes of Health
*Sex-Dependent Phagocyte
Clearance of Staphylococcus
Aureus* \$224,675

National Institutes of Health
*Inducing Immune Control of Bacterial
Virulence Regulation* \$224,452

Laurie Hudson
National Institutes of Health
*Zinc Chemoprevention of Arsenic
Co-Carcinogenesis* \$314,363

Bernadette Jakeman
National Association of Chain Drug
Stores Foundation
*Improving Access Project:
Tuberculosis Testing and Latent
Tuberculosis Infection Treatment
in Community Pharmacies* \$70,905

Johnnye Lewis

Centers for Disease Control and Prevention
A Prospective Birth Cohort Study Involving Uranium Exposure in the Navajo Nation \$1,310,000

National Institutes of Health
Understanding Risk Gradients from Environment on Native American Child Health Trajectories: Toxicants, Immunomodulation, Metabolic Syndromes & Metals Exposure \$1,075,566

National Institute of Environmental Health Sciences
Center for Native American Environmental Health Equity Research \$716,470

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

U.S. Environmental Protection Agency
Center for Native American Environmental Health Equity Research \$250,000

University of Montana
Wood Stove Interventions and Child Respiratory Infections in Rural Communities \$159,593

National Institute of Environmental Health Sciences
Diversity Supplement: UNM Center for Native Environment Health Equity \$14,040

Jim Liu

University of Louisville
Particulate Cr(VI) Toxicology in Human Lung Epithelial Cells and Fibroblasts \$52,820

Renee-Claude Mercier

International Health Management Associates, Inc.
Shionogi Surveillance Study \$2,400

Pavan Muttill

University of Pretoria
Inhaled BCG Vaccine for Enhanced Protection Against Tuberculosis \$48,000

Michigan Technological University
Development of a Multi-epitope L2 Bacteriophage VLPs Vaccine to Enhance Protection Against Oral HPV Infections in HIV Patients \$42,276

American Foundation for Pharmaceutical Education
AFPE Scholarship, Elliott Miller/Pavan Muttill \$5,000

Michigan Technological University
Development of a Multi-epitope L2 Bacteriophage VLPs Vaccine to Enhance Protection Against Oral HPV Infections in HIV Patients \$2,242

Jeffrey Norenberg

Sandia National Laboratories
Development of Protocells for Applications in Chemical Defense \$30,000

Dennis Raisch

University of South Carolina
Southern Oncology Network on Adverse Reactions \$47,183

Melissa Roberts

Analysis Group, Inc.
GSK Global Exacerbation Study \$200,000

Sabrina Samudio-Ruiz

National Cancer Institute
EGF Receptor, DNA Methylation and Platinum Resistance in Ovarian Cancer \$129,216

Jay Simon

Sandia National Laboratories
SNL Isotopes Request \$2,800

Susan Smolinske

Health Resources and Services Administration
Poison Control Stabilization And Enhancement Program \$110,901

Denver Health and Hospital Authority
Researched Abuse, Diversion and Addiction-Related Surveillance System \$15,623

American College of Medical Toxicology
MOU/ACMT Toxic North American Snake Bite Registry \$10,500

Texas Tech University
Pediatric Environmental Health Specialty Unit Program \$7,500

Denver Health and Hospital Authority
Researched Abuse, Diversion and Addiction-Related Surveillance System \$1,562

Denver Health and Hospital Authority
Researched Abuse, Diversion and Addiction-Related Surveillance System \$1,562

Mary Walker

National Institutes of Health
Vasoprotective Mechanisms of n-3 PUFA Epoxides \$454,500

Teva Pharmaceutical Industries, Ltd.
Laquinimod Metabolism By Cytochrome P4501A1 In Vivo \$244,577

Teva Pharmaceutical Industries, Ltd.
PSA Teva Pharmaceutical Consulting \$27,879

Traci White

Mesilla Valley Hospice
Mesilla Valley Hospice Clinical Agreement \$37,341

College of Population Health**William Athas**

New Mexico Department of Health
Geocoding—Environmental Health Tracking \$109,176

Lisa Cacari-Stone

New Mexico Office of Superintendent of Insurance
ACA-NM Office of Superintendent of Insurance Professional Service \$300,000

Rebecca Rae

Santa Clara Pueblo
Khapoo Owinge RezRIDERS Project \$60,000

Noell (Sue) Stone

Colorado Foundation for Public Health and the Environment
ACA—The Hispanic Family Asthma Network \$49,999

Kristine Tollestrup

Tulane University
ACA-Region 6 Public Health Training Center \$97,554

Nina Wallerstein

National Institutes of Health
Advancing CBPR Practice Through a Collective Reflection and Measurement Toolkit \$541,419

National Institutes of Health
Family Listening Program \$535,470

National Institutes of Health
Family Listening Program: Multi-Tribal Implementation and Evaluation \$59,497

National Institutes of Health
*Advancing CBPR Practice Through
a Collective Reflection and Measurement
Toolkit—Informationist
Supplement* \$37,872

School of Medicine

School of Medicine Dean's Office

David Pitcher

New Mexico Department of Health
*Sustain Level I Trauma Center Designation
and Improve Financial Viability of Trauma
Service and Program* \$562,562

Gary Smith

Professional and Organizational
Development Network
POD Internship \$5,200

Comprehensive Cancer Center

Cecilia Arana Yi

New Mexico Cancer Care Alliance
Clinical Trial Phase 1 \$102,360

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$77,595

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$51,165

Marianne Berwick

National Cancer Institute
*Integration of Clinical and Molecular
Biomarkers for Melanoma
Survival* \$2,292,665

Memorial Sloan-Kettering Cancer Center
*Personalized Genomic Testing for Melanoma:
Maximizing Personal Utility and
Research—Continuation* \$258,917

Ursa Brown-Glaberman

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$105,285

New Mexico Cancer Care Alliance
Clinical Trial Phase 3 \$95,560

Muhammad Chohan

New Mexico Cancer Care Alliance
Clinical Trial Phase 1 \$95,191

Matthew Fero

University of Washington
*Systems and Carcinogenic Impact
Assessment of Topical Microbicides
on Human Mucosa* \$231,931

Oxnard Foundation
*Oxnard- Myelodysplastic Syndrome
with a PDX tissue repository* \$150,000

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

Baylor College of Medicine
*The Genomics of High-Risk ALL
in Children with Down Syndrome* \$9,894

Deirdre Hill

National Cancer Institute
*The Natural History of Untreated
Breast Cancer* \$68,175

National Cancer Institute
*The Natural History of Untreated
Breast Cancer* \$7,575

Anita Kinney

National Cancer Institute
GRACE \$629,227

National Cancer Institute
Tai Chi Qigong \$623,021

Richard Lauer

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$121,985

New Mexico Cancer Care Alliance
Clinical Trial Phase 3 \$117,125

New Mexico Cancer Care Alliance
Clinical Trial 1b/2 \$99,675

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$89,860

New Mexico Cancer Care Alliance
Clinical Trial Phase 3b/4 \$78,880

Ben Liem

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$87,175

Elizabeth Lokich

Women and Infants' Hospital
of Rhode Island
CUTI \$722

Carolyn Muller

National Cancer Institute
*NCI Early Onset Malignancies
Program* \$120,000

New Mexico Cancer Care Alliance
Clinical Trial Phase 3 \$102,600

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$101,960

Women and Infants' Hospital
of Rhode Island
CUTI \$29,660

Laura Nervi

Consulate of Mexico in Albuquerque
Ventanilla de Salud \$36,979

American Cancer Society
ACS-VDS Achievement Award \$20,000

Scott Ness

University of Texas MD Anderson
Cancer Center
SGTB—MDCCC Subaward \$410,148

Renata Pasqualini

National Institutes of Health
*Targeting Lymphatic Vessels
for Ligand Directed Imaging* \$346,556

AAVP Biosystems, LLC
*Generation and Production of AAVP for
Non-GLP Toxicology Studies* \$250,000

Gillson Longenbaugh Foundation
In Vivo Antibody Phage Display \$75,000



Renata Pasqualini, continued

Gillson Longenbaugh Foundation
In Vivo Antibody Phage Display—
Continuation \$45,000

Eric Prossnitz

New Mexico State University
New Mexico IDeA Networks of Biomedical
Research Excellence \$401,535



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

Dialysis Clinic, Inc.
Targeting GPER to Prevent and Treat
Chronic Kidney Disease \$169,500

New Mexico State University
New Mexico IDeA Networks of Biomedical
Research Excellence \$120,800

New Mexico State University
New Mexico IDeA Networks of Biomedical
Research Excellence \$1,414

Olivier Rixe

National Cancer Institute
NCI Community Oncology Research
Program Minority Underserved
Community \$1,279,676

New Mexico Cancer Care Alliance
Clinical Trial Phase 1 \$114,183

New Mexico Cancer Care Alliance
Clinical Trial Phase 2 \$112,775

New Mexico Cancer Care Alliance
Clinical Trial Phase 1 \$96,260

New Mexico Cancer Care Alliance
Clinical Trial Phase 1 \$95,515

New Mexico Cancer Care Alliance
Clinical Trial Phase 1b \$94,340

New Mexico Cancer Care Alliance
Clinical Trial Phase 1/2 \$89,860

Montaser Shaheen

New Mexico Cancer Care Alliance
Clinical Trial Phase 2b \$124,225

Larry Sklar

Leidos, Inc
NCI Experimental Therapeutic—
LDHA Project \$571,947

Leidos, Inc.
NCI Experimental Therapeutics Chemical
Biology Consortium \$399,999

Leidos, Inc.
NCI Experimental Therapeutics Chemical
Biology Consortium—Specific
Supplement \$239,000

Leidos, Inc
NCI Experimental Therapeutics Chemical
Biology Consortium \$190,650

Weill Cornell Medical College
Novel DNA Double Strand Break Repair
Targeting Therapeutics for Cancer
Treatment \$180,136

Leidos, Inc
NCI Experimental Therapeutics Chemical
Biology Consortium—Specific
Supplement \$92,022

Alan Tomkinson

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

National Institute of General
 Medical Sciences
Roles of DNA Ligase 1 in Mammalian
DNA Metabolism \$267,866

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

Cosette Wheeler

National Cancer Institute
New Mexico HPV Outcomes, Practice
Effectiveness and Surveillance
—Specific Supplement \$399,756

Charles Wiggins

National Cancer Institute
SEER (Surveillance, Epidemiology
and End Results) Program \$3,024,859

National Cancer Institute
SEER (Surveillance, Epidemiology
and End Results) Program \$107,576

National Cancer Institute
Population-Based Evaluation
of Comorbidity \$55,720

National Cancer Institute
Improving Outpatient Reporting of Cancer
Occurrence and Treatment \$50,780

Memorial Medical Center
Memorial Medical Center Abstracting
Services BAA \$45,000

National Cancer Institute
SEER POC 2016-01 \$39,882

New Mexico Department of Health
NMDOH BCC Surveillance
Project 2017 \$6,330

Cheryl Willman

National Cancer Institute
University of New Mexico Cancer
Center Support Grant \$2,242,152

Children's Hospital of Philadelphia
Clinical Trial Agreement \$914,256

National Cancer Institute
Cancer Health Disparities Regional
Training Network \$246,024

New York University
Project 4: Targeted Nanotherapeutics
for Acute Lymphoblastic Leukemia
Therapy \$211,307

National Cancer Institute
Cervical Cancer in El Salvador:
Matching Needs with Sustainable
Solutions \$163,814

Children's Hospital of Philadelphia
Testing Targeted Therapy in Philadelphia
Chromosome-like (Ph-like) ALL \$123,716

National Cancer Institute
Administrative Supplements
to Strengthen NCI-Supported
Community Outreach Capacity
Through Community Health Educators
of the National Outreach
Network \$123,494

National Cancer Institute
CURE Program—P30 \$113,625

Cowboys for Cancer Research
Cowboys for Cancer Research \$89,815

St. Jude Children's Research Hospital
Center for Precision Medicine
in Leukemia \$57,594

Children's Hospital of Philadelphia
Use of Unbiased Transcriptomic
Sequencing for Rapid Identification
of Clinically Targetable Mutations
in Ph-Like ALL in the Context of
COG Clinical Trials \$45,600

Gabrielle's Angel Foundation
*Define Mutational Signatures from Whole
 Genome Sequences of Children with
 Acute Lymphoblastic Leukemia* \$40,000

Albuquerque Area Indian
 Health Service
*Outpatient Professional Oncology Diagnostic
 and Therapeutic Services* \$25,000

Gabrielle's Angel Foundation
*Define Mutational Signatures from Whole
 Genome Sequences of Children with
 Acute Lymphoblastic Leukemia* \$20,000

National Cancer Institute
 UNM Cancer Center Support
 Grant \$3,859

Bridget Wilson

National Institute of General
 Medical Sciences
*Center for the Spatiotemporal
 Modeling of Cell Signaling* \$2,469,111

National Institute of General
 Medical Sciences
*Center for the Spatiotemporal
 Modeling of Cell Signaling* \$50,356

Anesthesiology

Eugene Koshkin

Boston Scientific Corporation
 UNM Pain Medicine Fellowship \$15,000
 Boston Scientific Corporation
 UNM Pain Medicine Fellowship \$15,000
 Medtronic
 UNM Pain Medicine Fellowship \$15,000

Biochemistry & Molecular Biology

Natalie Adolphi

National Institute of Justice
*Evaluation of the Routine Use of
 CT Scanning to Supplant or Supplement
 Autopsy in a High-Volume Medical
 Examiner's Office* \$619,325

Sandia National Laboratories
*Optimization of Hydrogel-Like Matrices
 for Stabilization of Substances for
 Environmental Remediation
 and Therapeutics* \$200,000

Sandia National Laboratories
*Optimization of Hydrogel-Like Matrices
 for Stabilization of Substances for
 Environmental Remediation
 and Therapeutics* \$50,000

Sandia National Laboratories
*Development of Protocells for Applications
 in Chemical Defense* \$40,000

University of Louisville
*Biomechanical Investigation of the
 Effect of Bone Disorders on Pediatric
 Femur Fracture Potential* \$4,748

Meilian Liu

American Diabetes Association
*Adiponectin Regulation of ILC2
 and Thermogenesis* \$345,000

Vallabh Shah

Patient-Centered Outcomes Research
 Institute
*Home-Based Chronic Kidney Disease
 Care in Native Americans of New Mexico—
 A Disruptive Innovation* \$2,053,630

Cell Biology & Physiology

Oscar Bizzozero

National Multiple Sclerosis Society
*Identification of miRNAs that Downregulate
 Nrf2 Signaling in EAE* \$44,000

Helen Hathaway

Imagion Biosystems
*Detection of Cancer Using Magnetic
 Nanoparticles and Magnetic
 Relaxometry* \$108,900

University of Texas, El Paso
*BUILDing SCHOLARS—
 Continuation* \$44,240

Rebecca Hartley

American Association of Anatomists
*Cold-Inducible RNA Binding Protein
 in Breast Cancer* \$25,000

Nikki Jernigan

National Institutes of Health
*Vascular Smooth Muscle Function
 in Pulmonary Hypertension—
 Continuation* \$377,500

Stephen Jett

Sandia National Laboratories
*Transmission Electron Microscope Analysis
 of Graphene-Based Desalination
 Membranes* \$3,030

Nancy Kanagy

National Heart, Lung, and Blood
 Institute
*Hydrogen Sulfide Regulation of
 Vascular Tone and Blood Pressure—
 Continuation* \$378,750

Exhalix, LLC
*Noninvasive Transdermal Gasotransmitter
 Sensor for Chronic Disease
 Monitoring* \$73,950

Nora Perrone-Bizzozero

National Cancer Institute
*Cold-Inducible RNA Binding Protein
 Links Inflammation and Breast
 Cancer* \$34,606

Thomas Resta

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

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

National Institutes of Health
*Minority Institutional Research Training
 Program (T32)—Continuation* \$362,789

National Heart, Lung, and Blood
 Institute
*The Role of Adaptive Immunity in Chronic
 Hypoxia-Induced Pulmonary Hypertension—
 Continuation* \$29,287

National Heart, Lung, and Blood
 Institute
*Role of PKC beta and Oxidant Signaling
 in Neonatal Pulmonary Hypertension—
 Continuation* \$16,314

Center for Telehealth

Deborah Padilla

Rehoboth McKinley
 Christian Health Care Services
 UNMH Audiology \$25,000
 Rehoboth McKinley
 Christian Health Care Services
 Professional Services \$25,000

Dental Medicine

Gary W. Cuttrell

New Mexico Higher Education
 Department
Train Dentists to Treat Peds \$750,000
 Office of Rural Health Policy
*Special Needs Dental Residency Training
 Program—Continuation* \$374,420

Charles Tatlock

New Mexico Department of Health
Basic Oral Health Services \$102,335

Dermatology

Aimee Smidt

American Medical Group, Inc.
Tele-Dermatology Services \$15,000

ECHO Institute

Sanjeev Arora

Bristol-Myers Squibb Foundation
Reducing Disparities in the Prevention
and Care of Cancer Through
the ECHO Model \$10,000,000

Merck Company Foundation
Southeast Asia Health System Transformation
Expansion Grant \$7,000,000

GE Foundation
Leveraging the ECHO Model to Improve
Quality in FQHCs and Transform
the US Health Care System \$5,000,000

Health Resources and Services
Administration
Expanding Substance Abuse Services
through the ECHO Model \$2,455,305

Defense Health Agency
Telementoring Services Defense
Health Agency \$763,565

HealthInsight New Mexico
ACA—Overcoming Harm ECHO
HealthInsight w/ BAA \$450,000

New Mexico Department of Health
Hepatitis and HIV Clinical
Consultant Project \$179,772

Seattle Indian Health Board
Project ECHO Supporting the Enhanced
Implementation of Health and
Wellness—Continuation \$150,000

The Nicholson Foundation
Technical Assistance for
Autism and HIV \$150,000

American Institutes for Research
AIR Medication-Assisted
Treatment \$146,118

Albuquerque Area Indian Health
Board, Inc.
Leveraging Project ECHO for a
Comprehensive Approach to Health
and Wellness in Indian Country—
Continuation \$94,500

American Academy of Pediatrics
Strategic Approaches to Improving
Access to Quality Health Care
for Children \$89,000

University of North Carolina Medical
School at Chapel Hill
UNC Medication—Assisted
Treatment \$69,449

The Nicholson Foundation
ECHO Hub Replication: Technical
Assistance Provided to CMSRU
and CUHI \$55,000

New Mexico Department of Health
US Border Health—ECHO MDR
TB Project \$55,000

Elizabeth Glaser Pediatric AIDS Foundation
ECHO in Cameroon and
Côte D'Ivoire \$55,000

Universidad de la Republica-Uruguay
ECHO Technical Assistance for Universidad
de la Republica—Uruguay \$51,000

University Research Co. LLC
Project ECHO Partnership with USAID
ASSIST for Hospital-Acquired Infections
and Zika \$44,401

American Academy of Pediatrics
ECHO Partnership to Improve
Zika Care \$40,000

University of Washington
Namibia Phase II Continuation
with I-TECH \$40,000

Columbia University
ECHO ICAP Launch in Kenya \$33,464

Elizabeth Glaser Pediatric AIDS
Foundation
EGPAF Côte d'Ivoire Replication \$25,715

St. James Hospital
ECHO Technical Assistance for St. James
Hospital, Ireland \$25,000

University of Washington
Namibia HIV ECHO Expansion—
Continuation \$20,000

American Medical Association
Honorarium for AMA ECHO Talk \$3,000

Emergency Medicine

Danielle Albright

New Mexico Crime Victims Reparation
Commission
Coordination of the Domestic Violence
Death Review Team \$75,000

New Mexico Crime Victims Reparation
Commission
Coordination of the Domestic Violence
Death Review Team \$75,000

Justin Baca

Sandia National Laboratories
On-Body Transdermal Microneedle-
Based Diagnostic Device to
Measure Biomarker Signatures
and Report on Human
Performance—Continuation \$219,800

Avisa Pharma Inc.
C-urea Breath Test for the Detection
of Urease-Producing Bacteria in
Patients Diagnosed with
Pneumonia \$117,323

Laura Banks

New Mexico Transportation Department
Pedestrian Safety Initiative \$270,000

Department of Health
Hospital and Health Systems
Preparedness \$107,610

Darren Braude

Department of the Air Force
UNM Educational Service Agreement—
Specific Supplement \$698,400

Department of the Air Force
UNM Educational Service Agreement—
Continuation \$352,080

Gypsum Medical Associates
of New Mexico, P.C.
Medical Director \$78,120

Bernalillo County Fire Department
Medical Director \$63,053

State of New Mexico
EMS services for TEMS \$54,476

Sandoval County
Medical Directorship \$54,000

City of Rio Rancho
Medical Director Services \$37,200

City of Rio Rancho
Medical Director Services \$35,000

Department of the Air Force
UNM Educational Service
Agreement \$34,128

Pueblo of Jemez
Medical Directorship \$18,333

County of Torrance
Medical Director Services \$12,000

County of Torrance
Medical Director Services \$12,000

Carlsbad Caverns National Park
Medical Directorship \$6,000

City of Rio Rancho
Professional Services \$5,000

National Park Service
Medical Directorship \$4,500

Town of Cochiti Lake <i>Medical Director Services</i>	\$3,450
National Park Service <i>Wilderness First Aid</i>	\$3,300
Department of the Air Force <i>Combo Refresher Course</i>	\$3,000
National Park Service <i>Wilderness First Aid Course</i>	\$2,750
Motion Picture Set Medics, LLC <i>EMS Consortium</i>	\$2,604
Pueblo of Ohkay Owingeh <i>Basic EMT Course</i>	\$1,142
Nitro Circus Live Touring USA, Inc. <i>Oversight of Medical Safety at Event</i>	\$1,085
Zuni Tribe <i>National Registry Exam</i>	\$150

Cameron Crandall

JDP Therapeutics <i>Evaluate the Non-Inferiority Comparing Cetirizine Injection 10mg to Diphenhydramine Injection 50mg for the Treatment of Acute Urticaria</i>	\$212,750
U.S. Department of Justice <i>US Attorney Expert Witness Contract</i>	\$16,941

Jon Kenneth Femling

Theravance, Inc. <i>Telavancin Versus Standard Intravenous Therapy in the Treatment of Subjects with Staphylococcus Aureus Bacteremia</i>	\$409,305
Sandia National Laboratories <i>Rim to Rim 2016</i>	\$55,004
PPD Development <i>Clinical Trial—Phase 3</i>	\$34,956
Olive View Medical Center-UCLA <i>15-16 Subcontract of CDC Award "Emergency Department Sentinel Network for the Surveillance of Emerging Infections"</i>	\$8,800

Andrew Harrell

National Park Service <i>Grand Canyon National Park—EMS Medical Services—Continuation</i>	\$24,000
U.S. Forest Service <i>Wilderness First Aid</i>	\$2,450

Steven McLaughlin

City of Albuquerque <i>Professional Services—Medical Directorship</i>	\$250,000
State of New Mexico <i>Medical Director</i>	\$55,000

Sandoval County Regional Emergency Communications Center <i>Medical Director Services</i>	\$27,186
Kindred Hospital <i>Medical Director Services</i>	\$25,000
Valencia Regional Emergency Communication Center <i>Professional Services</i>	\$9,000
Village of Tijeras <i>Emergency Medical Services</i>	\$3,600

Grace (Joo-Hee) Park

The Mind Research Network <i>The Impact of Diffuse Mild Brain Injury on Clinical Outcomes in Children</i>	\$39,838
The Mind Research Network <i>The Impact of Diffuse Mild Brain Injury on Clinical Outcomes in Children</i>	\$32,356

Robert Sapien

University of Arizona <i>EMSC: Pediatric Emergency Care Applied Research Network—Continuation</i>	\$216,037
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Brandon Warrick

U.S. Department of Justice <i>Litigative Consultant—United States v. David Richard Howe et al.</i>	\$25,855
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Chelsea White

Pueblo of Laguna Fire Protection Program <i>Medical Director for the Pueblo of Laguna Fire Protection Program w/ BAA</i>	\$80,000
Ramah Navajo School Board, Inc., dba Pine Hill Health Center <i>Medical Director Services (BAA)</i>	\$36,000
Pueblo of Acoma EMS <i>Acoma Pueblo EMS Medical Directorship</i>	\$36,000

Family & Community Medicine

Antoinette Benton

New Mexico Department of Health <i>Transdisciplinary Evaluation and Support Clinic—Continuation</i>	\$494,268
OptumHealth New Mexico <i>Pre-Administration Screening and Resident Review—Non-Specific Supplement</i>	\$127,000



Joy Crook

New Mexico Department of Health <i>NM DOH Statewide EMS Project</i>	\$50,000
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Rebecca Fastle

New Mexico Department of Health <i>New Mexico Child Fatality Review</i>	\$10,000
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State of New Mexico <i>Emergency Medical Services and Medical Directorship</i>	\$51,885
City of Albuquerque <i>Professional Services Agreement</i>	\$50,000
City of Rio Rancho <i>Medical Director Services</i>	\$37,200

Lisa Cacari-Stone
New Mexico Community Foundation
Intersectional Analysis \$27,500

Jennifer Hettema
HHS/Office of the Secretary
*Prevention of Teen Pregnancy Through
Screening and Brief Intervention
in Primary Care* \$1,000,000

Arthur Kaufman
University of Colorado
MSU—Southwest Health Extension
*Partnership to Enhance Research
Dissemination—Evidence
Now Southwest* \$1,000,000
New Mexico Department of Health
*New Mexico Immunization Coalition—
Continuation—For Period 1* \$372,837
Health Resources and Services
Administration
*New Mexico Community Health Workers
Paraprofessional Training—
Continuation* \$189,052

Sarah Lathrop
New Mexico Department of Health
*NM Emerging Infections
Program* \$460,876
New Mexico Department of Health
*NM Emerging Infections
Program* \$382,837

Lawrence Leeman
UNM Medical Group, Inc.
Coverage to FCM Physicians \$253,274
PP of the Rocky Mountains
Professional Services \$104,538
New Mexico Department of Health
AMCHP Birth Outcomes \$45,000
Anonymous Nonprofit Foundation
MSU—*Early Training at UNM—
Continuation—For Period 1* \$40,070
New Mexico Department of Health
*AMCHP Birth Outcomes—
Continuation* \$39,487

Orrin Myers
National Park Service
*Statistical Analyses of Restoration
Monitoring Programs in the Jemez Mountains
of Northern New Mexico* \$18,000
The George Washington University
*Translating Molecular Diagnostics
for Cervical Cancer Prevention
into Practice* \$17,127

Janet Page-Reeves
Patient-Centered Outcomes
Research Institute
*ACA-ECM-PCORI: Diabetes Cultural
Competence Study* \$2,276,443

Tassy Parker
Albuquerque Area Indian Health
Board, Inc.
Tribal Solutions—Continuation \$58,206

Washington State University
*Native-Controlling Hypertension
And Risks through Technology* \$54,182

Washington State University
*Native-Controlling Hypertension
And Risks through Technology—
Continuation* \$53,268

University of Colorado-Denver
*NIDDK-Funded Center for American
Indian and Alaska Native Diabetes
Translation Research* \$18,936

University of Colorado-Denver
*NIDDK-Funded Center for American
Indian and Alaska Native Diabetes
Translation Research* \$18,433

Jennifer Phillips
Bernalillo County Juvenile
Detention Center
Professional Services \$136,153

David Rakel
Bernalillo County Juvenile
Detention Center
Professional Service Agreement \$136,973

First Choice Community Healthcare
Professional Service Agreement \$30,160
Presbyterian Medical Services
Professional Service Agreement \$25,000

Robert Rhyné
New Mexico Department of Health
*Academic Detailing Project
FY17* \$100,000

Helene B Silverblatt
Health Resources and Services
Administration
*New Mexico Area Health
Education Centers* \$316,314
National AHEC Organization
*National Training Center HPV
State Entity* \$9,500

Andrew Sussman
Wayne State University
*P30 PRIME Net Center in Practice-Based
Research and Learning* \$18,670

Robert Williams
Health Resources and Services
Administration
*Transforming Primary Care in
Under-Served Communities* \$248,914
Virginia Commonwealth University
*Implementing Personal Health Records
to Promote Evidence-Based Cancer
Screening—Continuation* \$124,516

Internal Medicine

Allen Adolphe
AbbVie
*Clinical Trial Agreement Supplement
#3—Phase 3* \$20,800
Rana Al-Sadi
Crohn's & Colitis Foundation of America
*MMP-9 Modulates Intestinal Epithelial
Tight Junction Barrier and Intestinal
Inflammation (Year 3-FY 18)* \$90,000

Christos Argyropoulos
Arbor Research Collaborative for Health
*Chronic Kidney Disease Outcomes
and Practice Patterns Study* \$179,200
Quintiles Laboratories
*A Phase 3, Randomized, Single-Blind,
Efficacy and Safety Study of RDX227675
for the Treatment of Hyperkalemia
With an Open-Label Extension* \$2,500

Edgar Boedeker
U.S. Department of Veterans Affairs
IPA—Prashanth Setty \$74,352

Cristian Bologna
Givaudan Flavors Corporation
*Givaudan Research Agreement—
Year 9* \$200,000

Steven Bradfute
Defense Threat Reduction Agency
*Effects of Differential Glycosylation on
Filovirus Glycoprotein Immunogenicity—
Specific Supplement* \$280,269
Los Alamos National Laboratory
*Immunogenicity Testing of Flavivirus (Zika
Virus) DNA Vaccine Antigens* \$19,980

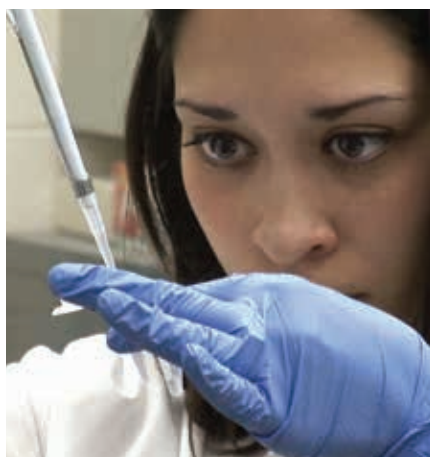
Mark Burge
VisionQuest Biomedical
*Quantitative Biomarkers of T1D Peripheral
Neuropathy Using Functional
Imaging* \$149,829

Marcos Burgos

New Mexico Department of Health
Tuberculosis Medical Care, Consultation
and Education Services \$232,100

Ravi Durvasula

National Institute for Occupational Safety
and Health
*An Environmentally Friendly Larvicide for
Mosquito Control* \$1,301,000
National Institute of Allergy and Infectious
Diseases
*The Paratransgenic Sand Fly: A Strategy to
Control Leishmaniasis* \$190,070

**Suzanne Emil**

Albuquerque Area Indian Health Service
Rheumatology IHS Specialty
Services \$45,120

Robert Fritch

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

Antonia Harford

Dialysis Clinic, Inc.
*MoCA—Cognitive Function in ESRD
Patients Undergoing Evaluation
for Renal Transplantation* \$81,772

Theresa Heynekamp

Cystic Fibrosis Foundation
Cystic Fibrosis Care Center
Program \$60,100
Vertex Pharmaceuticals Incorporated
Mountain West Cystic Fibrosis
Consortium \$10,000

Denece Kesler

Health Resources and Services
Administration
*Radiation Exposure Screening and
Education Program in New Mexico—
Continuation* \$230,935

Lovelace Respiratory Research Institute
*LRRI Occupational Medicine Consulting
Services* \$6,000

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

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

Christophe Lambert

Patient-Centered Outcomes
Research Institute
*ACA—Longitudinal Comparative
Effectiveness of Bipolar Disorder
Therapies* \$100,000

Warren Laskey

Duke University
*Care Optimization through Patient and
Hospital Engagement Clinical Trial
for Heart Failure* \$68,800

Rutgers, The State University
of New Jersey
*Myocardial Ischemia and
Transfusion—CCC* \$42,000
New Mexico Department of Health
*Stroke and STEMI Center
Development* \$8,335

Samuel Lee

inVentiv Clinical, LLC
*Systemic Antifungal Therapy in Adult
Subjects with Invasive Mucormycosis or
Invasive Aspergillosis Caused by
Non-fumigatus Species* \$111,808
inVentiv Clinical, LLC
*Observational Disease Registry of Patients
Treated with Systemic Mold-Active
Triazoles* \$21,380

Thomas Ma

National Institute of Diabetes and
Digestive and Kidney Diseases
*Regulation of Intestinal Paracellular
Permeability—Continuation* \$418,602
National Institutes of Health
*Regulation of Intestinal Paracellular
Permeability* \$417,336

U.S. Department of Veterans Affairs
IPA—Karol Dokladny \$146,055
Veterans Affairs Medical Center
*IPA- Manmeet Rawat—
Continuation* \$100,775

Lana Melendres-Groves

Reata Pharmaceuticals Inc.
Clinical Trial—LARIAT \$48,000
United Therapeutics Corporation
*Phase 1 Clinical Trial: Inhaled Treprostinil
in Subjects with Pulmonary
Hypertension* \$38,738
United Therapeutics Corporation
*Phase 1 Clinical Trial: Inhaled Treprostinil
in Subjects with Pulmonary
Hypertension (2)* \$38,738

Cristina Murray-Krezan

University of Nevada, Las Vegas
*Assessing the Effect of Informative
Drop-Out in Longitudinal Research:
The MMHS Study of
Mammographic Density* \$70,832

Prashant Nighot

National Institutes of Health
*Role of the Chloride Channel CIC-2
in Intestinal Tight Junction Barrier
Recovery —Continuation* \$147,916

Yue-Harn Ng

Dialysis Clinic, Inc.
*Outcomes of Discordant Kidneys
in the KDPI Era* \$33,238

Tudor I. Oprea

National Cancer Institute
*Illuminating the Druggable Genome
Knowledge Management
Center* \$1,313,408
Rosalind Franklin University of Medicine
and Science
*Ligand specificity in Human Glucose
Transporters* \$70,503

Kimberly Page

National Institute on Drug Abuse
*Acute Hepatitis C Infection
in Young Injectors* \$1,373,874
Montefiore Medical Center
*ACA—Patient-Centered Models
of HCV Care for People who Inject Drugs—
Continuation* \$443,295

Kimberly Page, continued

Centers for Disease Control and Prevention
Epidemiology, Prevention and Treatment of HCV in Young Adult Persons who Inject Drugs in Non-Urban New Mexico (Hepatitis-TIPS) \$299,996

National Institute on Drug Abuse
Acute Hepatitis C Infection in Young Injectors—Specific Supplement \$99,999

University of California, San Francisco
CIPi: Cambodia Integrated HIV and Drug Prevention Implementation Program—Continuation \$40,205

Douglas Perkins

Los Alamos National Laboratory
Characterize the Emergence of Antibiotic Resistance and Virulence in the Immunocompromised Population —Continuation \$325,000

John E. Fogarty International Center for Advanced Study in the Health Sciences
Training and Research in Severe Malarial Anemia—Continuation \$242,882

Arti Prasad

St. Catherine Healthcare and Rehabilitation Center
Medical Director Services \$39,360

The Bell Group, Inc.
Professional Services: UNMMG Center for Life \$25,000

The Weil Foundation
2017 Simply Spicy Conference \$10,000

Fares Qeadan

Albuquerque Area Indian Health Board, Inc.
IndiaLarge Tribal Health Data in the Southwest Region: Transformation, Management and Analyses \$76,766

Hengameh Raissy

University of Utah
Multicenter Validation of Predictive Sputum Biomarkers in CF—Continuation \$4,200

David Schade

The George Washington University
GRADE: Glycemia Reduction Approaches for Diabetes: A Comparative Effectiveness Study (Year 5) \$362,257

The George Washington University
GRADE: Glycemia Reduction Approaches for Diabetes: A Comparative Effectiveness Study (Supplement) \$362,257

National Institute of Diabetes and Digestive and Kidney Diseases
Diabetes Prevention Program—Phase 3—Continuation \$243,852

Case Western Reserve University
Epidemiology of Diabetes Intervention and Complications—Continuation \$127,533

The George Washington University
GRADE Sub-Study: Emotional Distress in a Comparative Effectiveness Trial of Diabetes Treatments \$56,406

National Institute of Diabetes and Digestive and Kidney Diseases
Diabetes Prevention Program—Phase 3—Specific Supplement \$43,935

Case Western Reserve University
Long-Term Effects of Glycemia on the Complications of Diabetes—Skeletal Health Study \$27,642



Case Western Reserve University
EDIC: Long-Term Effects of Glycemia on the Complications of Diabetes—Hypoglycemia/Arrhythmia Study \$18,830

University of South Florida
Type I Diabetes TrialNet \$950

Akshay Sood

Miners Colfax Medical Center
Medical Consultation and Care \$140,914

Miners Colfax Medical Center
Development of Comparative Effectiveness Research for Screening Chronic Diseases in Miners \$26,400

Elaine Thomas

New Mexico Department of Health
Sexually Transmitted Disease Clinical Services w/BAA \$115,312

Mark Unruh

Anonymous Nonprofit Foundation
Medical Directorship and QA \$1,181,620

Albuquerque Area Indian Health Service
IHS Specialty Services \$190,259

BioPorto Diagnostics
The NGAL Test As An Aid in the Risk Assessment for AKI stage II and III in an Intensive Care Population \$110,360

Lovelace Institutes
Occupational and Environmental Health Clinical Services \$75,000

University of Washington
ACA-Treatment Options for Depression in Patients Undergoing Hemodialysis—Continuation \$72,651

Albuquerque Area Indian Health Service
Nephrology IHS Specialty Services \$56,186

Anonymous Nonprofit Foundation
Medical Directorship and QA—Travel \$54,240

QTC Medical Group
Second Medical Opinion Evaluations \$25,000

University Of Pennsylvania
Data Coordinating Center for Hemodialysis Pilot Studies Consortium (ACTION) \$8,016

Lovelace Institutes
Occupational Medicine Consulting Services \$6,000

Honeywell Corporation
Honeywell Aerospace of Albuquerque Professional Occupations Medical Services \$2,500

Carolyn Voss

Kindred Hospital
Infection Control Medical Director \$25,000

Heather Ward

National Institutes of Health
Targeting Fibrosis in Polycystic Kidney Disease \$112,859

National Institutes of Health
Targeting Fibrosis in Polycystic Kidney Disease—Continuation \$112,733

Dialysis Clinic, Inc.
Repurposing Relaxin to Inhibit Cystogenesis and Progression of Polycystic Kidney Disease—Continuation \$60,000

Steven (Bruce) Williams

Health Resources and Services
Administration
*Coordinated Services and Access to
Research for Woman, Infants, Children
and Youth Part D* \$472,628

Health Resources and Services
Administration
*Comprehensive HIV Early Intervention
Services (Ryan White Part C)—
Specific Supplement* \$454,920

Health Resources and Services
Administration
*Comprehensive HIV Early Intervention
Services (Ryan White Part C)—
Continuation* \$366,433

New Mexico Department of Health
*ACA-Insurance Assistance Program for
Persons Living with HIV—
Continuation* \$158,250

Bronwyn Wilson

American Academy on
Communication Healthcare
Faculty Facilitator Agreement \$28,600

Molecular Genetics & Microbiology**Ellen Beswick**

National Institutes of Health
*G-CSF Inhibition as a Colorectal
Cancer Therapy* \$346,556

National Institutes of Health
*G-CSF Inhibition as a Colorectal Cancer
Therapy—Continuation* \$346,556

University of Texas Medical Branch
*Alteration in CD90+ Stomatal Cells in
TH1/TH17 Regulation in Crohn's
Disease—Continuation* \$27,000

Kiran Bhaskar

National Institute of Neurological
Disorders and Stroke
*The Role of Inflammasome Signaling in
Tauopathies—Continuation* \$298,265

National Institute of Neurological
Disorders and Stroke
*Light-Based Regulation of Autophagy
Processing to Target Pathological Forms
of Tau—Continuation* \$102,263

National Institute of Neurological
Disorders and Stroke
*The Role of Inflammasome Signaling
in Tauopathies—Non-Specific
Supplement* \$33,141

Judy Cannon

Northern New Mexico Community
College
*Statistical Analysis of Differential
Expression of Gene Sets* \$6,040
U.S. Department of Veterans Affairs
*Immune-Mediated Pathways in Pathogenesis
of Abdominal Aortic Aneurysm* \$2,500

Bryce Chackerian

National Institutes of Health
*A Nanoparticle-Based Vaccine
Targeting PCSK9* \$333,545

Massachusetts General Hospital
*CDRH3-Independent B Cell Stimulation
to Selectively Expand VRC01 Lineages
from a Fully Humanized Immunoglobulin
Repertoire* \$198,497

NovaSterilis
*Understanding and Optimization of Virus
Inactivation by scCO₂/PAA Sterilization
Process* \$93,319

MedImmune, Inc.
*Sponsored Research Agreement
with MedImmune* \$47,500

Vojo Deretic

National Institute of Allergy
and Infectious Diseases
*Autophagy Against Tuberculosis
and HIV* \$658,214

National Institutes of Health
*Autophagy-Based HDT for
Tuberculosis* \$561,389

National Institutes of Health
*Pattern Recognition Receptors and
Autophagy in Mtb Control in AIDS—
Continuation* \$399,999

Michelle Ozbun

Janssen Pharmaceutical
*Infectious Transmission of Human
Papillomavirus from Patient
Samples* \$478,016

National Cancer Institute
*Mechanisms of Infection by Oncogenic
HPVs* \$345,944

University of Arizona
*Genetic Alteration of PIK3CA Identify
Actionable Targets for HPV-Associated
Head* \$66,667

University of Arizona
*Genetic Alteration of PIK3CA Identify
Actionable Targets for HPV-Associated
Head* \$12,028

Texas Biomedical Research Institute
RhPV-SIV Vaccine \$6,080

David S Peabody

AgilVax, Inc.
*VLP Screen and Immunogenicity
Studies* \$276,975

Sandia National Laboratories
*Peptide-VLP Libraries for Epitope
Mapping—Continuation* \$60,000

Xuexian Yang

National Institute of Allergy and Infectious
Diseases
*Control of Allergic Airway
Inflammation* \$365,875
American Association of Immunologists
*CIS in Stabilization of Regulatory
T Cells* \$23,376

Neurology**Christopher Calder**

The Mind Research Network MRN
*Administrative Operations—
Continuation—For Period 1* \$46,281

Corey Ford

Novartis Pharmaceuticals Corporation
Novartis COMB157G2302 \$475,692

Alkermes, Inc.
Alkermes ALK8700-A301 \$315,728

Parexel International
*MedDay Pharm study: Effect of
MD1003 in Progressive MS* \$164,988

Parexel International
*MedDay Pharm study: Effect of
MD1003 in Progressive MS* \$132,923

Biogen Idec
*Observation Study Agreement: Phase 4—
Supplement and Continuation* \$87,115

PPD Development
*Clinical Trial Agreement—Phase 3
supplement* \$74,765

Sandia National Laboratories
*Research Traumatic Brain
Injuries* \$50,000

Teva Pharmaceutical Industries, LTD
*Clinical Trial—Phase 4—
Supplement (Amendment #13)* \$33,865

Rio Grande Neurosciences, Inc.
PEMF (TheraCap) Study \$23,289

Sandia National Laboratories
*Research Traumatic Brain
Injuries* \$14,794

Alkermes, Inc.
Alkermes ALK8700-A301 \$8,800

Corey Ford, continued

University of California, San Francisco
Treatment of Multiple Sclerosis with Siponimod \$5,845

Genzyme Corporation
Clinical Trial \$5,332

Novartis Pharmaceuticals Corporation
Clinical Trial Phase 3/Amend 2 \$5,025

Genentech, Inc.
Clinical Trial Phase 3 \$2,788

Genentech, Inc.
Clinical Trial—Phase 3 \$1,169

Merck & Company, Inc.
26593 Onward—Retrieval of Study Information \$615

Jim Liu

National Center for Research Resources
Integrative Program in CNS Pathophysiology Research—Phase III—Specific Supplement \$425,724

Leslie Morrison

University of California, San Francisco
The Brain Vascular Malformation Consortium: Predictors of Clinical Course \$157,862

Surojit Paul

National Institute of Neurological Disorders and Stroke
Role of Brain Specific Tyrosine Phosphatase STEP in Neuroprotection and Death \$297,281

John Phillips

The Mind Research Network
MRN Medical Director \$100,745

Ranjana Poddar

National Institutes of Health
Hyperhomocysteinemia and Ischemic Stroke YR04 \$297,281

Stefan Posse

National Institute of Biomedical Imaging and Bioengineering
High-Frequency Resting State Connectivity fMRI \$241,331

National Institutes of Health
High-Speed fMRI Resting State Connectivity—Continuation \$195,000

Jennifer Ann Vickers

New Mexico Department of Health
CMS Outreach Clinics—Neurology \$474,750

Yi Yang

electroCore, LLC
Neuroprotective Role of Non-Invasive Vagus Nerve Stimulation on Stroke-Induced Blood-Barrier Damage in Rat Model \$25,000

Sarah Youssof

Muscular Dystrophy Association
UNM MDA and MDA/ALS Care Centers w/ BAA \$60,000

Neurosciences**Andrea Allan**

National Institute of Environmental Health Sciences
Prenatal Arsenic Exposure Alters Transcriptional, Post-Transcriptional and Post-Translational . . . \$334,792

Jonathan Brigman

University of California, San Diego
Neurophysiological Biomarkers of Behavioral Dimensions—Continuation \$137,906

Nikolaos Mellios

Brain & Behavior Research Foundation
Systematic Profiling and Functional Assessment of Circular RNAs in Psychiatric Disorders \$70,000

Nora Perrone-Bizzozero

The Mind Research Network
Mining the Genome-Wide Scan: Genetic Profiles of Structural Loss in Schizophrenia \$37,360

National Institute on Drug Abuse
Opposing Roles of miR-495 and HuD in Addiction-Related Plasticity and Behavior—Continuation \$33,074

Daniel Savage

National Institute on Alcohol Abuse and Alcoholism
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions \$1,625,290

National Institute on Alcohol Abuse and Alcoholism
Admin Supplement to Promote Diversity Health-Related Research-Gustus-P50AA022534—Specific Supplement—For Period 1 \$61,959

National Institute on Alcohol Abuse and Alcoholism
Admin Supplement to Promote Diversity Health-Related Research-Gustus-P50AA022534—Non-Specific Supplement—For Period 2 \$61,959

Bill Shuttleworth

National Institute of General Medical Sciences
UNM CoBRE P20 CBRR—Continuation—Period 1 \$2,184,151

National Institute of General Medical Sciences
UNM Center for Brain Recovery & Repair—Admin Supp \$415,528

Carlos Valenzuela

National Institute on Alcohol Abuse and Alcoholism
Alcohol and Developing Neuronal Circuits (MERIT AWARD) \$378,750

National Institute on Alcohol Abuse and Alcoholism
Alcohol Research Training in Neurosciences—Continuation—For Period 1 \$148,257

Baylor College of Medicine
Targets of Low-Dose Alcohol During Cerebellar-Driven Behavior in Mice \$8,637

Jason Weick

Clemson University
R11 Track-2 FEC: The Creation of Next-Generation Tools for Neuroscience \$259,213

National Institute of Neurological Disorders and Stroke
Light-Based Regulation of Autophagy Processing to Target Pathological Forms of Tau—Continuation \$102,262

Neurosurgery**Denis Bragin**

National Institute of Neurological Disorders and Stroke
Stroke Treatment by Modulation of Hemodynamics with Soluble Drag-Reducing Molecules—Continuation \$189,381

Andrew Carlson

Edge Therapeutics
Clinical Trial Agreement—Phase 3—Specific Supplement \$152,550

Johns Hopkins University
MISTIE III A Phase 3 Randomized, Open Label, 500-Subject Clinical Trial of Minimally Invasive Surgery Plus rt-PA in the Treatment of Intracerebral Hemorrhage \$129,163

CerebroScope
Scalp SD detection \$8,560

Muhammad Chohan

NeurInsight, LLC
Clinical Real-Time Resting State fMRI 1R41 NS090691-0 \$87,259

NX Development Corp
5-Aminolevulinic Acid (5-ALA) to Enhance Visualization of Malignant Tumor in Patients with Newly Diagnosed or Recurrent Malignant Gliomas \$30,500

Jeff Hill

Cylenta Pharmaceuticals
Evaluation of Therapeutic Peptides in a Rat Multiple Sclerosis Model \$43,000

Tamara Roitbak

National Institute of Neurological Disorders and Stroke
In vivo Inhibition of Specific microRNAs \$331,406

Howard Yonas

Centers for Medicare & Medicaid Services
ACA: Access to Critical Cerebral Emergency Support Services HCIA2 \$4,990,973
 Brain Temp, Inc
Non-Invasive, Transcranial Brain Radiometric Thermometry Validation \$62,232

Obstetrics & Gynecology**Gena Dunivan**

Biomedical Research Institute of New Mexico
Chronic Abdominopelvic Pain in the Female Veteran Population: A Comprehensive Investigation—Continuation \$64,764
 Pelvalon
Clinical Trial Agreement \$17,280
 Pelvalon
Clinical Trial Phase 4 \$1,000

Eve Espey

Anonymous Nonprofit Foundation
Fellowship in Family Planning \$351,918
 First Choice Community Healthcare
Professional Service \$82,530
 New Mexico Department of Health
High-Risk Prenatal Care \$82,460
 Albuquerque Area Indian Health Service
IHS Specialty Services \$33,457
 Albuquerque Area Indian Health Service
IHS Specialty Services \$17,420
 New Mexico Department of Health
Certified Nurse Midwife Contractor Project \$12,742

Lisa Hoffer

Society of Family Planning
Determinants of Success: Characterizing the Facilitators of Mainstream, Integrated Abortion Provision \$63,598

Yuko Komesu

Research Triangle Institute
Human Microbiome Study—ESTEEM—Continuation \$29,543



Eunice Kennedy Shriver National Institute of Child Health and Human Development
Innovations in Treatments for Pelvic Floor Disorders: A Southwestern PFDN Site \$18,180

Rebecca Rogers

Biomedical Research Institute of New Mexico
Chronic Abdominopelvic Pain in the Female Veteran Population: A Comprehensive Investigation \$9,655

Rameet Singh

New Mexico Department of Health
Tubal Ligation Sterilization Surgical Procedures \$67,520

Office of the Medical Investigator**Lauren Dvorscak**

Office of the Federal Public Defender
Contract Service for Lauren Dvorscak \$1,605

Hannah Kastenbaum

New Mexico Public Safety Department
2016 Paul Coverdell Base Tax \$14,920
 New Mexico Department of Health
New Mexico Violent Death Reporting System \$5,275

Sarah Lathrop

New Mexico Department of Health
Opioid Mortality Surveillance \$132,516

Kurt Nolte

University of Texas San Antonio National Trauma Institute
Multiinstitutional Multidisciplinary Injury Mortality investigation in the Civilian Pre-Hospital Environment \$499,378
 New Mexico Department of Health
Vital Records Vital Statistics Cooperative Program \$109,668
 U.S. Department of Veterans Affairs
VA Autopsy Services \$28,300
 U.S. Department of Veterans Affairs
Provide Radiological and Nuclear Medicine Diagnostics and Therapy Services for NMVAHSC \$28,300
 Lovelace Health System
Professional Services—OMI \$25,000
 U.S. Attorney's Office
Witness Agreements \$15,000

Ian Paul

New Mexico Public Safety Department
2016 Paul Coverdell Competitive ECHO \$5,769

Lori Proe

New Mexico Crime Victims Reparation Commission
Grief Intervention for Homicide Survivors \$67,069
 New Mexico Department of Health
New Mexico Sudden Unexpected Infant Death Registry—Continuation—For Period 1—Continuation—For Period 2 \$23,210

Veena Singh

New Mexico Department of Health
Public Health Preparedness and Response for BioTerrorism—Continuation—For Period 1 \$40,000

Orthopaedics**Marybeth Barkocy**

University of Oklahoma
Special Education Research and Innovation to Improve Services and Results \$4,250

Dustin Briggs

Orthopaedic Research & Education Foundation
Chondrocyte Viability After Exposure to Antiseptic Solutions and TXA \$4,866

Thomas Decoster
U.S. Department of Justice
Expert Witness—Decoster \$21,260

Christina Salas
Aerican Foundation for Surgery
of the Hand
*Hybrid 3D Bioprinting/
Electrospinning* \$20,000

Robert Schenck
ExplorAbilities, Inc.
*Professional Services
(Orthopaedics)* \$60,450

Selina Silva
Ann & Robert H. Lurie Children's
Hospital of Chicago
*Evaluation of the Necessity of Operative
Irrigation and Debridement:
Pediatric Randomized Trial of
Type One Fractures* \$1,400

Gehron Treme
DePuy Orthopaedics, Inc.
*DePuy Synthes Orthopaedic Tuition
Travel Grant* \$10,000

Daniel Wascher
Arthrex, Inc.
*Arthrex Sports Medicine
Fellowship* \$20,000

Smith & Nephew, Inc.
*Orthopaedic Sports Medicine
Fellowship Grant* \$12,000

Smith & Nephew, Inc.
*Smith & Nephew Educational
Grant* \$12,000

Stryker Orthopaedics
Stryker Travel Grant \$1,852

Pathology

Margaret Alba
American Society for Clinical Pathology
*Training Medical Laboratory Students
in a Rural Setting* \$2,500

Therese Bocklage
Lovelace Respiratory Research Institute
*Improving Anticancer Chemotherapy
by Sensitizing Necroptosis* \$16,524

Alexandre Chigaev
Gilead Sciences
Speaker Agreement \$1,000

Kendall Crookston
Blood Systems Foundation
Transfusion Medicine Fellowship \$95,007

Douglas Clark
UNM Hospital
Professional Services \$550,285

United Blood Services
Medical Director Services \$128,160

UNM Medical Group, Inc.
Professional Services \$109,423

Garcia Laboratory
Medical Director Services \$20,259

Karissa Culbreath
TriCore Reference Laboratories
PSA Tricore/ThermoFisher \$37,983

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

Tracy George
Hematogenix
PSA Hematogenix \$36,000

TriCore Reference Laboratories
PSA TriCore/Roche Diagnostics \$3,600

Jennifer Gillette
National Institutes of Health
*Functional Role of Tetraspanin CD82 in
Hematopoietic Stem Cell Interaction—
Continuation* \$378,750

National Institutes of Health
*Spatiotemporal Analysis of CD82—
Mediated Integrin Adhesion—
Continuation* \$31,379

Diane Lidke
Carnegie Mellon University
*Fluorgen-Activating Peptide-Based
FRET to Quantify FceRi Activation
Mechanisms* \$110,017

Carnegie Mellon University
*Fluorgen-Activating Peptide-Based
FET to Quantify FceRi Activation
Mechanisms—Continuation* \$99,069

Carnegie Mellon University
*Single-Molecule FRET Imaging of
FceRi Interactions—* \$160

Dennis McCance
BioMarker Strategies, LLC
SA BioMarker Strategies \$382

Aaron Neumann
National Institutes of Health
*Nano and Microscale Molecular Machines
for Innate Immune Sensing of Candida—
Continuation* \$361,676

Aaron Pritchard
TriCore Reference Laboratories
PSA TriCore/Instrumentation Labs \$1,125

Larry Sklar
National Cancer Institute
*Illuminating the Druggable
Genome Knowledge Management
Center* \$321,592

Gilead Sciences
Gilead Sciences Inc.
Speaker Agreement \$2,000

Mohammad Vasef
TriCore Reference Laboratories
PSA Tricore/ThermoFisher \$10,300

Angela Wandinger-Ness
National Institute of General Medical
Sciences
*Academic Science Education
and Research Training* \$873,496

National Institutes of Health
*Ketorolac and Related NSAIDs
for Targeting Rho-family GTPases
in Ovarian Cancer* \$303,000

Boston College
IRACDA Plus—Continuation \$250,000

National Science Foundation
*G-Trap: A Multiplex GTPase
Activity Assay Kit* \$50,000

American Chemical Society
*Increasing the Immunogenicity of VLPs
Through Chemical Conjugation of
Immunogenic DNA Strands* \$2,500

Children's Hospital of LA
Kids Seek Cure For Kids \$540

Cosette Wheeler
National Institute of Allergy
an Infectious Diseases
*Epidemiology and Prevention Interdisciplinary
Center for Sexually Transmitted
Infections* \$2,565,880

Bridget Wilson
National Institutes of Health
*Validation of the Pre-BCR Signaling
Complex* \$30,343

Stephen Young
DNA Electronics
*Specimen Acquisition Study to Evaluate
the NanoMR Pathogen Detection
System* \$115,000

Qian-Yun Zhang
TriCore Reference Laboratories
PSA TriCore/Sysmex \$4,900

Pediatrics

Shirley Abraham

Oregon Health & Science University
Regional Hemophilia Network—
Mountain States \$34,250

University of Colorado
Regional Hemophilia Network—
Mountain States \$32,021

American Thrombosis and
Hemostatis Network
ATHN Data Quality Counts \$15,500

American Thrombosis and
Hemostatis Network
My Life, Our Future \$5,350

Tanya Baker-McCue

New Mexico Department of Health
Mi Via Waiver Provider
Program \$2,470,058

New Mexico Division of
Vocational Rehabilitation
Project Search \$425,000

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

New Mexico Developmental Disabilities
Planning Council
Information Network \$160,000

New Mexico Developmental Disabilities
Planning Council
School-to-Work Transition
Alliance \$15,000

Kirsten Bennett

Health Resources and Services
Administration
Tlehealth Network Grant \$299,999

New Mexico Department of Health
Envision New Mexico—Care Coordination
and the Patient-Centered Medical
Home \$150,000

Sophie Bertrand

New Mexico Children, Youth and Families
Department
ACA—Home Visiting Training—Specific
Supplement—HVT Level 2 \$729,500

Koh Boayue

St. Baldrick's Foundation
St. Baldrick's Infrastructure Development
Grant—Continuation \$60,000

Children's Hospital of Philadelphia
Clinical Trial Study: Phase 2 \$15,500

Children's Hospital of Philadelphia
Clinical Trial \$1,500

Courtney Burnette

University of Missouri—Columbia
ECHO Autism—STAT January Training
Session \$2,500



Laura Caffey

New Mexico Department of Health
Summer Asthma Institute Project \$4,774

Anthony Cahill

Maternal and Child Health Bureau
New Mexico Perinatal and Infant Oral
Health Quality Improvement Project—
Continuation \$249,967

New Mexico Human Services
Department
Increasing the Quality of Life of New
Mexicans with Brain Injuries and Caregivers
Through Effective Support Services—
Specific Supplement \$63,606

New Mexico Governor's Commission
on Disability
Support for the Southwest Disability
Conference—Continuation—
For Period 1 \$20,000

New Mexico Developmental Disabilities
Planning Council
Stipends for Southwest Conference
on Disability \$10,000

Loretta Cordova de Ortega

New Mexico Department of Health
Children's Medical Services Outreach Clinics
Project \$1,224,300

New Mexico Department of Health
Professional Services \$150,000

San Juan Regional Medical Center
Echocardiograms \$25,000

San Juan Regional Medical Center
Echocardiograms \$25,000

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

Presbyterian Healthcare Services
Pediatric Hematology Oncology
Review \$25,000

Taos Clinic for Children and Youth
Professional Services via
Telemedicine \$10,000

Theresa Cruz

New Mexico Human Services
Department
SNAP- ED Evaluation \$175,763

Presbyterian Healthcare Services
REACH Evaluation \$98,102

Thornburg Foundation
Home Visiting: Discovering What
Works for Increasing Referrals \$60,000

New Mexico Department of Health
PRC SVP Technical Assistance
Project \$48,000

New Mexico Department of Health
PRC SVP Technical Assistance Project—
Specific Supplement \$20,500

New Mexico Department of Health
Safe Sleeping \$10,000

Presbyterian Healthcare Services
Mobile Food Market \$10,000

Lea Davies

Cystic Fibrosis Foundation
Cystic Fibrosis Center of New Mexico—
Cystic Fibrosis Registry—BAA \$49,000

Sally Davis

Centers for Disease Control and
Prevention
Village Interventions and Venues
for Activity II (VIVA II) \$386,101

Centers for Disease Control and
Prevention
MSU-PRC CORE \$347,899

Centers for Disease Control and
Prevention
MSU-NOPREN
Early Childcare Settings Serving Southwest
American Indians and Hispanic Populations
SIP 14-027—Continuation—For Period 1
\$80,000

New Mexico Department of Health
Implementing Evidence-Based
Recommendations that Promote
Healthy Activities
\$15,000

Tara Lynn DuPont

New Mexico Department of Health
Developmental Care Continuity—
Fee-for-Service \$118,000

Tara Lynn DuPont, continued

New Mexico Department of Health
Developmental Care Continuity
Program—Cost \$70,640

Glenda Fallas

New Mexico Human Services
Department
Social Marketing \$332,342

Randy Heidenreich

New Mexico Department of Health
CMS Newborn Screening
Program \$349,416

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

Sandra Heimerl

Maternal and Child Health Bureau
New Mexico LEND Program \$620,544

Maternal and Child Health Bureau
New Mexico LEND: Leadership Education
in Neurodevelopmental
Disabilities \$616,392

Administration for Community Living
New Mexico Diversity
Fellowship \$40,000

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

Patricia Keane

New Mexico Human Services
Department
CHILE Plus \$352,893

Alberta Kong

Fluor Federal Solutions LLC
Fluor Federal Solutions Inc \$38,688

Jean Lowe

University of California, San Francisco
High-Dose Erythropoietin for Asphyxia
and Encephalopathy CCC Project \$1,888

Peggy MacLean

New Mexico Children, Youth and Families
Department
Level 2 NICU \$1,200,000

Jane McGrath

New Mexico Human Services
Department
Envision NM: The Initiative for Child
Healthcare Quality—
Continuation \$4,400,000

New Mexico Human Services
Department
Envision NM: The Initiative for Child
Healthcare Quality \$1,100,000

Alliance for Early Success
Early Success-NM \$100,000

New Mexico Department of Health
Healthy Hospitals Initiative \$99,357

New Mexico Department of Health
Envision NM—Quality
Improvement Project \$60,550



New Mexico Department of Health
Envision NM—The Newborn
Hearing Screening Program Quality
Improvement \$60,000

New Mexico Department of Health
Focus Early Intervention—Developmental
Screening Initiative \$30,000

Apex Education
STD Screening and Assessment Tools for an
Adolescent Population (Year 3) \$15,000

New Mexico Department of Health
Envision SBHC Program Project \$12,000

Shiraz Mishra

National Institutes of Health
Enhancing Prevention Pathways Toward Tribal
Colorectal Health \$502,501

National Institutes of Health
Enhancing Prevention Pathways Toward Tribal
Colorectal Health—Non-specific
Supplement \$55,834

Marcia Moriarta

New Mexico Department of Health
Autism Programs \$2,929,040

New Mexico Human Services Department
Improving Quality (75/25 & 50/50 Medicaid

Match) Supporting Child Development
Through Evidence-Based
Practices (FY17) \$2,000,000

New Mexico Department of Health
ECEP SGF/ECEP Part B/ECEP
PartC \$1,239,750

New Mexico Department of Health
DOH RTT ELC \$784,920

New Mexico Department of Health
Administrative Support—Intensity Scale
in New Mexico \$755,969

Navajo Nation
Growing in Beauty \$586,537

Navajo Nation
Growing in Beauty Program Therapy
Services—Continuation—
For Period 1 \$578,854

New Mexico Department of Health
DDSD Partners for
Employment \$546,236

New Mexico Department of Health
Early Childhood Network \$432,550

New Mexico Department of Health
Home and Community-Based Services
in New Mexico \$382,830

New Mexico Children, Youth and Families
Department
Early Childhood Infrastructure Development
(FY17 & FY18) \$365,000

New Mexico Children, Youth and Families
Department
Early Childhood Infrastructure Development
(FY17) \$215,471

New Mexico Children, Youth and Families
Department
Infant Mental Health Team—
Specific Supplement \$150,000

New Mexico Children, Youth and Families
Department
Infant Mental Health Team
(FY17) \$150,000

New Mexico Children, Youth and Families
Department
Early Childhood Infrastructure Development
(FY17)—Specific Supplement \$125,000

New Mexico Children, Youth and Families
Department
Early Childhood Infrastructure Development
(FY18)—Specific Supplement \$125,000

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

New Mexico Department of Health
Project SET DOH w/BAA \$106,191

New Mexico Children, Youth and Families Department
Infant Parent Psychotherapy (FY17)—BAA—Specific Supplement \$100,000

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

New Mexico Children, Youth and Families Department
Infant Parent Psychotherapy (FY17)—BAA \$93,000

New Mexico Department of Health
DDSD FIT \$86,500

New Mexico Department of Health
Medically Fragile Case Mgmt.—BAA \$76,000

New Mexico Department of Health
NM SAFE Program w/BAA \$73,437

Massachusetts General Hospital
ATN/AIRP Navajo Project (4 years) \$48,000

New Mexico Department of Health
Statewide Transition Coordination \$35,400

New Mexico Department of Health
Deaf Blind Match \$20,250

New Mexico Children, Youth and Families Department
Infant Parent Psychotherapy (FY17 Supplement)—BAA \$20,000

New Mexico Children, Youth and Families Department
ACA—Nurse Family Partnership Program \$15,000

New Mexico Children, Youth and Families Department
Infant Mental Health Community of Practice \$15,000

University of Missouri—Columbia
ECHO Autism—STAT October Training Session \$5,625

Robin Ohls

National Heart, Lung, and Blood Institute
DARBE \$356,966

University of Washington
Preterm Epo Neuroprotection Trial \$40,332

University of Washington
Preterm Epo Neuroprotection Trial Capitation \$34,227

University of Washington
Preterm Epo Neuroprotection Trial Capitation \$22,452

University of Washington
Preterm Erythropoietin Neuroprotection Trial—Non-Specific Supplement \$1,800

Pat Osbourn

New Mexico Public Education Department
PED Pre-K Race to the Top Early Learning Challenge (FOCUS TQRIS) \$700,000

New Mexico Public Education Department
PED Contract \$580,000

New Mexico Public Education Department
PED Pre-K RTT ELC \$500,000

U.S. Department of Education
Project for New Mexico Children Who are Deaf-Blind \$100,912

New Mexico Developmental Disabilities Planning Council
Partners in Policymaking \$62,500

Rio Rancho Public Schools
Rio Rancho Consultations \$50,768

Roswell Independent Schools
Roswell Consultations \$23,068

New Mexico Public Education Department
PED Scope for Student \$19,919

Albuquerque Public Schools
APS Consultations \$15,675

Belen Consolidated Schools
Belen Consultations \$10,765

Silver Consolidated Schools
Silver Consolidated Schools Consultations \$4,976

Hobbs Municipal School District
Hobbs Consultations \$4,817

Lucille Papile

Stanford University
Webinar Implementation for the Science of Enhancing Resilience NICUs Study \$22,012

Stanford University
Webinar Implementation for the Science of Enhancing Resilience NICUs Study—Continuation \$22,012

Linda Penalzo

New Mexico Department of Health
Youth Risk & Resiliency Survey \$130,000

New Mexico Public Education Department
ESHE Evaluation \$106,024

New Mexico Public Education Department
ESHE Evaluation—Continuation \$66,632

New Mexico Department of Health
HEART \$25,000

Janet Poole

Patient-Centered Outcomes Research Institute
ACA—Taking Charge of Systemic Sclerosis: Improving Patient Outcomes Through Self-Assessment \$35,245

Mary Ramos

Pacific Institute for Research and Evaluation
Implementing School Nursing Strategies to Reduce LGBTI Adolescent Suicide—Continuation \$39,313

Pacific Institute for Research and Evaluation
Implementing School Nursing Strategies to Reduce LGBTI Adolescent Suicide \$38,641

Pacific Institute for Research and Evaluation
Implementing School Nursing Strategies to Reduce LGBTI Adolescent Suicide—Specific Supplement \$5,040

Carla Slezak

UNM Medical Group, Inc.
Ben Archer Health Care \$550

Leslie Strickler

New Mexico Department of Health
Para Los Niños \$352,620

New Mexico Crime Victims Reparation Commission
Para Los Niños Crisis Intervention Services—Continuation \$42,751

New Mexico Crime Victims Reparation Commission
Adolescent Continuity Clinic for Education on Self Safety—Continuation \$29,313

New Mexico Crime Victims Reparation Commission
Adolescent Continuity Clinic for Education on Self Safety \$10,920

U.S. Department of Justice
Expert Witness Contract with the Department of Justice \$9,104

Jennifer Ann Vickers

New Mexico Department of Health
Continuum Outside Review Project \$1,401,100

Jennifer Ann Vickers, continued

New Mexico Department of Health
Continuum of Care Project \$876,447

New Mexico Department of Health
Continuum of Care Mortality Review
Project—Specific Supplement \$55,000

New Mexico Department of Health
Continuum of Care Mortality Review
Project \$49,585

Kristi Watterberg

Eunice Kennedy Shriver National
Institute of Child Health and Human
Development
NICHD Cooperative Multicenter Neonatal
Network—Continuation \$253,444

Eunice Kennedy Shriver National
Institute of Child Health and Human
Development
NICHD Cooperative Multicenter Neonatal
Network—Specific Supplement \$28,160

Stuart Winter

New Mexico Department of Health
Camp Enchantment 2017-DOH \$18,990

Craig Wong

Covance, Inc.
Clinical Trial \$117,207

The Children's Mercy Hospital
Clinical Trial Phase 4-CKiD Study—
Continuation \$19,214

The Children's Mercy Hospital
CKiD Steering Committee—
Continuation \$17,517

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

Nationwide Children's Hospital
Cure Glomerulonephropathy \$9,704

Psychiatry & Behavioral Sciences**Christopher Abbott**

National Institutes of Health
ECT Current Amplitude and Medial Temporal
Lobe Engagement \$522,336

The Mind Research Network
Project 5-Abbott-Multimodal Imaging of
Neuropsychiatric Disorders: Mechanisms
and Biomarkers (COBRE II) \$219,196

Deborah Altschul

Mescalero Apache Business
Enterprise Board
Mescalero SOC Expansion \$646,484

San Felipe Pueblo
San Felipe Tribal Katishtya Infants
Valued Always (KEVA) II \$336,000

W.K. Kellogg Foundation
New Mexico Learning and Evaluation
Consortium—Specific
Supplement \$272,593

OptumHealth New Mexico
New Mexico Certified Community
Behavioral Health Clinics \$233,984

San Felipe Pueblo
KEYWAH II \$115,092

OptumHealth New Mexico
NM SBIRT \$50,000

OptumHealth New Mexico
Multi-Systemic Therapy Data Reporting
Initiative \$31,317

OptumHealth New Mexico
New Mexico Certified Community
Behavioral Health Clinics—Stats Specific
Supplement \$25,647

OptumHealth New Mexico
New Mexico Certified Community
Behavioral Health Clinics—Specific
Supplement \$25,000

Altarum
Racial Equity in New Mexico \$22,500

OptumHealth New Mexico
Multi-Systemic Therapy Data Reporting
Initiative \$83

Jerald Belitz

Health Resources and Services
Administration
Psychology Internship Expansion Grant—
Continuation \$52,687

Jeanne Bereiter

OptumHealth New Mexico
BHSD New Mexico Suicide Prevention —
Continuation \$100,000

OptumHealth New Mexico
BHSD New Mexico Suicide Prevention —
Specific Supplement \$25,000

New Mexico Department of Health
BHSD NM Suicide Prevention—
Specific Supplement Training \$16,868

OptumHealth New Mexico
BHSD New Mexico Suicide
Prevention \$2,253

Snehal Bhatt

University of Southern Denmark
Project Elderly—
Specific Supplement \$38,718

Heffter Research Institute
Effects and Therapeutic Potential of Psilocybin
in Alcohol Dependence—Specific
Supplement \$2,000

Caroline Bonham

New Mexico Human Services
Department
MSU CBHTR II \$2,000,000

New Mexico Behavioral Health
Collaborative
MSU EARLY Clinic \$1,223,652

Albuquerque Area Indian Health Service
Abq Area IHS-IAA Center for Telehealth
Excellence Project \$838,250

New Mexico Behavioral Health
Collaborative
MSU Behavioral Health
Services \$569,392

New Mexico Human Services Department
NASP—Native American Suicide
Prevention \$99,000

Juan Bustillo

The Mind Research Network
ACAM-Bustillo-Multimodal Imaging of
Neuropsychiatric Disorders: Mechanisms
and Biomarkers (COBRE II) \$368,983

Montana State University
Clinical Trial Phase 4 \$350,049

Janssen Scientific Affairs, LLC
Clinical Trial Agreement—Phase 3—
Specific Supplement \$52,260

Richard Campbell

New Mexico Governor's Commission
on Disability
Youth Concussion Surveillance Tool—
Continuation \$20,782

Angioma Alliance
CCM Common Hispanic Mutation \$9,680

Annette Crisanti

OptumHealth New Mexico
Reducing Homelessness Among Persons
with Behavioral Health Problems—
Continuation \$209,966

University of Nevada, Las Vegas
Mechanisms of Change of PSWs \$69,255

OptumHealth New Mexico
Reducing Homelessness Among Persons
with Behavioral Health Problems—
Specific Supplement \$12,300

Molly “Martha” Faulkner

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

Paula Hensley

INNO Clinical Outcomes, LLC
Clinical Trial—Phase 2—
Non-specific Supplement \$114,088

INNO Clinical Outcomes, LLC
Clinical Trial—Phase 2—Supplement
and Extension \$57,538

Brian Isakson

Substance Abuse and Mental Health
Services Administration
ACTION II \$399,912

Substance Abuse and Mental Health
Services Administration
COPE Primary Care Integration \$398,868
Substance Abuse and Mental Health
Services Administration
COPE Primary Care Integration \$398,357

Avron Kriechman

New Mexico Department of Health
MSU DOH Telehealth
School-Based \$93,000

Stephen Lewis

Feinstein Institute for Medical Research
RAISE \$19,737

Stefan Posse

The Mind Research Network
MDA-Posse-Multimodal Imaging of
Neuropsychiatric Disorders: Mechanisms
and Biomarkers (COBRE II) \$54,535

Julie Salvador

New Mexico Children, Youth and Families
Department
Communities of Care (CYFD SOC Expansion),
With BAA—FY 18 \$145,670

Shawn Sidhu

New Mexico Human Services
Department
MSU Public Psychiatry
Program \$900,000

Robert Thoma

The Mind Research Network
Project 4—Thoma—Multimodal Imaging
of Neuropsychiatric Disorders: Mechanisms
and Biomarkers—Continuation \$58,663

The Mind Research Network
Project 4—Thoma—Multimodal Imaging
of Neuropsychiatric Disorders: Mechanisms
and Biomarkers—Continuation \$45,533

New Mexico Governor’s Commission
on Disability
Brain Injury Study on the Veteran
Population of New Mexico \$24,623

Mauricio Tohen

Hidalgo Medical Services
Psychiatric Services \$150,000

Bernalillo County
Psychiatric Services \$84,942

The Peak at Santa Teresa, Inc.
Professional Services \$25,000

Hidalgo Medical Services
Psychiatric Services \$25,000

Saint John’s Health Center
Medical Director Services \$14,976

Virginia Waldorf

New Mexico Behavioral Health
Collaborative
MSU NM SBIRT \$514,316

Claire Wilcox

National Institute on Alcohol Abuse
and Alcoholism
Neural Mechanisms of Change During
Treatment of Alcohol Use Disorder
with Prazosin—Continuation \$180,013

National Institute on Alcohol Abuse
and Alcoholism
Neural Mechanisms of Change During
Treatment of Alcohol Use Disorder
with Prazosin—Non-Specific
Supplement \$24,739

The Mind Research Network
tDCS and Cognitive Retraining to Augment
Pharmacotherapy for the Treatment of
Nicotine Dependence—
Continuation \$15,274

Radiology**Gary Hatch**

RTI International
Development of Curriculum and Instructional
Content for Workshop on Advanced
Radiologic Imaging in Medicolegal
Death Investigation \$55,963

Gary Mlady

U.S. Department of Veterans Affairs
Provide Radiological and Nuclear Medicine
Diagnostics and Therapy Services for
NMVAHCS \$2,961,387

U.S. Department of Veterans Affairs
Provide Radiological and Nuclear Medicine
Diagnostics and Therapy Services
for NMVAHSC—Non-specific
Supplement \$920,000

U.S. Department of Veterans Affairs
Provide Radiological and Nuclear
Medicine \$460,000

U.S. Department of Veterans Affairs
Provide Radiological and Nuclear Medicine
Diagnostics and Therapy Services for
NMVAHSC—Non-specific
Supplement \$230,000

New Mexico Department of Health
Breast and Cervical Cancer Early
Detection Program Project \$142,425

U.S. Department of Veterans Affairs
Provide Radiological and Nuclear Medicine
Diagnostics and Therapy Services for
NMVAHCS PO Modification to Add
Funds for Outstanding Claims \$16,492

Danielle Sorte

University of Cincinnati
DEFUSE 3: Endovascular Therapy
Following Imaging Evaluation for
Ischemic Stroke 3 \$67,298

Surgery**Arup Das**

Roche TCRC, Inc.
Clinical Trial Agreement—
Phase 2 \$140,200

New Mexico Commission for the Blind
PSA-10-23-FY17 Commission for the Blind—
Emergency Eye Care program \$125,000

Roche TCRC, Inc.
Clinical Trial Agreement—Phase 2
Supplement \$57,024

U.S. Department of Veterans Affairs
IPA- Finny M. Swamidoss \$49,719

Dusanka Deretic

National Institutes of Health
Rhodopsin Trafficking and Photoreceptor
Membrane Renewal (Competitive
Renewal)—Continuation \$340,875

National Institutes of Health
Rhodopsin Trafficking and Photoreceptor
Membrane Renewal—Non-specific
Supplement \$37,875

Marco Ricci

Datascope Corp
Intra-Aortic Balloon Pump Review and
Consultation—Continuation \$62,500

John Russell

Oral-Maxillofacial Surgery Associates of
New Mexico, P.A.
Professional Services \$256,165

Anil Shetty

New Mexico Department of Health
Cleft Palate Clinic Services \$10,800

■ Health Sciences Library & Informatics Center

Patricia Bradley

Center for Public Service Communications
Professional Development for Librarians
Serving Tribal Communities in
NM, AZ, CO and OK \$24,850

Center for Public Service Communications
Native Voices Outreach: NM's Tribal
Libraries Four Corners \$24,000

University of North Texas Health
Sciences Center
Continuing Health Information
Outreach in New Mexico \$10,000

Center for Public Service
Communications
Native Voices Outreach: New Mexico's
Tribal Colleges and Universities \$833

Karen McElfresh

Medical Library Association
Postell Professional Development
Award \$465

Sarah Morley

Grace and Howard Sewell Memorial Fund
Professional Development Award \$1,000

■ UNM Hospital

Eve Espey

New Mexico Department of Health
Prenatal and Postpartum Clinical,
Health Education and Ancillary Services
for Medically Indigent Pregnant
Women \$140,000

New Mexico Department of Health
Prenatal Medical Services for Medically
Indigent Women in New Mexico \$54,960

Steve McKernan

New Mexico Children, Youth and Families
Department
YCHC—Home Visits and
Education FY17 \$54,000

U.S. Indian Health Service
Inpatient Psychiatric Hospital
Services to IHS Beneficiaries \$25,000

San Juan Regional Medical Center
Helipad Use Agreement \$5,000

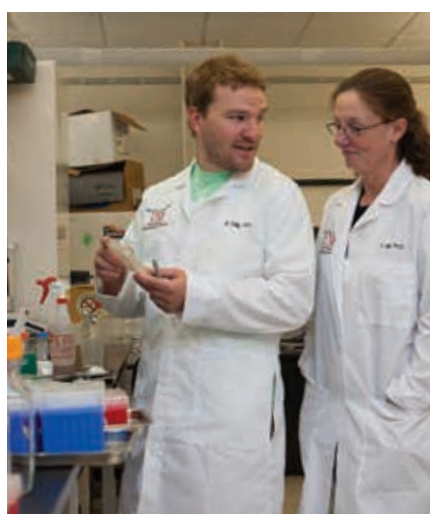
Rocky Mountain Holdings
Helipad Use Agreement \$5,000

Rodney McNease

City of Albuquerque
Assertive Community Treatment
Program \$713,300

Albuquerque Area Indian Health Service
Inpatient Psychiatric Services \$25,000

Albuquerque Health Services
Opioid Treatments \$25,000



Albuquerque Public Schools
Behavioral Health Assessment
and Treatment for Students \$9,000

Robert Perry

New Mexico Department of Health
Ebola Preparedness and Response
Activities \$21,000

New Mexico Department of Health
Hospital Preparedness Services \$6,600

New Mexico Department of Health
Hospital Preparedness Services \$6,600

Michael Richards

New Mexico Department of Health
Provide services in support of
the ThinkFirst Project \$5,000

New Mexico Department of Health
Rural Trauma Team Development
Course Project \$3,774

Doris Tinagero

City of Albuquerque
Gang Prevention \$183,000

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

■ UNM Sandoval Regional Medical Center

Richard Campbell

Sandoval County
Sandoval County DWI and Prevention
Program \$14,000

Robert Perry

New Mexico Department of Health
Hospital Preparedness Services \$7,100

Mark Unruh

Sandoval County Regional Emergency
Communications Center
Critical Care Services at SRMC \$25,000

■ UNM Medical Group, Inc.

Loretta Doyle

Miners Colfax Medical Center
Professional Services \$25,000

Jamie Finkelstein

MedTrak Services
Pharmacy Services
Agreement \$25,000

Prime Therapeutics
Pharmacy Participation
Agreement \$25,000

CVS Health/Caremark
Provider Agreement \$25,000

Prime Therapeutics
Pharmacy Participation
Agreement \$25,000

Denece Kesler

Lovelace Respiratory Research Institute
Occupational & Environmental Health
Consulting Services \$75,000

Jill Klar

Aberdeen Area Indian Health Service
Professional Services Provided
by UNM Medical Group \$25,000

Steven (Bruce) Williams

New Mexico Department of Health
HIV Services \$472,810

OptumHealth New Mexico
Provider Agreement \$25,000



How to Donate to UNM Health Sciences Center Research

Join Us on our Journey of Discovery

Our research programs are focused on critical health problems affecting New Mexicans and bridging the gap to more rapidly deliver discoveries to the clinical setting. Often the benefits of our innovations and discoveries are recognized and shared beyond our state borders to institutions in other states and in countries around the world.

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

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

About the Foundation

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

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



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UNM HEALTH SCIENCES CENTER

Discovery

Research Annual
Report 2017

UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER

Turning Research Into Cures

