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.
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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 long-standing 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 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.
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 promote 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.
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.
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.
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.
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.
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 soupçon 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 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.”
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,” 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.
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 clinics 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.”
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.

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.”
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 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.”
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.”
Integrated research yields rich results

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 groundwater 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.

“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.”

Johnnye Lewis, PhD
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
Dominique Perez, PhD Candidate
F32 Scholar, NIH
Cyclic AMP efflux inhibition as potential therapeutic target for leukemia
Mentors: Alexandre Chigaev, PhD, Larry A. Sklar, 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

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

Chelsea Saito-Reis, PhD Candidate
T32 Scholar, NIH
Role of CD82 in regulating hematopoietic stem cell adhesion and signaling
Mentor: Jennifer Gillette, 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

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 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

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

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

Joshua Sanchez, PhD Candidate
T32 Scholar, NIH
Neuroscience and Fetal Alcohol Spectrum Disorder
Mentor: Erin Milligan, 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
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.
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.
Contracts and Grants
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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 Cangiolosi
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

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

**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
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 Pharmacists 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 $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 Muttil
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 Muttil $5,000

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

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

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
  - **Amount**: $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
  - **Amount**: $102,360

- **New Mexico Cancer Care Alliance**
  - Clinical Trial Phase 2
  - **Amount**: $77,595

- **Muhammad Chohan**
  - New Mexico Cancer Care Alliance
  - Clinical Trial Phase 2
  - **Amount**: $51,165

- **Marianne Berwick**
  - National Cancer Institute
  - Integration of Clinical and Molecular Biomarkers for Melanoma Survival
  - **Amount**: $2,292,665

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

### Ursa Brown-Glaberman

- **New Mexico Cancer Care Alliance**
  - Clinical Trial Phase 2
  - **Amount**: $105,285

- **Clinical Trial Phase 3**
  - **Amount**: $95,560

### Muhammad Chohan

- **New Mexico Cancer Care Alliance**
  - Clinical Trial Phase 1
  - **Amount**: $95,191

### Matthew Fero

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

- **Oxnard- Myelodysplastic Syndrome with a PDX tissue repository**
  - **Amount**: $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
  - **Amount**: $154,500

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

### Carter Arana Yi

- **New Mexico Cancer Care Alliance**
  - Clinical Trial Phase 2
  - **Amount**: $101,960

- **Women and Infants' Hospital of Rhode Island**
  - **CUTI**: $29,660

### Deirdre Hill

- **National Cancer Institute**
  - The Natural History of Untreated Breast Cancer
  - **Amount**: $68,175

- **National Cancer Institute**
  - The Natural History of Untreated Breast Cancer
  - **Amount**: $7,575

### Anita Kinney

- **National Cancer Institute**
  - GRACE
  - **Amount**: $629,227

### Richard Lauer

- **New Mexico Cancer Care Alliance**
  - Clinical Trial Phase 2
  - **Amount**: $121,985

- **Clinical Trial Phase 3**
  - **Amount**: $117,125

### Ben Liem

- **New Mexico Cancer Care Alliance**
  - Clinical Trial Phase 2
  - **Amount**: $87,175

### Elizabeth Lokich

- **Women and Infants' Hospital of Rhode Island**
  - **CUTI**: $722

### Carolyn Muller

- **National Cancer Institute**
  - NCI Early Onset Malignancies Program
  - **Amount**: $120,000

- **New Mexico Cancer Care Alliance**
  - Clinical Trial Phase 2
  - **Amount**: $101,960

- **Women and Infants' Hospital of Rhode Island**
  - **CUTI**: $29,660

### Laura Nervi

- **Consulate of Mexico in Albuquerque**
  - Ventanilla de Salud
  - **Amount**: $36,979

### Scott Ness

- **University of Texas MD Anderson Cancer Center**
  - SGTB—MDCCC Subaward
  - **Amount**: $410,148

### Renata Pasqualini

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

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

- **Gillson Longenbaugh Foundation**
  - In Vivo Antibody Phage Display
  - **Amount**: $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

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
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

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

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

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

Rebecca Fastle
New Mexico Department of Health
New Mexico Child Fatality Review $10,000

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

Andrew Harrell
National Park Service
Grand Canyon National Park—EMS Medical Services—Continuation $24,000
U.S. Forest Service
Wilderness First Aid $2,450

Steven McLaughlin
City of Albuquerque
Professional Services—Medical Directorship $250,000
State of New Mexico
Medical Director $55,000

Grace (Joo-Hee) Park
The Mind Research Network
The Impact of Diffuse Mild Brain Injury on Clinical Outcomes in Children $39,838
The Mind Research Network
The Impact of Diffuse Mild Brain Injury on Clinical Outcomes in Children $32,356

Robert Sapien
University of Arizona
EMSC: Pediatric Emergency Care Applied Research Network—Continuation $216,037

Brandon Warrick
U.S. Department of Justice
Litigative Consultant—United States v. David Richard Howe et al. $25,855

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

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

Family & Community Medicine
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 New Southwest  
$1,000,000

New Mexico Department of Health  
New Mexico Immunization Coalition—Continuation—For Period 1  
$372,837

Lawrence Leeman  
UNM Medical Group, Inc.  
Coverage to FCM Physicians  
$253,274

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

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 Rhyne  
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

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 Bologa  
Givaudan Flavors Corporation  
Givaudan Research Agreement—Year 9  
$200,000

Steven Bradfute  
Defense Threat Reduction Agency  
Effects of Differential Gycosylation 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

Internal Medicine

Internal Medicine
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<tr>
<th>Name</th>
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<th>Project Description</th>
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<td>Marcos Burgos</td>
<td>New Mexico Department of Health</td>
<td>Tuberculosis Medical Care, Consultation and Education Services</td>
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<td>Ravi Durvasula</td>
<td>National Institute for Occupational Safety and Health</td>
<td>An Environmentally Friendly Larvicide for Mosquito Control</td>
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<td>The Paratransgenic Sand Fly: A Strategy to Control Leishmaniasis</td>
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<td>Care Optimization through Patient and Hospital Engagement Clinical Trial for Heart Failure</td>
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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.
India Large 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

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 1 Diabetes TrialNet $950

Akshay Sood
Miners Colfax Medical Center
Medical Consultation and Care $140,914
Miners Colfax Medical Center
Dialysis Clinic, Inc.
Repurposing Relaxin to Inhibit Cystogenesis and Progression of Polycystic Kidney Disease—Continuation $60,000

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
Coordination 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+ Stomal Cells in THY/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
NovoSterilis
Understanding and Optimization of Virus Inactivation by scCO2/PAAL 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 Oncomigenic 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
AgiliVax, 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.
PfEMF (TheraCap) Study $23,289
Sandia National Laboratories
Research Traumatic Brain Injuries $14,794
Alkermes, Inc.
Alkermes ALK8700-A301 $8,800

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<tr>
<th>Researcher</th>
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<td>Treatment of Multiple Sclerosis with Siponimod</td>
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<td>Determinants of Success: Characterizing the Facilitators of Mainstream, Integrated Abortion Provision</td>
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<td>Innovations in Treatments for Pelvic Floor Disorders: A Southwestern PFDN Site</td>
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<td>Rebecca Rogers</td>
<td>Biomedical Research Institute of New Mexico</td>
<td>Chronic Abdominopelvic Pain in the Female Veteran Population: A Comprehensive Investigation</td>
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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

Kariissa 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 Tetrascin 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 FRET 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

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

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

Mohammad Vasef  
National Institute of General Medical Sciences  
Academic Science Education and Research Training  
$873,496

Angela Wandinger-Ness  
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

Children’s Hospital of LA  
Kids Seek Cure For Kids  
$540

Cosette Wheeler  
National Institute of Allergy an Infectious Diseases  
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  
University of Colorado  
Regional Hemophilia Network—Mountain States  
American Thrombosis and Hemostasis Network  
ATHN Data Quality Counts  
American Thrombosis and Hemostasis Network  
My Life, Our Future  
University of Colorado  
Regional Hemophilia Network—Mountain States  
$34,250  
$32,021  
$15,500  
$5,350  
Tanya Baker-McCue  
New Mexico Department of Health  
Mi Via Waiver Provider Program  
New Mexico Division of Vocational Rehabilitation  
Project Search  
New Mexico Division of Vocational Rehabilitation  
Partners for Employment  
$2,470,058  
$425,000  
$410,000  
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$15,000  
Kirsten Bennett  
Health Resources and Services Administration  
Telhealth Network Grant  
New Mexico Department of Health  
Envision New Mexico—Care Coordination and the Patient-Centered Medical Home  
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$1,224,300  
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San Juan Regional Medical Center Echocardiograms  
San Juan Regional Medical Center Echocardiograms  
Presbyterian Healthcare Services Pediatric Nephrology On-Call Services  
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$25,000  
$25,000  
$118,000  
**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  
New Mexico Human Services Department  
Increasing the Quality of Life of New Mexicans with Brain Injuries and Caregivers Through Effective Support Services—Specific Supplement  
New Mexico Governor’s Commission on Disability  
Support for the Southwest Disability Conference—Continuation—For Period 1  
New Mexico Developmental Disabilities Planning Council  
Stipends for Southwest Conference on Disability  
$63,606  
$20,000  
$10,000  
Loretta Cordova de Ortega  
New Mexico Department of Health  
Children’s Medical Services Outreach Clinics Project  
New Mexico Department of Health Professional Services  
San Juan Regional Medical Center Echocardiograms  
San Juan Regional Medical Center Echocardiograms  
Presbyterian Healthcare Services Pediatric Nephrology On-Call Services  
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$25,000  
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**Theresa Cruz**  
New Mexico Human Services Department  
SNAP-ED Evaluation  
Presbyterian Healthcare Services REACH Evaluation  
Thornburg Foundation  
Home Visiting: Discovering What Works for Increasing Referrals  
$175,763  
$98,102  
$60,000  
**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)  
Centers for Disease Control and Prevention MSU-PRC CORE  
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  
$386,101  
$347,899  
$80,000  
**Koh Boayue**  
St. Baldrick’s Foundation  
$60,000  
Children’s Hospital of Philadelphia Clinical Trial Study: Phase 2  
Children’s Hospital of Philadelphia Clinical Trial  
$15,500  
$1,500  
**Sophie Bertrand**  
New Mexico Children, Youth and Families Department  
ACAP—Home Visiting Training—Specific Supplement—HVT Level 2  
$729,500  
**Courtney Burnette**  
University of Missouri—Columbia  
ECHO Autism—STAT January Training Session  
$2,500  
**Laura Caffey**  
New Mexico Department of Health  
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**Anthony Cahill**  
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$10,000  
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Telhealth Network Grant  
New Mexico Department of Health  
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$1,224,300  
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San Juan Regional Medical Center Echocardiograms  
San Juan Regional Medical Center Echocardiograms  
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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.

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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.