UNM Health Sciences Center Research Annual Report 2015

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TRANSFORMATION
TURNING RESEARCH INTO CURES
University of New Mexico 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

Our mission is to provide an opportunity for all New Mexicans to obtain an excellent education in the health sciences. We will advance health sciences in the most important areas of human health with a focus on the priority health needs of our communities. We will ensure that all people in our majority-minority state have access to the highest-quality health care.

CORE VALUES

The UNM Health Sciences Center’s most important value is a steadfast duty to improve the health of all New Mexicans. We will serve our patients and the public with integrity, accountability and the highest level of professionalism. We will strive as an institution and as individuals to recognize, cultivate and promote all forms of diversity; to fully understand the health needs of our communities and to advance clinical, academic and research excellence. We are committed to performing our duties with compassion and respect for our patients, learners and colleagues.
One of the great things about working at an academic health center is seeing the many ways in which our missions of education, research and clinical care reinforce one another.

Our biomedical research enterprise, which has long focused on developing state-of-the-art diagnostic and therapeutic technology, is also a powerful driver of economic activity in New Mexico.

Each year, UNM Health Sciences Center research activity pumps tens of millions of dollars into the state’s economy, supporting hundreds of well-paid, highly skilled jobs.

An additional economic boost comes in the form of new private sector biotech startups that are spun off from UNM HSC research innovations. Each of these new startups has the potential to grow into a thriving business, creating more jobs and opportunity in our state.

This year, we were fortunate to see renewal of funding for our Clinical & Translational Science Center, which does a tremendous job of training and mentoring the next generation of researchers, creating a clear pathway to continue building on our successes. Our program was one of only four nationally that had an exceptional score, allowing it to be fully funded.

And the UNM Cancer Center won coveted comprehensive designation from the National Cancer Institute. We earned an “outstanding” evaluation in four key areas of competence from the National Cancer Advisory Board.

These are examples of what makes an academic health center unique and what enables the Health Sciences Center to make such a significant impact on the health and well-being of New Mexicans.

We all can be proud of these accomplishments, and I’m grateful to our entire research community for the passion, creativity and dedication they bring to their work.
We did it again! I am pleased to report that the UNM Health Sciences Center continues to make scientific breakthroughs while building its research mission, but in FY 2015 we once again outdid ourselves, securing a record total of $161 million in funding.

Our funding success is a tribute to the inspired work of our faculty, students and staff, who continue to break new ground in so many areas and have done a terrific job of putting UNM on the map as a center of research and innovation.

This achievement caps more than a decade of continual growth in extramural funding and highlights our focus on developing major new discoveries that improve the health and well-being of New Mexicans.

But that is only part of the story.

The past year also saw the renewal of National Institutes of Health funding for our Clinical & Translational Science Center. The comprehensive designation bestowed on the UNM Cancer Center by the National Cancer Institute is another major achievement. These developments make us one of only 29 institutions in the nation with both a Comprehensive Cancer Center and a Clinical and Translational Science Award.

Adding to the good news, the Brain and Behavioral Health Institute recently won a five-year $11.6 million grant from the National Institute of General Medical Sciences to develop a new Center for Brain Recovery and Repair.

As you’ll read in these pages, our researchers are also finding fresh ways to tackle youth obesity, protecting our communities with new methods for diagnosing and treating tuberculosis and searching for more effective tools to fight deadly MRSA infections.

Stay tuned for further discovery and innovation!
The College of Nursing celebrated its 60th anniversary in 2015, marking a long-standing tradition of providing local and national leadership and innovation with a comprehensive approach to meeting our education, practice and research missions.

Throughout its history, the College has focused on promoting and enhancing health and wellness, along with creative initiatives and strategies to help patients, families and communities manage health challenges.

Our research portfolio includes important work in cancer prevention and screening, sleep apnea, pain, respiratory conditions, women's health, childhood asthma and rural health, along with problems affecting particular populations, such as Native Americans and veterans.

College of Nursing faculty serve as leaders and key members of interdisciplinary research teams. They also contribute to local and national initiatives dedicated to advancing the science of health, including UNM’s Clinical & Translational Science Center and the federally funded Patient-Centered Outcomes Research Institute. Faculty also hold leadership roles in national and international organizations and share the results of their research widely to extend the impact of their work across New Mexico and well beyond.

One project being led by Stephen Hernandez, PhD, is exploring Air Force officer and enlisted nursing personnel’s perceived levels of stigma and barriers to accessing mental health services to deal with issues of stress and resilience.

The project’s findings will provide a foundation to further study the unique population of military nurses and medical technicians with the long-term goal of developing meaningful interventions for this vulnerable group.

The College’s long tradition of collaborative research and service continues to bear fruit. We will continue to work with colleagues and partners to address New Mexico health priorities for many years to come.
College of Pharmacy scientists are creative visionaries.

With a combined 21 active U.S. patents and another 34 patent applications pending, our faculty researchers are seeking innovative solutions to combat deadly diseases and health issues. Some of their work has led to patents on important inventions to treat melanoma and tuberculosis and to better diagnose pneumonia and other infections.

Our faculty members engage in a wide variety of research that seeks to understand how arsenic and uranium cause disease, how a radiotracer might diagnose appendicitis or better treat asthma – even how smokers might kick the habit without packing on the pounds.

Our scientists are dedicated to advancing human health through better drugs or drug target identification and in clinical settings to achieve better therapeutic outcomes and improvements in health care policies.

Research funding at the College continues to grow. Thanks in part to our “Request-for-Proposals Intramural Pilot Funding Initiative,” which stimulated interdisciplinary collaboration on large-scale grant proposals, research grants and contracts awarded to our faculty members exceeded $7.1 million last year. We now rank in the top tier of colleges of pharmacy in National Institutes of Health (NIH) funding and in total research dollars.

More than 30 of our faculty members are involved in research. Faculty submitted 80 proposals during FY 2015. Impressively, 50 of these proposals were funded, for a success rate of 63 percent.

This year, a team of environmental health researchers successfully obtained a prestigious NIH P50 grant to establish the Center for Native American Environmental Health Equality Research. The researchers also submitted an NIH P42 Superfund Basic Science Research Center application that will investigate the impact of exposure to toxic metals on human health.
The UNM School of Medicine continued its success in growing research funding and programmatic initiatives amid an increasingly competitive environment for research support.

In the fiscal year ending in June 2015 the school set another record in total funding, reaching $143 million. This represents an increase of $10 million compared to FY 2014.

National Institutes of Health (NIH) support for research has remained nearly flat over the past five years. Given that and the declining purchasing power of awarded funds, the School of Medicine’s success is all the more remarkable.

Two UNM departments, Family Medicine and Pathology, were ranked in the Top 10 in the country among their peer departments for NIH funding. Ten faculty members received more than $1 million in NIH funding – with three of those receiving more than $3 million.

With strong participation from the School of Medicine, the Clinical & Translational Science Center (CTSC) submitted the second-best application nationwide and received NIH funding for its second five-year award.

The CTSC consistently leads in team science, population health and community engagement, often serving as a model for larger institutions. The refunding of the CTSC ensures that this key translational research framework will continue to underpin and support School of Medicine research.

Our six Signature Programs continue to support team science in key areas of health, including cancer, brain and behavioral health, infectious disease and immunity, child health, cardiovascular and metabolic disease and environmental health.

The National Cancer Institute recently bestowed coveted “comprehensive” designation on the UNM Cancer Center. According to the NIH, comprehensive cancer centers demonstrate an added depth and breadth of research, as well as substantial trans-disciplinary research that bridges the scientific areas of basic, clinical and community-based research related to cancer.
People living in rural counties are nearly twice as likely as people in big cities to overdose on prescription painkillers, so it’s not surprising that New Mexico, with its wide-open spaces, has one of the highest death rates from prescription opioids in the U.S.

It’s a disturbing trend for Robert Rhyne, MD, a professor of Family & Community Medicine and co-director of the Clinical & Translational Science Center’s Community Engagement and Research Core.

“Small-town docs are passionately interwoven into their communities, caring for friends and neighbors,” Rhyne says. “Entire towns’ reliance on their local physicians leaves little time for professional networking, education or advancement. The challenge becomes providing the highest standards of care when geographically isolated.”

Rhyne believes that the treatment of chronic noncancer pain (CNCP) such as arthritis, back pain or headaches is a frustrating problem for rural primary care providers. “We’re overprescribing pain medication based on a dated medical paradigm,” he says.

“Newly established clinical guidelines can take years for adoption into clinical practice,” Rhyne adds, “so we’re developing a system called practice detailing to deliver the most current evidence-based information in the most usable format for rural practitioners to manage CNCP.”

Rhyne’s team is conducting a comparative study designed to deliver CNCP guidelines in a toolkit that rural clinicians can – and will – apply to their patients using an algorithm that best fits rural practices.

From that algorithm, developed partly with feedback from community clinicians, the detailed toolkit is continually evolving to provide evidence-based clinical guidelines for treating CNCP patients with and without opioids.

“We’re training physicians to better conduct patient assessments and explore treatment options such as physical and behavioral therapy or sleep therapy, surgical interventions, acupuncture and others – with opioids as the final treatment option,” Rhyne explains.

“We’re adaptive and interactive, using two-way communication to create better information and buy-in from rural practitioners in communities across the state.”
The UNM Clinical & Translational Science Center (CTSC) was awarded a five-year, $23-million grant renewal in 2015 following a fierce national competition.

It received one of the highest scores in the nation, becoming one of only four such centers nationally to receive full Clinical and Translational Science Award (CTSA) funding from the National Institutes of Health (NIH).

This award recognizes UNM’s success in conducting innovative, cutting-edge biomedical research that quickly and safely converts fresh ideas into New Mexico clinical practice, says Richard S. Larson, MD, PhD, executive vice chancellor and vice chancellor for research at the UNM Health Sciences Center.

“Through our CTSC, we’re bringing state-of-the-art therapies and technologies to our citizens and our families that otherwise wouldn’t be available,” Larson says. “We’re accelerating basic health discovery and ways of delivering care into clinical trials in practices in all 33 counties across the state. It’s very exciting.”

The CTSC pools essential resources for researchers to more efficiently collaborate, design and conduct their studies, while adding an extensive mentoring program to help young scientists learn to create novel medical innovations.

The CTSC also guides investigative teams who are continually introducing important new medications, diagnostic tools, and best-practice protocols to treat New Mexico patients with complex diseases like addiction, obesity and diabetes.

In addition to supporting research by increasing laboratory space, cultivating junior researchers, offering regulatory and legal guidance
and directing technology and resources, the CTSC will launch new programs to improve innovative study designs, direct prototype development and steer promising results through the commercialization process.

UNM’s biomedical research has delivered discoveries in many areas, including infectious disease, metabolic disorders and substance abuse. More than 500 CTSC researchers and support staff have led the way in developing vaccines for deadly infections like drug-resistant tuberculosis, Larson says. They currently conduct 125 clinical trials across every New Mexico county, along with extensive community-based research throughout the state.

The NIH introduced the CTSA network in 2006 to speed new drug therapies, vaccines and diagnostic tools through the developmental pipeline from bench to bedside. UNM first joined the CTSA consortium in 2010, becoming one of just 62 universities in the country with a program to convert basic laboratory discoveries into medical therapies and devices that make a real difference in patients’ lives.

“Our first five years provided a sturdy foundation on which to expand our effectiveness in developing new health and treatment concepts, and seeing them all the way through to actual patient care,” Larson says. “In the future we’ll be adding to CTSC’s scope and focus, particularly in the areas of translational workforce development, multi-site study support, participant recruitment and CTSA consortium-wide initiatives.”

In addition to its tremendous economic contribution to New Mexico – nearly 40 biotech businesses have spun off from research conducted at UNM over the past decade – the renewed CTSA represents UNM HSC’s ascendance into the higher tier of academic health centers nationally, Larson adds.

“Perhaps most importantly, the CTSA enables us to conduct meaningful research that brings hope to our patients throughout the state,” he says. “This accomplishment demonstrates the terrific progress we have made in just five years as a CTSA recipient. We are excited to contemplate the many new advances in coming years that will benefit New Mexicans.”
“Fifteen years ago, we made a promise to be of service to the people of New Mexico and to overcome New Mexico’s cancer burden,” says Cheryl Willman, MD.

“To do that, we sought to be one of the nation’s very best: a National Cancer Institute-designated comprehensive Cancer Center,” says Willman, director and CEO of the UNM Comprehensive Cancer Center. “And we delivered!”

The Cancer Center underwent a rigorous process to achieve its comprehensive designation last summer. The highly sought-after designation recognizes the center’s achievements in four areas: providing integrated cancer diagnosis and treatment, providing access to national clinical trials, conducting world-class cancer research and educating the next generation of cancer health care and scientific professionals.

UNM’s cancer research is supported by more than $72 million in annual extramural funding and takes advantage of regional scientific and engineering strengths. Cancer Center scientists collaborate with colleagues at Sandia National Laboratories, Los Alamos National Laboratory and the Lovelace Respiratory Research Institute.

UNM scientists also work with researchers at New Mexico State University. These collaborations have led to breakthroughs in targeted therapies and cancer diagnostics.

The UNM Comprehensive Cancer Center also conducts clinical research. As part of the Oncology Research Information Exchange Network, it is launching a program to offer patients an opportunity to have their cancer tumors sequenced to benefit not only cancer research but also themselves when newer, better treatments become available.

In addition, the Cancer Center’s NCI Community Oncology Research Program grant supports access to clinical trials in diverse communities throughout the state, helping patients and cancer scientists alike.
In the substance use and mental health world, researchers know that early detection and treatment can greatly improve outcomes. In New Mexico these conditions often go untreated because of stigma and lack of access due to the limited behavioral health workforce.

Deborah Altschul, PhD, aims to address these challenges head-on with her New Mexico Screening, Brief Intervention and Referral to Treatment program.

“Most people already go to primary and urgent care for other health issues,” she says. “Our goal is to infuse behavioral health into these settings. That way, treatment is easily accessible in nonthreatening settings.”

Each of the grant’s sites houses a behavioral health provider along with a certified peer support worker. Every patient undergoes a universal screen that takes only minutes to complete.

If the screen is positive for substance abuse, depression, anxiety or trauma, patients are immediately introduced to the behavioral health team for further assessment and treatment. “This increases access to convenient, evidence-based treatment,” Altschul says.

Altschul and her team collect data on every person who is screened. They follow 20 percent of the patients who screen positive every six months for two years to evaluate whether this approach effectively integrates behavioral health into primary care settings.

“By putting screening and treatment where people already are comfortable seeking help, we hope to catch substance abuse and mental health issues before they become big problems,” Altschul says.

“Additionally, given our state’s limited behavioral health workforce and health disparities, this research has major implications for public health in New Mexico.”
The human brain — containing some 86 billion neurons (and trillions of connections among them) — is the most intricate known structure in the universe. A special team is needed to tackle this complexity and devise new treatments for neurological diseases and injuries.

UNM’s Brain & Behavioral Health Institute (BBHI) takes a multidisciplinary approach to attacking brain-related problems, bringing together researchers from across campus, including the departments of Neurology, Neurosurgery, Neurosciences and Psychiatry and Behavioral Sciences.

“Research and education have traditionally been quite compartmentalized,” says BBHI director Bill Shuttleworth, PhD, Regents’ Professor in the Department of Neurosciences and associate director of the Clinical & Translational Science Center. “BBHI dramatically changes the dynamic. We have an opportunity to leverage each other’s expertise to enrich research programs and be more responsive to national funding opportunities.”

One example is the competitive five-year $11.6 million federal grant that BBHI recently secured to establish a new Center for Brain Recovery and Repair. The grant from the National Institute of General Medical Sciences will fund five junior investigators to launch new research into brain stimulation techniques and ways of regenerating brain tissue.

The money will also help provide research support. “We’re a platform to facilitate diverse programs that address brain health across the lifespan,” Shuttleworth says. “This is one of BBHI’s key achievements to date.”

BBHI is committed to tailoring its patient-centered research to meet the unique needs of New Mexicans. Starting in 2013, BBHI faculty spent 18 months meeting with individuals and advocacy organizations to find out what mattered most to them.

Principal Investigator
Bill Shuttleworth, PhD
Director, UNM Brain & Behavioral Health Institute, Regents’ Professor, Department of Neurosciences

Grant Name
UNM Center for Brain Recovery and Repair

Grantor
National Institutes of Health/National Institute of General Medical Sciences
Community groups “are really the engine pulling the train,” Shuttleworth says. He credits the New Mexico Brain Network, a coalition of patient advocacy organizations, with helping to shape the research agenda. “They helped us develop a meaningful program.”

Network representatives will be included in steering committees to help shape the center’s development, he says. The group has been meeting monthly and is also working with the Alan Alda Center for Communicating Science at Stony Brook University.

The Alda Center generally focuses on teaching scientists to communicate with the public, but the New Mexico advocates have helped flip the paradigm; now, the center has become interested in teaching scientists how to listen to laypeople. This work is funded by a federal Patient-Centered Outcomes Research Institute award to BBHI to facilitate progress in Alzheimer’s disease, cerebral cavernous malformations and autism.

“We’re trying to do something special,” Shuttleworth says. “We’re trying to pull people together from very different groups across campus. People have been working on brain disorders at UNM for decades and there has been a pent-up feeling that we could do more collaboratively, across disciplines.”

BBHI is making progress in its research, Shuttleworth says. “It has an ambitious agenda. But, still, there’s a lot of hard work to do to break down some of those barriers. We’re looking for opportunities to collaborate.”
The Centers for Disease Control lists Methicillin-resistant Staphylococcus aureus (MRSA) as a top threat to human health and have called for a national strategy to combat it. At UNM, Pamela Hall, PhD, and her research team are doing their part, looking for a new way to defeat MRSA.

It is an important battle. In the past, MRSA was known as a hospital-acquired disease, striking patients who have compromised immune systems. But even healthy people – from kids to pro-football players – can contract it. The past few years have seen the drug-resistant germs evolving faster and faster, Hall says.

“It is going to take a multi-level offensive to defeat MRSA,” says Hall, an assistant professor in the College of Pharmacy’s Department of Pharmaceutical Sciences. “But if we can find the means to disarm the bacteria, then we can defeat them.”

Bacteria become drug-resistant when a few germs survive exposure to an antibiotic. Killing off their competition actually makes it easier for the remaining germs to multiply.

Hall’s lab is testing anti-virulence signaling strategies. If vaccines can be developed that block the bacteria’s ability to recognize and communicate with each other, they won’t become activated and begin to colonize – meaning no infection to eradicate and no chance of resistance developing.

Hall and her team have found that targeting virulence regulation systems can actively protect from MRSA. The next step is gaining a better understanding of how the vaccine will perform against different types of MRSA.

The stakes are high. A future without effective strategies to battle MRSA would mean a step back to the pre-antibiotic world, where even a small cut could be catastrophic.
Dominique Price wants to wage a war on tuberculosis with a vaccine that works.

“I am extremely motivated,” says Price, a postgraduate student in the Department of Pharmaceutical Sciences.

TB is one of the world’s deadliest contagious diseases – 9 million people developed the disease in 2009, and 1.5 million died from it – but most fatalities are preventable.

The current injectable vaccine, known as Bacille Calmette-Guerin or BGG, is used in more than 100 countries, but it provides little protection in most hard-hit areas of the world, including Southeast Asia and Africa.

“It does not generate a strong immune response in the lungs, the prime region where we need the immune cells,” says Pavan Muttil, PhD, an assistant professor in Pharmaceutical Sciences.

“We could treat the disease by giving a vaccine directly into the lungs,” adds Muttil, the principal investigator of a study designed to develop a better TB vaccine.

Price and Muttil’s research suggests that the BCG vaccine’s ineffectiveness is partly due to people’s exposure to non-tuberculosis mycobacteria in soil and water.

The body develops ways to “compartmentalize immunity” by triggering an immune response to some pathogens while avoiding a response to others that are not necessarily harmful to the body, Price says. But the mycobacteria, which belong to the same family as tuberculosis, confuse the immune system, rendering the injectable vaccine less effective.

Price tested in mice whether a dry powderized form of the vaccine could provide better protection if delivered directly to the lungs.

Mice exposed to mycobacteria got sick after receiving the current BCG vaccine through the skin. But when they received a vaccine via the lungs, the mice developed an effective immune response.

“The mice were able to fight off the bacteria,” Price says. “That is really exciting.”
“What I kind of do is put unusual things together,” says Graham Timmins, an associate professor in the College of Pharmacy’s Department of Pharmaceutical Sciences.

It’s a modest statement from a researcher who holds seven UNM-affiliated patents that involve innovative technology to quickly diagnose tuberculosis and other lung infections.

Another Timmins patent proposes a more effective treatment for TB, and yet another involves evaluating sunscreens for their protection against all potentially damaging solar radiation.

His research focuses on using stable isotope-related compounds and free radical biology – the unusual things he puts together – to better diagnose and treat some common and deadly diseases.

Asked which of those patents he is most proud of, Timmins groans. “Ahh,” he says. “It’s like which of your children do you love the most?”

Let’s start with his rapid breath-test technology, known as the urease breath test. Ureases are bacterial enzymes that are expressed by many bacteria. “If you look at serious lung pathogens,” Timmins says, “most of them have it.”

Timmins’ stable isotope-labeled tracer compound, inhaled by a patient through a nebulizer or inhaler, fills the entire lung. It detects and identifies different infections upon exhalation – and does so within minutes.

“You can screen for tuberculosis,” Timmins says. “You can see if somebody’s got pneumonia. You might be able to see the difference between viral and bacterial pneumonia.”

His rapid breath-test technology patents have led to the creation of a company, Avisa Pharma, headquartered in Santa Fe. The company has raised $8 million and its first clinical development is focusing on using...
Timmins’s rapid breath test for TB with plans to expand research into pneumonia and cystic fibrosis.

If there is a theme to Timmins’ work, it is speed.

“What we’re trying to do is have a very, very rapid screening test for TB so the whole thing could be over in five or 10 minutes,” Timmins says. The fastest TB diagnostic test now takes three hours and the technology it uses is relatively un-portable.

TB is most common in developing countries where transportation is limited – it can take a full day for a patient to travel to a clinic or a clinician to travel to a rural area to conduct testing.

“With this,” Timmins says, “you could put everything in a backpack and you could just cycle to a village and test a whole lot of people. If somebody can be diagnosed and have their drug susceptibility determined in that single encounter, then you don’t lose them to follow-up. That’s a major improvement.”

The test, which has worked in 10 minutes in animal trials, could have a huge impact: the disease infects millions of people worldwide and results in 1.5 million deaths each year.

“Sometimes,” Timmins says, “it’s just speed. You can potentially diagnose earlier in the processes, with the assumption that if you can intervene earlier there’ll be a better outcome.”

Another of his innovations modifies an existing TB drug with stable isotopes to improve its infection-fighting effectiveness. “It’s very, very complex,” Timmins says. “It’s taken me seven or eight years to figure it out.”

Yet another patent addresses the efficacy of sunscreens in protecting against melanoma. Sun Protection Factor ratings only measure protections against ultraviolet radiation, not all of the potentially damaging wavelengths. Timmins’ patent involves analyzing a sunscreen for all the potential melanoma protection factors.

And another involves using the breath test to rapidly diagnose *Pseudomonas aeruginosa* in cystic fibrosis patients. Once it is established, it’s a very difficult infection to eradicate, but when caught early it can be eliminated. Timmins hopes the test will significantly improve the lives of some cystic fibrosis patients.

Timmins, who joined UNM in 2001, has been recognized many times for his research accomplishments. In 2013 he received the STC.UNM Innovation Fellow Award thanks to his prolific record.

While accolades and patents are prestigious and pharmaceutical companies may show profit, Timmins says the questions that underlie the research are his real motivators.

“The reason you do it is to get at these questions,” Timmins says. “Most smart people just like working problems.”
Teenagers love high-tech gear, so it makes sense to use the latest gadgets to improve their health.

But few studies have been done on using technology to motivate teens to become more active and lose weight, says Jeanne Dalen, PhD, research assistant professor in the Office of Pediatric Research.

Dalen and her team studied three different brands of activity trackers – devices that record data such as steps taken, heart rate and calories burned. “Researchers usually use these just to collect data,” she says. “We began to ask if fitness trackers are motivating in and of themselves.”

The challenge is a major one: 35 percent of U.S. teenagers are overweight and one in six has metabolic syndrome.

In a recent study Dalen divided adolescents ages 11-16 into three groups. Each tested three different trackers for several weeks.

“We wanted to know if they would wear them and what they would like,” Dalen says. “Fitness trackers are beginning to be paired with motivational websites, so people can really start to become engaged on a social level and on a motivational level, using computer technology.”

Dalen is also studying the effectiveness of a meditation-based mindful eating program for teens. “This may represent a unique scientific approach to the current adolescent obesity epidemic,” she says.

Her team has identified an unexpected barrier to adolescent enrollment, though.

“We are seeing success once families are enrolled and begin to experiment with eating mindfully together at mealtime,” she says. “But sometimes the last thing a teenager is going to want to do is anything that their parent thinks is a good idea.”
Intimate relationships are complex, fueled by biology, chemistry, emotions, environment and upbringing. Mixing in alcohol with often contentious issues such as finances, child rearing or in-laws can quickly ignite domestic violence.

Intimate partner violence is a big problem in the U.S. An estimated 22.4 million physical assaults are committed every year, costing $6.2 billion in direct medical and mental health services alone.

Investigator Brandi Fink, PhD, a KL2 Scholar in the Clinical & Translational Science Center, believes that alcohol-induced over-arousal plays a crucial role in heightening patterns of violence between couples.

“Fifty to 75 percent of partner violence incidents involve one or both partners under the influence of alcohol,” she says. “You can’t study partner violence without studying the effects of alcohol.”

Alcohol-induced over-arousal reflects changes in heart rate, respiration, skin conductance and brain responses that Fink hypothesizes play a crucial role in triggering partner violence.

Fink’s study compares the arousing effects of alcohol amid conflict, as well as the different responses in emotion regulation between violent and nonviolent partners.

She’s applying rigorous screening, interviewing and coding, precise demographic and psychophysiological data collection and EEG neuroimaging measures to her carefully selected sample.

Current partner violence interventions rarely address alcohol use and can be tainted by cultural assumptions, Fink says. They often focus on males, based on the belief that the male is always the aggressor.

“In fact, there are over 200 studies that show both genders are equally violent,” she says. “And when only one partner is violent, it’s more often the female. By blending psychology, psychiatry and clinical neurosciences research methods, we have teamed to scientifically dissect this serious public health issue that destroys New Mexico families.”
Every creature with a nervous system experiences discomfort from time to time – but severe chronic pain presents a special kind of suffering.

A multidisciplinary team of UNM researchers is tackling this problem with the help of a new, state-of-the-art laboratory that will help them pinpoint how the nervous system responds to potential therapies.

“We want to focus on pain mechanisms,” says Hugh Martin, MD, chair of the Department of Anesthesiology and Critical Care, who spearheaded construction of the new facility. “What are the deep-down neuronal injuries when you have a bone spur that constricts a nerve that comes out of the spinal cord?”

The Anesthesiology Pain Research Laboratory is specially equipped to examine the bio-distribution of novel pain drugs, says Erin Milligan, PhD, an associate professor in the Department of Neuroscience. An animal is administered a candidate drug tagged with a radioisotope compound.

Its tissues are sectioned into ultra-thin 5-micron slices that are imaged and digitally stored. When these images are overlaid with a radioisotope image using special software, scientists can create a 3-D picture showing how much of the drug has been absorbed and where in the body it is concentrated.
It's a big step toward developing a competitive program in the hunt for non-opioid alternatives for pain relief, Milligan says. “We don't have anything in the Southwest like that. New Mexico would benefit tremendously from having a pain research center.”

This research traditionally has focused on nerve cells and how they communicate with one another, but Milligan is looking elsewhere. She is studying how, in chronic pain patients, pro-inflammatory immune cells flock from the site of an injury to portions of the spinal cord. “These regions in the spinal cord are critical to pain processing,” she says.

She is testing BIRT-377, a drug that could block immune cells from triggering the inflammation that drives chronic pain. That’s where Jeffrey Norenberg, PhD, comes in. A professor in the College of Pharmacy and an expert in pharmacodynamics, he has patented a radioisotope-tagged version of the drug.

Norenberg is excited by the new lab’s technical capabilities. “It’s the marriage of the equipment for collecting the slices to the software to the analysis that makes it state-of-the art,” he says. “You’re not going to see anything like this. That’s what makes it a very unique laboratory.”

In the new lab, he adds, “We can do noninvasive in vivo imaging using functional probes. We can also drill down to the tissue and even cellular level in this lab. There are certain questions you can only answer when you get into a complex system.”

The lab is available to other UNM faculty who are studying neuro-immune conditions, Milligan says. “They are very interested in dovetailing with Hugh’s lab. It’s going to be a very multidisciplinary research program.”

Meanwhile, the insights gained from collaborating with Martin and Norenberg help Milligan connect basic science research to patient needs, she says.

“We don’t want to be in an ivory tower,” she says. “We really want to be one step from the clinic, all the time. What are the practical clinical problems that are observed in your patients on a routine basis? Hugh’s clinical faculty tell me what’s practical, what’s not practical and what is desperately needed.”
“I am a woman on a mission,” Maria Yellow Horse Brave Heart says, recalling how a word of encouragement from an elder on the Standing Rock Sioux Reservation in North and South Dakota set her on the path to earning her PhD in clinical social work.

Decades later, Brave Heart, a research associate professor in the Department of Psychiatry and Behavioral Sciences, is working to help heal American Indians suffering from historical trauma arising from centuries of genocide.

She leads the Iwankapiya-Healing study. Funded by the National Institute of Mental Health, it compares a 12-week course of group interpersonal therapy (IPT) sessions with 12 sessions that combine IPT with the Historical Trauma and Unresolved Grief intervention that Brave Heart developed. The study takes place at a Northern Plains reservation and an urban Southwestern reservation outpatient behavioral health setting.

One example of historical trauma is the government policy, enforced as recently as the 1970s, of forcibly separating American Indian children from their parents and shipping them off to boarding schools. “In the Dakotas, the boarding schools were notoriously abusive or perceived as abusive by people,” says Brave Heart, who is Hunkpapa and Oglala Lakota. “What we do is talk about the impact of boarding schools on our people and the traumas that emerge from that.”

Exposure to multigenerational trauma leads to heightened risk for a laundry list of emotional problems, Brave Heart says. “PTSD, depression anxiety, difficulty sleeping – all of those kinds of things are framed in reaction to this massive group trauma and how it’s been passed on.” Addressing this trauma in a therapeutic setting “de-stigmatizes,” she says. “It communicates that you’re not alone in this.”

Participants come to realize that what they’re feeling isn’t their fault, she says. It also yields understanding – and perhaps forgiveness – for one’s parents, grandparents and great-grandparents. “People are more open to looking at what’s going on for them now.”
TIME AND TRAUMA
HOW EARLY LIFE STRESS RESHAPES THE BRAIN

“If you could have the biggest impact in the world,” asks Elaine Bearer, MD, PhD, “where would you start?”

Bearer, a professor in the Department of Pathology in the UNM School of Medicine, is answering that question by studying how childhood trauma affects the developing brain. Her research comes amid a virtual epidemic of violence against children.

In 2012, 686,000 American children were victims of maltreatment and more than 1,600 of them died from abuse and neglect, according to the U.S. Department of Health and Human Services.

In animal studies, Bearer showed that adverse experience can permanently affect emotional circuitry. This may result from epigenetic changes, in which gene expression is altered without affecting the inherited DNA sequence. These changes involve a biochemical process called DNA methylation.

Bearer’s study suggests persistent stress changes children’s brains. “Traumatic experience appears to induce changes in the epigenetic pattern of DNA methylation in the brain,” Bearer says.

Bearer focused on methylation of the serotonin transporter gene, extending this analysis to subsets of the 1 billion potential methylation sites in the human genome. Serotonin is a neurotransmitter that plays an important role in regulating emotion.

More than 25,000 methylation sites were significantly altered in children with autism, she found. Many of these changes could be detected in both saliva of living children and the post-mortem brains of children with autism.

“Eight percent of the altered methylation sites found in children correlated with altered sites in the brain,” Bearer says. “Saliva gives us a read-out of what’s happening in the brain.”

The changes indicated abnormal gene expression that could interfere with the development of a young brain.

With these promising findings, Bearer’s goal is to discover biomarkers that could help identify traumatized children early and channel them quickly into intervention programs. “I would like to find a way to heal these children,” she says.

Principal Investigator
Elaine L. Bearer, MD, PhD
Professor, Department of Pathology

Co-investigator
Julia Stephen, PhD
Adjunct Associate Professor, Department of Neurosciences

Grant Names
DNA Methylation in Translational Studies of Early Life Stress: A Feasibility Study; Live Imaging of Functional Circuitry in Mouse Models of PTSD

Grantor
National Institutes of Health/
National Institute of Mental Health and UNM CTSC
UNM Health Sciences Center researchers continually seek new cures and treatments to improve health and save lives.

One sign of their success is the number of patents they receive: UNM ranks 42nd in the world in number of patents issued, with UNM HSC accounting for a large part of the total.

What is often overlooked is the economic impact of that research, which has led to 38 new business startups in New Mexico over the past decade, creating new jobs and boosting the state’s economy.

The pace of UNM HSC-related business development has been picking up in recent years, with four new ventures being launched in FY 2015, says Elizabeth Kuuttila, president and CEO of STC.UNM, the non-profit corporation chartered by the Board of Regents to promote technology transfer on behalf of the university.

Albuquerque’s Exovita Biosciences is developing technology pioneered by Kristina Trujillo, PhD, research assistant professor in the Department of Cell Biology and Physiology, that uses exosomes — small, fluid-filled packets — to kill cancer cells without harming healthy cells.

New Mexico-based terraSOL is honing analytical software created by Glen Murata, MD, professor in the Department of Internal Medicine, to improve care for people with chronic diseases.

GHP Development, a Colorado company, has licensed a device developed by Mark Hauswald, MD, professor emeritus in the Department of Emergency Medicine, that allows emergency room patients to safely control how much narcotic pain medication they receive.

A new approach to automated flow cytometry is among several new UNM-developed technologies licensed to ieCrowd, a California biotech development group.

The average salary for employees of these companies is generous — in the $70,000 to $80,000 range, Kuuttila says. It doesn’t hurt that many of those hired by the firms were educated at UNM.

“It’s great for the economy,” she says, “and it’s great for our students, too.”
If you were a soldier, how likely would you be to trust the person next to you if you knew he or she had recently been in counseling? If ordered into combat under the command of an officer with an anger problem, would you feel better or more uneasy knowing it was serious enough for him or her to seek counseling?

“Our military forces are highly trained and we don’t want to lose them due to stress,” says Stephen Hernandez, PhD, RN, assistant professor in the UNM College of Nursing. “But traditionally, there has been a stigma to someone seeking out mental help.”

A major in the U.S. Air Force Reserve, Hernandez focuses on military service members’ perceptions of stigma and barriers to care associated with seeking mental health services.

An increasing number of research projects have addressed the issue in recent years, he said, but the well-being of medical caregivers themselves has been overlooked. How reluctant are they to seek services when they are overwhelmed, he wondered.

In 2012, Hernandez launched a study that focused on health care providers at multiple Air Force bases. It found officer nursing personnel were significantly more likely than enlisted staff to believe accessing mental health services would be embarrassing, harm their career or cause leaders to blame them for the problem.

Other barriers to seeking care included taking time off from work for treatment and scheduling appointments.

A followup study is already in place. Ultimately, Hernandez says, the goal is to identify effective interventions and decrease stress for medical personnel.
UNM Health Sciences Training Grants

UNM HSC supports training in the biomedical sciences at all levels, engaging students and faculty through outreach initiatives and innovative programs to enhance biomedical excellence. We are pleased to recognize the outstanding students and researchers from our campus who have successfully obtained funding from a National Institutes of Health Research Training and Research Career Development program. These highly competitive national awards help to grow our education and research missions to produce the next generation of diverse and highly qualified biomedical scientists across the spectrum of human health.

Mario Aragon, PhD Candidate
T32 Recipient, NIH/NHLBI
Vasomotor and endothelial barrier impacts of nanoparticulate-induced serum compositional alterations
Mentor: Matthew Campen, PhD

Seth Daly, PhD
T32 Recipient, NIH/NIAID
Anti-virulence strategies targeting Methicillin-resistant Staphylococcus aureus
Mentor: Pamela Hall, PhD

Nathan Bolanos
K05 Scholar, NIH/NCI
UV risk in childhood and melanoma later in life
Mentor: Marianne Berwick, PhD, MPH

Erica Dashner, PhD
K12 Scholar, NIH
Examining a role for zinc supplementation as a way to attenuate the negative effects of exposure to arsenic and uranium
Mentor: Laurie Hudson, PhD

Marianne Berwick, PhD, MPH
K05 Scholar, NIH/NCI
Melanoma Prevention: Using the Sun

Vanessa De La Rosa, PhD
K12 Scholar, NIH
Toxicogenomics and genotoxicity studies to determine how arsenic and uranium exposures among New Mexico Native Americans may lead to increased incidence of cancer and other diseases
Mentor: Jim Liu, PhD

Jonathan L. Brigman, PhD
K22 Scholar, NIH
Understanding the maladaptive behavioral changes that occur in alcohol abuse, drug addiction and numerous neuropsychiatric disorders

Dawn Delfín, PhD
KL2 Scholar, CTSC
Stem cell adhesion to the extracellular matrix of remodeled, failing hearts
Mentors: Matthew Campen, PhD; Carlos Roldan, MD

Alba A. Chavez-Dozal, PhD
K12 Scholar, NIH/NIGMS
Investigating the molecular pathogenesis of Candida albicans, including the role of secretory proteins in virulence and biofilm formation
Mentor: Samuel Lee, MD, PhD

Darrell Dinwiddie, PhD
KL2 Scholar, CTSC
GWAS characterization of viral outbreaks in children: genetic biomarkers of rare diseases
Mentors: Randall Heidenreich, MD; Scott Ness, PhD

Jayne M. Christen, PhD
K12 Scholar, NIH/NIGMS
Identification of potential vaccine candidates for infectious diseases using a virus-like particle display technology
Mentor: Bryce Chackerian, PhD

M. Frank Erasmus, PhD Candidate
F31 Recipient, NIH
Targeting the pre-BCR in precursor B acute lymphoblastic leukemia
Mentors: Bridget Wilson, PhD; Tudor Oprea, MD, PhD
Jon Femling, MD, PhD  
KL2 Scholar, CTSC  
Translating novel therapeutic pathways against Staphylococcus aureus pathogenesis into patients presenting to the emergency department  
Mentors: Cameron Crandall, MD; Patti Gravitt, PhD

Rubi Figueroa-Teran, PhD  
K12 Scholar, NIH/NIGMS  
Enzymatic biofuel cells for production of energy for biomedical applications  
Mentor: Plamen Atanassov, PhD

Brandi Fink, PhD  
KL2 Scholar, NIH/NCATS  
Neuropsychophysiological mediators of the association between alcohol use and intimate partner violence  
Mentors: Fernando Valenzuela, MD, PhD; Michael Bogenschutz, MD

Dallas Benjamin Flies, PhD  
T32 Recipient, NIH/NIAID  
Identification of biomarkers and development of immunotherapeutics for ovarian cancer  
Mentor: Sarah R. Adams, MD

Natalie Fredette, PhD Candidate  
T32 Recipient, NIH  
Role of G protein-coupled estrogen receptor in regulation of vascular endothelial and smooth muscle function  
Mentor: Eric Prossnitz, PhD

Matt Graus, MS  
T32 Recipient, NIH/NIAID  
Understanding how the fine-scale structures of the cell wall surface of Candida species fungal pathogens controls C-type lectin recruitment on innate immune cells, and how that affects the downstream immune response  
Mentor: Aaron K. Neumann, PhD

Anastacia Griego, PhD Candidate  
F31 Recipient, NIH/NCI  
Regulation of human papillomavirus replication via cell signaling pathways  
Mentor: Michelle A. Ozbun, PhD

Molly Harmon, PhD Candidate  
T32 Recipient, NIH  
Studying the prevalence and underlying mechanisms of metals-induced oxidation of LDL cholesterol and testing the circulating inflammatory potential in a Navajo community disproportionately affected by uranium mining  
Mentor: Matthew Campen, PhD, MSPH

Jennifer Hettema, PhD  
K23 Scholar, NIH  
Mentored research on improving alcohol brief interventions in medical settings

Joseph Hoover, PhD  
K12 Scholar, NIH/NIGMS  
Using public health, resource management and geographic information science to identify contaminated water and land resources on the Navajo Nation  
Mentor: Johnnye Lewis, PhD

Stephanie Jerman, PhD  
F31 Recipient, NIH  
OFD1 as constituent of a multimeric protein complex in odontoblast primary cilia  
Mentor: Angela Wandinger-Ness, PhD

Jaime Javier Juarez, PhD  
K12 Scholar, NIH  
Utilizing fabrication and optical interrogation techniques to improve flow cytometry particle detection at the nanoscale and at high speed  
Mentors: Andrew Shreve, PhD; Keith Lidke, PhD
Britta E. Lindquist, MD/PhD Candidate  
F31 Recipient, NIH/NINDS  
Studying how adenosine accumulation following spreading depolarization in ischemia contributes to progression of stroke injury  
Mentor: Bill Shuttleworth, PhD

Mary Beth Logue, Medical Student  
K05 Scholar, NIH/NCI  
Skin cancer risk behavior among Native Americans in New Mexico  
Mentor: Marianne Berwick, PhD, MPH

Lindsey Long, PhD  
K12 Scholar, NIH  
The role of histone modification in transcriptional regulation of yeast cell interconversion between quiescence and normal proliferative states and its relevance to stem cell behaviors and cancer  
Mentor: Mary Ann Osley, PhD

Christy Magcalas, PhD Candidate  
T32 Recipient, NIH/NIAAA  
How exposure to ethanol and ketamine during adolescence alters glutamatergic receptor function in the frontal cortex and related behavioral outcomes  
Mentor: Derek Hamilton, PhD

Kristopher D. Marjon, PhD  
T32 Recipient, NIH  
Mechanisms of hematopoietic stem/progenitor cell homing and cell adhesion to specific microenvironments  
Mentor: Jennifer Gillette, PhD

Kristin L. Marquardt, PhD Candidate  
T32 Recipient, NIH/NIAAA  
Understanding how prenatal alcohol exposure alters prefrontal cortex and striatal function by using a mouse model of moderate prenatal alcohol exposure paired with in vivo electrophysiology  
Mentor: Jonathan Brigman, PhD

Martha Martinez Grimes, PhD  
K12 Scholar, NIH  
Elucidating the pathogenicity of Candida albicans and determining how vacuolar ATPase contributes to infection and virulence  
Mentor: Karlett Parra, PhD

Levi Maston, MD/PhD Candidate  
F30 Recipient, NIH/NHLBI  
Investigating inflammatory mechanisms of that underlie the progression of pulmonary hypertension resulting from long-term exposure to hypoxia  
Mentors: Laura Gonzalez Bosc, PhD; Thomas Resta, PhD; Judy Cannon, PhD

Sowmya Murali, Medical Student  
K05 Scholar, NIH/NCI  
Risk factors for ulceration in melanoma  
Mentor: Marianne Berwick, PhD, MPH

Prashant Nighot, DVM, PhD  
K01 Scholar, NIH  
Inflammatory bowel disease

Sarah Pirio Richardson, MD  
KL2 Scholar, CTSC  
Using non-invasive transcranial magnetic stimulation, to improve symptoms and quality of life in patients with movement disorders  
Mentors: Bill Shuttleworth, PhD; Leslie Morrison, MD

Dominique Price, PhD Candidate  
T32 Recipient, NIH/NIAID  
Infectious disease, immunology, vaccines and tuberculosis  
Mentor: Pavan Muttil, PhD

Danielle Protas, PhD  
K12 Scholar, NIH  
The mechanisms of depolarization in spreading depression  
Mentor: Bill Shuttleworth, PhD

Anita L. Ray, PhD Candidate  
T32 Recipient  
The role of inflammation in colorectal cancer and potential immunotherapeutic targets  
Mentor: Ellen Beswick, PhD
**Katelyn Reinhart, PhD Candidate**
T32 Recipient, NIH
Spreading depolarization and the basic physiological mechanisms that contribute to the progression of brain injuries, including stroke
Mentor: Bill Shuttleworth, PhD

**Chelsea Saito-Reis, PhD Candidate**
T32 Recipient, NIH
Role of CD2 in regulating hematopoietic stem cell adhesion and signaling
Mentor: Jennifer Gillette, PhD

**Sabrina L. Samudio-Ruiz, PhD**
K01 Scholar, NIH
Alterations in gene expression, intracellular signaling pathways and DNA methylation associated with the development of platinum resistance in ovarian cancer

**Montaser Shaheen, MD**
K01 Scholar, NIH/NHLBI
The role of hPso4 in DNA repair and chemotherapy resistance
Mentor: Alan Tomkinson, PhD

**Joshua Sheak, MD/PhD Candidate**
T32 Recipient, NIH
Investigating the contribution of a novel intracellular signaling pathway to pulmonary hypertension in infants using an animal model of neonatal pulmonary hypertension
Mentor: Thomas Resta, PhD

**Laurie Steffen, PhD Candidate on Internship**
K05 Scholar, NIH/NCI
Late-stage lung cancer and coping
Mentor: Bruce Smith, PhD

**Christina Termini, PhD Candidate**
F31 Recipient, NIH
Identify the mechanisms and molecules that regulate hematopoietic stem/progenitor cell (HSPC) adhesion to the microenvironment to provide clinical targets to enhance HSPC transplantation therapies
Mentors: Jennifer Gillette, PhD; Angela Wandinger-Ness, PhD

**Lauren Topper, PhD Candidate**
T32 Recipient, NIH/NIAAA
Effects of developmental ethanol exposure on neuroinflammation
Mentor: C. Fernando Valenzuela, MD, PhD

**Christina R. Tyler, PhD**
F31 Recipient, NIH/NIMH
The epigenetic link between environmental exposure and adult-onset depression
Mentor: Andrea M. Allan, PhD

**Heather Ward, PhD**
K01 Scholar, NIH
Targeting fibrosis in polycystic kidney disease
Mentor: Angela Wandinger-Ness, PhD

**Sonlee West, MD**
KL2 Scholar, CTSC
Immune response to trauma
Mentors: Arup Das, MD, PhD; Carolyn Mold, PhD

**Kirsten White, PhD Candidate**
K05 Scholar, NIH/NCI
Autophagy and oncogene status in melanoma
Mentors: Marianne Berwick, PhD, MPH; Chien-An Hu, PhD

**Claire Wilcox, MD**
K23 Scholar, NIH
Neural mechanisms of change during the treatment of alcohol use disorders
Mentor: Michael Bogenschutz, MD

**Kayla R. Zehr, PhD Candidate**
T32 Recipient, NIH/NHLBI
How omega-3 polyunsaturated fatty acids mediate dilatory and antioxidant effects in the vasculature and protect blood vessels from xenobiotic-induced oxidative stress and dysfunction.
Mentor: Mary Walker, PhD

Unavailable for photos: Christopher Hughes; Jenna Lilyquist, PhD; John Pinner
Giving Life to Innovation

How Public-Private Partnerships Promote Biotechnology

Extramural Funding Sources

UNM HSC

Public/Private

UNIVERSITY of NEW MEXICO HEALTH SCIENCES CENTER
Public/Private

Private

Revenue

Licensing and Start-Up Funding

Growth and Payout

Broader Economic Development

Giving Life to Innovation

RESEARCH AWARDS

Millions $
2015 Excellence in Research Awards

Award recipients were recognized for their excellence in research in five categories:

Basic Science  Clinical Science  Junior Faculty  Population Science  Team Science
The Seventh Annual Research Day Awards Ceremony was held on October 29, 2015. For the Excellence in Research Awards, five colleagues were nominated by their peers and selected by a faculty committee for outstanding contributions in the categories of Basic Science, Clinical Science, Junior Faculty and Population Science. This year, a collaboration-focused award - Team Science - was added.

Vojo Deretic, PhD
Basic Science
Vojo Deretic pioneered the understanding of autophagy. “Cells actually have a process to cleanse their interiors that we did not know existed just a decade ago,” he says. His discoveries may lead to treatments for Crohn’s disease, HIV and tuberculosis, among others. “I am particularly proud of this award,” he says. “I’m thankful to our institution and environment here for allowing me to pursue my scientific endeavors to the fullest.”

Andrea Allan, PhD
Team Science
“Team-oriented science is fast becoming the norm,” says Andrea Allan. “With each of us bringing to a project our expertise, knowledge and curiosity, we broaden our perspective and strengthen our findings.” Allan has played a key role in more than a dozen programmatic initiatives and signature programs in the past decade. Echoing Sir Isaac Newton, she says, “One can see deeper by standing on the shoulders of giants.”

Mark Burge, MD
Clinical Science
Born into a family affected by diabetes (and contracting it himself in college), Mark Burge always knew he would one day study the disease. His research has focused on improving treatments for Type 1 and 2 diabetes since he joined the faculty in 1993. “Everything I’ve learned about research and scholarly achievement comes from a small community of phenomenally accomplished academic clinical researchers at UNM,” he says.

Ludmila Bakhireva, PhD, MD, MPH
Population Science
Ludmila Bakhireva works to minimize health disparities among vulnerable populations. She has identified biomarkers of prenatal alcohol exposure and is studying the combined effects of alcohol, arsenic and uranium exposure on Navajo children. “These patients genuinely want to contribute to research,” she says. “They see it as an opportunity for change, to have their stories heard, to help their child and to make a contribution to their community.”

Jennifer Gillette, PhD
Junior Faculty
Jennifer Gillette has focused on bone marrow engraftment and homing of stem cells mediated by CD82 in the short time since she joined UNM in 2010. She is developing translational approaches to expand her research program by partnering with and mentoring clinician scientists. “I attribute much of my success to the talent, hard work and dedication of the trainees with whom I’ve been privileged to work,” she says.
BY THE NUMBERS

UNM HSC RESEARCH 2015

1,178
Total full-time faculty

306
Principal investigators extramurally funded

85
Community research sites in New Mexico

1 of 29
National institutions with both a Clinical and Translational Science Award and a Cancer Center with NCI Comprehensive Designation

38
Business startups over 10 years

849
Proposals awarded

$160,753,570
Total awards in FY 2015
CHANCELLOR FOR HEALTH SCIENCES

RICHARD LARSON
UNM Foundation .................................................. $477,944
Private Gifts for Research

UNM Foundation .................................................. $351,435
Private Gifts for Research

UNM Foundation .................................................. $317,472
Private Gifts for Research

UNM Foundation .................................................. $245,542
Private Gifts for Research

Financial Aid

MARY FENTON
HHS/Health Resources and Services Administration ........................ $650,000
ACA-Scholarship for Disadvantaged Students - Allopathic Medicine

HHS/Health Resources and Services Administration ........................ $206,496
ACA-Scholarship for Disadvantaged Students - Medical Laboratory Science

HEALTH SCIENCES LIBRARY AND INFORMATICS CENTER

ANDRAS AMBRUS
NIH/National Library of Medicine .................................. $700
Professional Development Award - Bioinformatics Classes

PATRICIA BRADLEY
Center for Public Service Communications .......................... $20,000
Native Voices Community Outreach

NIH/National Library of Medicine .................................. $15,000
Maintaining the Health Information Network for New Mexico (Outreach)

GALE HANNIGAN
National Network of Libraries of Medicine ............................ $8,000
Ps (Partners) for PODS: Engaging School Libraries in Points of Dispensing Disaster Preparedness Activities

PHILIP KROTH
HHS/Agency for Healthcare Research and Quality .................... $193,326
Minimizing Stress, Maximizing Success of Physician's Use of Health Information and Communications Technologies

OFFICE OF RESEARCH

RICHARD LARSON
Lovelace Respiratory Research Institute ................................ $48,957
BSGP Administrative Support Agreement

Biomedical Research Educational Program

RICHARD LARSON
Lovelace Respiratory Research Institute ................................ $72,727
BSGP Fellowship Agreement

Lovelace Respiratory Research Institute ................................ $38,355
BSGP Fellowship Support

CLINICAL & TRANSLATIONAL SCIENCE CENTER

MARK BURGE
National Institutes of Health ......................................... $10,514
Iron-Induced Oxidative Stress and Mitochondrial Dysfunction: Effects on Insulin Secretion and Insulin Sensitivity

DAWN DELFIN
American Heart Association ....................................... $140,000
Stem Cell Adherence to the ECM of Remodeled Heart

JON KENNETH FEMLING
Emergency Medicine Foundation ...................................... $50,000
Translating Quorum Sensing Inhibitions to Human S. Aureus Infections

ALBERTA KONG
NIH/National Heart, Lung, and Blood Institute ....................... $715,619
ACTION PAC: Adolescents Committed to Improvement of Nutrition & Physical Activity

RICHARD LARSON
NIH/National Center for Advancing Translational Sciences ...... $4,941,544
UNM Clinical & Translational Science Center*

NIH/National Institute of General Medical Science ............... $774,307
Clinical and Translational Research Infrastructure Network IDeA-CTR/CRDEB

National Institutes of Health ........................................ $129,960
UNM Clinical & Translational Science Center - Supplement

NIH/National Center for Advancing Translational Sciences ...... $111,529
Enhancing Clinical Research Professionals’ Training and Qualifications

SONLEE DENISE WEST
Bio2 Medical ...................................................... $152,714
Clinical Trial Agreement (Device)

ROBERT WILLIAMS
National Institutes of Health ........................................ $300,241
ACA-NM CARES HD - Pilot Research Projects

COLLEGE OF NURSING

BLAKE BOURSAW
New Mexico Higher Education Department .......................... $13,836
Performance-Based Funding Metrics for Higher Education: The Case of New Mexico in FY 17

* initiated in FY14 and continued in FY15 and part of FY16
### SALLY COHEN
American Academy of Nursing ................................................... $90,000
IOM-AAN, ANA, ANF Distinguished Nurse Scholar in Residence

### EMILY HAOZOUS
Feinstein Kean Healthcare .......................................................... $14,500
Study of Trinity Radiation Doses and Cancer Risks Resulting from 1945 "Trinity" Atomic Weapon Test

Social & Scientific Systems ......................................................... $10,610
Study of Trinity Radiation Doses and Cancer Risks

Feinstein Kean Healthcare .......................................................... $6,000
Study of Trinity Radiation Doses and Cancer Risks

Spirit of EAGLES ............................................................................ $2,500
Hampton Faculty Fellows Program Cohort II

### STEPHEN HERNANDEZ
Uniformed Services University of the Health Sciences ......................... $99,384
Stress, Resilience, Stigma & Barriers to Mental Health Care Among Air Force Nursing Personnel

### SHANA (SUZANNE) MARIE JUDGE
Robert Wood Johnson Foundation ................................................ $1,278,913
Nursing and Health Policy Collaborative at UNM

### AMY JO LEVI
HHS/Health Resources and Services Administration ........................ $350,000
ACA-Advanced Education Nursing Traineeships

HHS/Health Resources and Services Administration ........................ $350,000
ACA-Advanced Education Nursing Traineeships

HRSA/Bureau of Primary Health Care ........................................ $52,261
ACA-Nurse Faculty Loan Program (NFLP) FY 16

University of California, San Francisco ........................................ $12,272
Early Pregnancy Loss

### JUDY LIESVLD
Robert Wood Johnson Foundation .................................................. $300,000
Academic Progression in Nursing

New Mexico Board of Nursing .................................................... $158,771
New Mexico Nursing Education Statewide Planning

### NANCY MORTON
New Mexico VA Health Care System ........................................... $436,561
VA Nursing Academic Partnerships IPA: Marisa Francis (Years 2-4)

New Mexico VA Health Care System ........................................... $399,406
VA Nursing Academic Partnerships IPA: Kimberly Madden

### BARBARA ANN OVERMAN
El Pueblo Health Services ............................................................ $5,784
El Pueblo Health Services

### NANCY RIDENOUR
City of Albuquerque ................................................................. $133,000
Health Services Coordination

City of Albuquerque ................................................................. $67,000
Geriatric Education and Health Maintenance Clinic

### STEPHEN VAN ROPER
ACE Leadership High School ....................................................... $58,319
The Board of Architecture, Construction, and Engineering Leadership High School

ABQ Health Partners LLC .......................................................... $54,870
ABQ Health Partners Contract - BAA

First Nations Community Healthsource, Inc ................................ $52,171
First Nations Community Healthsource, Inc. Service Agreement

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### COLLEGE OF PHARMACY

### JOE ANDERSON
New Mexico Department of Health ........................................... $30,004
Health Systems Data Management and Use of Team-Based Health Care

### LUDLILA BAKHIREVA
NIH/National Institute on Alcohol Abuse and Alcoholism .................... $569,811
Early Indices of Atypical Neurodevelopment with Fetal Alcohol Exposure

University of California, San Diego .............................................. $48,000
Organization of Teratology Information Specialists Research Network

Texas Department of Health ....................................................... $24,000
Texas Office of Prevention of Development Disabilities

### SCOTT BURCHIEL
NIH/National Institute of Environmental Health Sciences ..................... $729,080
Synergistic Immunosuppression by PAHs and Arsenite

### MATTHEW CAMPEN
NIH/National Institute of Environmental Health Sciences ..................... $362,313
Enhancement of Coronary Constriction by Volatile Organic Air Toxics

National Institutes of Health ...................................................... $75,500
Chronic Particulate Matter Exposure, Inflammation and Atherogenesis in At-Risk Children

University of Washington ......................................................... $39,405
Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions

University of Washington ......................................................... $39,405
Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions

### CATHERINE CONE
Sandia Staffing Alliance ......................................................... $26,641
Sandia National Laboratories Clinic - BAA

### ESZTER ERDEI
Black Hills Center for American Indian Health ................................ $111,167
Complex Metal Exposure and Immune Status on the Cheyenne River

### LARRY GEORGOPOULOS
New Mexico Heart Institute ....................................................... $250,000
Radiopharmaceutical Goods and Services

UNM Medical Group ............................................................... $100,000
Molina Telephonic MTM Agreement
Larry Georgopoulos (continued)

ABQ Health Partners LLC ............................................ $90,000
ABQ Health Partners - Radiopharmaceutical Products
Cardiac Care Consultants of New Mexico ......................... $90,000
Professional Services Agreement - Cardiac Care Consultants
First Choice Community Healthcare ................................ $81,060
Pharmacist Consultant Agreement - BAA
Translational Radiopharmacy ........................................ $60,000
Preparation of 90Y-SirSpheres
New Mexico Health Connections .................................... $18,000
New Mexico Health Connections Contract Review and Consultation
First Nations Community Healthsource, Inc ...................... $2,500
First Nations Community Healthsource

Pamela Hall
NIH/National Institute of Allergy and Infectious Diseases ........ $397,470
Apolipoprotein B and Control of S. Aureus Quorum Sensing
NIH/National Institute of Allergy and Infectious Diseases ........ $226,500
VLP-Based Vaccines for Targeting Staphylococcus aureus-Secreted Virulence Factors
Sandia National Laboratories ....................................... $45,300
Optimization of Mesoporous Silica Nanoparticle-Supported Lipid Bilayers (‘Protocells’) for In Vivo Delivery of Antibiotic Compounds

Ajna Hamidovic
NIH/National Institutes of Health .................................... $75,500
Intranasal Insulin Treatment for Weight Management During Smoking Cessation

Laurie Hudson
NIH/National Institutes of Health .................................... $386,049
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins
NIH/National Institutes of Health .................................... $313,325
Zinc Chemoprevention of Arsenic Co-Carcinogenesis

Johnnye Lewis
HHS/Centers for Disease Control and Prevention ................. $1,000,000
ACA-A Prospective Birth Cohort Study Involving Uranium Exposure in the Navajo Nation
HHS/Centers for Disease Control and Prevention ................. $360,000
Navajo Birth Cohort Study (Mother/Infant Supplement)
National Institutes of Health ....................................... $156,241
Wood Stove Interventions and Child Respiratory Infections in Rural Communities

Jim Liu
NIH/National Institute of Environmental Health Sciences ........ $339,750
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins
NIH/National Institute on Drug Abuse .............................. $187,425
Methamphetamine-Induced Alterations in Brain Tissue Oxygenation
National Institutes of Health ........................................ $52,370
Particulate Cr(VI) Toxicology in Human Lung Epithelial Cells and Fibroblasts
Massachusetts General Hospital .................................... $10,000
General Anesthesia and Alzheimer’s Disease Neuropathogenesis
National Institutes of Health ........................................ $9,062
Particulate Cr(VI) Toxicology in Human Lung Epithelial Cells and Fibroblasts

Renee-Claude Mercier
TriCore Reference Laboratories ................................. $54,094
Pharmacy Residency Affiliation Agreement
International Health Management Associates, Inc .................. $2,650
Evaluation of Ceftazidime Avibactam

Pavan Muttil
Sandia National Laboratories ....................................... $100,000
NATV DTRA

Jeffrey Norenberg
inviCRO ............................................................. $61,856
Task 31: PK/Biodistribution Study
inviCRO ............................................................. $29,000
Task 32: Plasma Pharmacokinetic Testing Study

Dennis Raisch
National Institutes of Health ........................................ $30,000
Southern Oncology Network on Adverse Reactions (SONAR)

Sabrina Samudio-Ruiz
NIH/National Cancer Institute .................................... $129,216
EGF Receptor, DNA Methylation and Platinum Resistance in Ovarian Cancer

Susan Smolinske
Denver Health and Hospital Authority ......................... $18,623
RADARS System Work Order #1
Denver Health and Hospital Authority ......................... $1,562
RADARS System Work Order #2
Denver Health and Hospital Authority ......................... $1,562
RADARS System Work Order #3

Graham Timmins
NIH/National Institute of Allergy and Infectious Diseases ........ $188,750
Pyrazinamide Breath Test for TB
Johnson & Johnson .............................................. $6,938
An Initial Analysis of MPF Methodology for Sunscreen Assessment

Mary Walker
American Heart Association .................................... $140,000
Cytochrome P4501A1 and Endothelial Dysfunction

Carla Walraven
Durata Therapeutics, Inc ........................................ $7,500
Acute Bacterial Skin and Skin Practice Pattern Assessment Project - Site 102
Durata Therapeutics, Inc ........................................ $7,500
Acute Bacterial Skin and Skin Practice Pattern Assessment Project - Site 102
Traci White
Mesilla Valley Hospice ............................................ $35,152
Mesilla Valley Hospice Pharmacists Clinician Agreement

Kristina Wittstrom
Sandia National Laboratories ...................................... $2,100
SNL Isotope Request - PRN Services

Poison Control

Susan Smolinske
HHS/Health Resources and Services Administration ........... $115,158
Poison Control Stabilization And Enhancement Program

SCHOOL OF MEDICINE

David Pitcher
New Mexico Department of Health ................................ $1,125,355
Sustain Level I Trauma Center Designation & Improve Financial Viability of Trauma Services

New Mexico Department of Health ................................ $1,125,355
Sustain Level I Trauma Center Designation & Improve Financial Viability of Trauma Services

Michael Richards
New Mexico Department of Health ............................... $140,450
Locum Tenens Services for Turquoise Lodge Hospital

New Mexico Department of Health ............................... $50,000
Locum Tenens Services for Turquoise Lodge Hospital

New Mexico Department of Health ............................... $50,000
Psychiatric Services for New Mexico Behavioral Health Institute Patients

Anesthesiology

Eugene Koshkin
Boston Scientific Corporation ....................................... $15,000
UNM Pain Medicine Fellowship

Medtronic ............................................................ $15,000
UNM Pain Medicine Fellowship

St. Jude Medical ....................................................... $15,000
UNM Pain Medicine Fellowship

Jonathan Marinaro
Kindred Hospital (Transitional Hospitals Corp. of NM) ............... $64,800
Medical Director

Isaac Tawil
DCI Donor Services ................................................ $8,240
Medical Director Services

Biochemistry and Molecular Biology

Natalie Adolphi
Sandia National Laboratories .................................... $170,000
Biodistribution of Mesoporous Silica Nanoparticle-Supported Lipid Bilayer Platform

Jeffrey Griffith
National Institutes of Health ....................................... $686,030
New Mexico IDeA Networks of Biomedical Research Excellence

National Institutes of Health ....................................... $62,697
New Mexico IDeA Networks of Biomedical Research Excellence

Chien-An Andy Hu
Children’s National Medical Center ............................... $10,117
Role of Cytokines and APOL-1 in the Pathogenesis of Childhood HIV Associated Nephropathy

Meilian Liu
American Heart Association ........................................ $140,000
mTORC1 and Autophagy in Human Brown Adipocytes

American Diabetes Association, Inc. ............................ $124,200
The Role of DsbA-L in Regulating Liver Mitochondria Function and Insulin Sensitivity

Kristina Trujillo
NH/National Cancer Institute ...................................... $345,413
Is Tumor-Adjacent Histologically Normal Tissue Primed for Tumorigenesis Through the TGF(beta) Pathway?

ExoVita BioSciences ................................................ $24,443
Development of Exosomes from Field-Cancerized Fibroblasts as a Cancer Therapeutic

Brain and Behavioral Health Institute

Claude Shuttleworth
Patient-Centered Outcomes Research Institute ................ $123,965
ACA-Pathways to Partnership: Communication and Collaboration Skills for Creating PCORI Teams

Robert Thoma
New Mexico Governor’s Commission on Disability ............... $50,000
Brain Injury Study on the Veteran Population of New Mexico

John Weaver
Eastern New Mexico University .................................... $8,500
Vascular Mechanisms of Oxidative Stress and Insulin Regulation in Metabolic Syndrome

Yirong Yang
Lovelace Respiratory Research Institute ........................ $3,600
Exploration of Potential Neuroprotective Effects of Ketamine in Rodents Exposed to Organophosphates

Yirong Yang
Lovelace Respiratory Research Institute ........................ $1,500
Exploration of Potential Neuroprotective Effects of Ketamine in Rodents Exposed to Organophosphates
Cancer Research and Treatment Center

Sarah Adams
Ovarian Cancer Research Fund, Inc. ........................................ $200,000
A Combination Therapy for Hereditary Ovarian Cancer
Oxnard Foundation ............................................................. $80,000
Targeting DNA Repair Pathways to Sensitize Ovarian Tumors to Immune Therapy
Phi Beta Psi Charity Trust .................................................. $54,130
IL 10 Blockade to Restrict Intrapertoneal Ovarian Cancer Metastasis

Cecilia Arana Yi
New Mexico Cancer Care Alliance ........................................ $100,956
Clinical Trial Agreement - Phase 3
New Mexico Cancer Care Alliance ........................................ $100,557
Clinical Trial Agreement - Phase 2
New Mexico Cancer Care Alliance ........................................ $86,445
Clinical Trial Agreement - Phase 1
New Mexico Cancer Care Alliance ........................................ $85,244
Clinical Trial Subaward - Phase 2
New Mexico Cancer Care Alliance ........................................ $85,103
Clinical Trial Agreements - Phase 3
New Mexico Cancer Care Alliance ........................................ $54,240
Clinical Trial Agreements - Phase 3 (2099)

Wadih Arap
NIH/National Heart, Lung and Blood Institute .......................... $366,250
Regulation of the Paracrine Angiogenic Function of Cardiac Myocytes by Cardiomyocyte PDGFR-a

Marianne Berwick
Memorial Sloan Kettering Cancer Center ............................... $244,632
Personalized Genomic Testing for Melanoma: Maximizing Personal Utility and Research
NIH/National Cancer Institute .............................................. $156,292
Melanoma Prevention: Using the Sun

Ursa Brown-Glaberman
New Mexico Cancer Care Alliance ........................................ $135,446
Clinical Trial Subaward - Phase 3
New Mexico Cancer Care Alliance ........................................ $133,889
Clinical Trial - Phase 3
New Mexico Cancer Care Alliance ........................................ $96,000
Clinical Trial Subaward - Phase 2
New Mexico Cancer Care Alliance ........................................ $95,727
Clinical Trial Agreement - Phase 2

Linda Sue Cook
NIH/National Cancer Institute .............................................. $505,309
Mitochondrial DNA and Ovarian Cancer Risk and Survival

Barbara Damron
Consulate of Mexico in Albuquerque ..................................... $36,000
Ventanilla de Salud Program
New Mexico Department of Health .................................... $5,800
Master Services Agreement for Native American Cancer Education Project 2014

Steven Eberhardt
ECOG-ACRIN Cancer Research Group ................................. $76,800
ECOG ACRIN (non-federal)
ECOG-ACRIN Cancer Research Group ................................. $75,300
ECOG ACRIN (federal)

Gregory Gan
Radiological Society of North America ................................ $152,000
Mechanisms of Hedgehog Pathway-Mediated Head and Neck Cancer Radio-Resistance
New Mexico Cancer Care Alliance ..................................... $78,447
Clinical Trial Agreement - Phase 2
New Mexico Cancer Care Alliance ..................................... $74,609
Clinical Trial Subaward - Phase 1

Deirdre Hill
NIH/National Cancer Institute .............................................. $75,500
Biomarkers of Tumor Initiation in Breast Cancer
Group Health Research Institute ......................................... $35,607
Risk-Based Breast Cancer Screening in Community Settings

Richard Hoffman
National Institutes of Health ............................................... $10,721
Treatment Decisions and Patient-Reported Outcomes in Low-Risk Prostate Cancer

Huining Kang
Gabrielle’s Angel Foundation .............................................. $10,000
Statistical Methods for Evaluating Cancer Biomarkers

Anita Kinney
National Institutes of Health ............................................... $10,076
Health and Socioeconomic Outcomes for Survivors of Adolescent and Young Adult Cancer
Nancy Floyd Haworth Foundation ....................................... $4,200
Culturally Sensitive Hereditary Breast Cancer Genomic Risk Communication for Hispanic Women

Richard Lauer
New Mexico Cancer Care Alliance ..................................... $96,260
Clinical Trial Subaward - Phase 2
New Mexico Cancer Care Alliance ..................................... $93,391
Clinical Trial Agreement - Phase 2

Fa-Chyi Lee
New Mexico Cancer Care Alliance ..................................... $44,201
Clinical Trial Agreement - Phase 3

Yu-Shen Lin
Sandia National Laboratories .............................................. $30,000
Synthesis of Mono-sized Silica Nanoparticles

Carolyn Muller
NRG Oncology .................................................................. $312,773
NRG (NSABP, RTOG, GOG) (Non-Federal Part)
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- Clinical Trial Agreement - Phase 2: $84,364
- Clinical Trial Agreement - Phase 2: $82,055
- Clinical Trial Agreement - Phase 2: $80,374

Montaser Shaheen
- New Mexico Cancer Care Alliance: $97,579
- Clinical Trial Subaward - Phase 1/2: $15,000

Larry Sklar
- NIH/National Cancer Institute: $230,094
- Novel DNA Double Stand Break Repair Targeting Therapeutics for Cancer Treatment

Alan Tomkinson
- NIH/National Institute of General Medical Sciences: $280,000
- Roles of DNA Ligase 1 in Mammalian DNA Metabolism
- NIH/National Institute of General Medical Sciences: $238,580
- Cellular Functions of Eukaryotic DNA Ligases
- Lawrence Berkeley National Laboratory: $86,807
- Structural Cell Biology of DNA Repair Machines Project
- NIH/National Institute on Aging: $29,000
- Fifth US-EU Conference on Repair of Endogenous DNA Damage

Cheryl Willman
- NIH/National Cancer Institute: $1,876,081
- UNM Cancer Center Support Grant
- Memorial Medical Center: $1,356,618
- Professional Services
- NIH/National Cancer Institute: $575,377
- Molecular Signatures for Outcome Prediction & Therapeutic Targeting in ALL
- NIH/National Cancer Institute: $559,590
- Molecular Signatures for Outcome Prediction & Therapeutic Targeting in ALL
- NIH/National Cancer Institute: $322,235
- Peptide-Directed Protocells and Virus-like Particles: New Nanoparticle Platforms for Targeted Cellular Delivery of Multicomponent Cargos
- New York University: $211,307
- Targeted Nanotherapeutics for Acute Lymphoblastic Leukemia Therapy
CHERYL WILLMAN (CONTINUED)
NIH/National Cancer Institute ........................................... $125,000
UNMC Cancer Center Support - Community Outreach Capacity Through
Community Health Education of National Outreach Network (Supplement #3)

NIH/National Cancer Institute ........................................... $113,250
Cancer Center Support Grant - CURE High School and Undergraduate Student
Research Experiences (Supplement #2)

Children’s Hospital of Philadelphia ................................... $99,196
Testing Targeted Therapy in Philadelphia Chromosome-Like (Ph-like) ALL

NIH/National Cancer Institute ........................................... $75,000
UNMC Cancer Center Support Grant - CTRP Supplement 2014 (Supplement #1)

New York University ..................................................... $61,080
Supplemental Award to LLS SCOR

NIH/National Cancer Institute ........................................... $50,000
UNMC Cancer Center Support Grant - Cancer Clinical Investigator Team Leadership
Award (Supplement #4)

University of Colorado - Denver ........................................ $37,831
Testing Targeted Therapy in Philadelphia Chromosome-Like (Ph-like) ALL

Albuquerque Area Indian Health Service ............................... $25,000
IHS Oncology Diagnostic and Therapeutic Services Agreement

Albuquerque Area Indian Health Service ............................... $25,000
IHS Oncology Diagnostic and Therapeutic Services Agreement

Montefiore Medical Center .............................................. $19,719
Detection and Characterization of Ph-Like ALL in the E1910 Study

Montefiore Medical Center .............................................. $19,719
Detection and Characterization of Ph-Like ALL in the E1910 Study

BRIDGET WILSON
NIH/National Institutes of General Medical Sciences ................ $2,491,967
Center for the Spatiotemporal Modeling of Cell Signaling

Cell Biology and Physiology

OSCAR BIZZZERO
NIH/National Institute of Neurological Disorders and Stroke ........ $186,862
Cellular, Molecular and Functional Characterization of Proteasomes in EAE

LAURA GONZALEZ BOSC
American Heart Association .............................................. $140,000
Adaptive Immunity in Pulmonary Hypertension

HELEN HATHAWAY
NIH/National Heart, Lung, and Blood Institute ....................... $371,837
Vascular Smooth Muscle Function in Pulmonary Hypertension

NIKKI JERNIGAN
NIH/National Heart, Lung, and Blood Institute ....................... $371,837
Vascular Smooth Muscle Function in Pulmonary Hypertension

NANCY KANAGY
NIH/National Heart, Lung, and Blood Institute ....................... $377,500
Hydrogen Sulfide Regulation of Vascular Tone and Blood Pressure

Dialysis Clinic, Inc ..................................................... $372,900
Simulated Sleep Apnea Effects on Renal Function and
Blood Pressure in CKD Model

American Heart Association (Western States Affiliate) ............ $140,000
Impaired Hydrogen Sulfide-Induced Vasodilation in Hypertension

Exhalix, LLC ......................................................... $64,936
Transdermal H2S-Sensing Device for Monitoring Peripheral Artery Disease

ERIC PROSSNITZ
NIH/National Cancer Institute ........................................... $313,325
G Protein-Coupled Estrogen Receptor and Breast Carcinogenesis

THOMAS RESTA
NIH/National Heart, Lung, and Blood Institute ....................... $31,304
The Role of Adaptive Immunity in Chronic Hypoxia-Induced
Pulmonary Hypertension

BENJIMEN WALKER
American Heart Association .............................................. $140,000
Regulation of Endothelial BK Channels in Chronic Hypoxia

NIH/National Heart, Lung, and Blood Institute ....................... $124,917
Minority Institutional Research Training Program

Center for Infectious Disease and Immunity

JULIE LOVCHEK
Pulmokine, Inc ......................................................... $44,068
An Inhaled Dry Powder Formulation for Multi-Drug-Resistant Tuberculosis

MICHELLE OZBUN
NIH/National Institute of Allergy and Infectious Diseases .......... $271,197
Biology of Infectious Disease and Inflammation

TERRY WU
DOD/Defense Threat Reduction Agency ................................ $344,725
Evaluation of Novel Subunit Tularemia Vaccines in Rat & Non-Human Primate
Aerosol Infection Models

Sandia National Laboratories ............................................ $43,571
Mesoporous Nanoparticle Biodistribution and Efficacy Studies

GlaxoSmithKline ....................................................... $29,034
PK Study of GSK944 in Fischer 344 Rats

Sandia National Laboratories ............................................ $28,850
Mesoporous Nanoparticle Biodistribution and Efficacy Studies

GlaxoSmithKline ....................................................... $27,634
PK Study of GSK944 in Fischer 344 Rats

GlaxoSmithKline ....................................................... $19,242
PK Study of GSK944 in Fischer 344 Rats

Continuing Medical Education

WILLIAM RAYBURN
Sunovion Pharmaceuticals Inc ........................................... $178,900
PeerView inReview: Conversation from Polytherapy to Monotherapy and its
Viability in the Partial Onset Seizure Setting
AbbVie ........................................................... $142,150
PeerView inReview: Improving the Management of Endometriosis: Assessing the Standard of Care and Looking Ahead to New Treatment Options

Celgene Corporation ................................................ $95,000
PeerView inExchange: A Multiple Myeloma Roundtable: Making Sense of New Evidence for Patient Management

Novartis ............................................................ $55,000
Moderate to Severe Psoriasis for the Dermatologist

Novartis ............................................................ $55,000
Therapeutic Strategies in Psoriatic Arthritis: Focus on New Agents

Lilly USA, LLC. ...................................................... $53,000
Moderate to Severe Psoriasis for the Dermatologist

Celgene Corporation ................................................ $50,000
PeerView inReview, What’s Now, What’s Next: Individualizing the Treatment of Patients with Moderate to Severe Psoriasis for the Dermatologist

Onyx Pharmaceuticals, Inc. ........................................ $50,000
A Multiple Myeloma Roundtable

Abbott Laboratories Inc............................................. $10,000
Nutrition and Aging: From Cells to Body Systems and Populations

Northern Navajo Medical Center .................................. $1,580
ALSO Course Payment Purchase Order

Dental Medicine

GARY CUTTRELL
New Mexico Higher Education Department $1,000,000
UNM Dental Residency Program

New Mexico Higher Education Department $1,000,000
UNM Dental Residency Program

Community Dental Services $6,918
Community Dental Services

VICKI GIANOPOULOS
HRSA/Office of Rural Health Policy $500,000
Special Needs Dental Residency Training Program

CHARLES TATLOCK
New Mexico Department of Health $242,650
Basic Oral Health Services

Dermatology

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

ECHO Institute

SANJEEV ARORA
GE Foundation $3,000,000
Leveraging the ECHO Model to Improve Quality in FQHCs and Transform the US Healthcare System (Year 1)

Centers for Medicare and Medicaid Services $2,419,027
ACA-Leverage Innovative Care and Coordination Model: Project ECHO

New Mexico Department of Health $499,925
UNM HSC Innovations in Telehealth

Elizabeth Glaser Pediatric AIDS Foundation $369,985
Implementing Project ECHO to Build Namibian National Capacity to Mentor and Train Providers

GE Foundation ..................................................... $150,000
Project ECHO Developing a Practice Transformation Network to Improve Quality in FQHC's Planning Grant

Seattle Indian Health Board ........................................ $150,000
Supporting the Enhanced Implementation of Health and Wellness

American Academy of Pediatrics ................................ $136,988
Enhancing Child and Youth Epilepsy Care via the ECHO Model (FY 15)

American Academy of Pediatrics ................................ $127,000
ECHO AAP Epilepsy Expansion

New Mexico Department of Health ................................ $120,270
Hepatitis and HIV Clinical Consultant Project

New Mexico Department of Health ................................ $120,270
Hepatitis and HIV Clinical Consultant Project

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

McCune Charitable Foundation .................................. $50,000
ECHO Community Health Worker Initiative

Blue Cross Blue Shield of NM ..................................... $26,693
Supporting New Mexico Clinical Sites’ Participation in Project ECHO

University of California, San Francisco ......................... $25,000
Smoking Cessation Leadership Center Collaboration - Justice-Involved Peer Educators

CDC Foundation ..................................................... $21,550
Project ECHO: Expanding Prevention, Care and Treatment Capacity and Reducing Health Care Costs for Hepatitis C and Other Complex Diseases

MIRIAM KAMAROMY
The EMMES Corporation $199,603
Clinical Coordinating Center for the NIDA Center for the Clinical Trials Network

Emergency Medicine

JUSTIN BACA
National Institutes of Health $75,500
Point-of-Care Tumor Marker Detection for Germ Cell and Epithelial Ovarian

LAURA BANKS
New Mexico Department of Transportation $200,000
Pedestrian Safety Initiative
**LAURA BANKS (CONTINUED)**

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**JOY CROOK**

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**ANDREW HARRELL**

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**STEVEN McLAUGHLIN**

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<td><strong>Michaela Dell’Orco, MS</strong></td>
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**Martha Martinez-Grimes, PhD**
POPE MOSELEY
Albuquerque Area Indian Health Service ........................................ $87,488
IHS Specialty Services
University of Copenhagen .......................................................... $42,090
Professional Services Agreement
Zenith Administrators ............................................................... $25,000
Outpatient Professional Services
Zenith Administrators ............................................................... $25,000
Outpatient Professional Services - BAA
QTC Medical Group ................................................................. $10,750
Second Medical Opinion Evaluations

ORKIN MYERS
National Institutes of Health ...................................................... $22,497
Geographic and Multilevel Influences of Neighborhood and School Environments on the Development of Obesity Among Children in a Border Community

PRASHANT NIGHOT
National Institute of Diabetes and Digestive and Kidney Diseases .... $147,916
Role of the Chloride Channel CIC-2 in Intestinal Tight Junction Barrier Recovery

TUDOR OPREA
NIH/National Cancer Institute ...................................................... $1,801,454
Illuminating the Druggable Genome - The Knowledge Management Center
University of Gothenburg .......................................................... $25,000
Visiting Scientist Agreement
National Institutes of Health ....................................................... $11,665
Structural and Functional Analysis of Glucose Transporters

KIMBERLY PAGE
NIH/National Institute of Drug Abuse ........................................... $1,332,959
Acute Hepatitis C Infection in Young Injectors
NIH/National Institute of Drug Abuse .......................................... $884,605
Sexually Transmitted Infections Clinical Trials Group
National Institutes of Health ....................................................... $457,155
Inc3: International Collaborative of Prospective Studies of HIV and Hepatitis in IDU
National Institutes of Health ....................................................... $386,153
Inc3: International Collaborative of Prospective Studies of HIV and Hepatitis in IDU
Centers for Disease Control and Prevention ................................ $299,973
Epidemiology, Prevention and Treatment of HCV in Young Adult Persons who Inject Drugs in Non-Urban New Mexico (Hepatitis-TIPS)
National Institutes of Health ....................................................... $119,766
Acute Hepatitis C Infection in Young Injectors (Restricted Supplement for AIDS)
National Institutes of Health ....................................................... $104,000
Sexually Transmitted Infections Clinical Trials Group

National Institutes of Health ....................................................... $94,227
Acute Hepatitis C Infection in Young Injectors
National Institutes of Health ....................................................... $94,227
Acute Hepatitis C Infection in Young Injectors
NIH/National Institute of Diabetes and Digestive and Kidney Diseases ........................................ $29,321
CPI: Cambodia Integrated HIV and Drug Prevention Implementation Program
NIH/National Institute of Diabetes and Digestive and Kidney Diseases ........................................ $29,321
CPI: Cambodia Integrated HIV and Drug Prevention Implementation Program
National Institutes of Health ....................................................... $990
Inc3: International Collaborative of Prospective Studies of HIV and Hepatitis in IDU (Supplement)

DOUGLAS PERKINS
National Institutes of Health ....................................................... $242,882
Training and Research on Severe Malarial Anemia
Los Alamos National Laboratory .................................................. $218,756
Characterize the Emergence of Antibiotic Resistance and Virulence in the Immunocompromised Population

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

DAVID SCHADE
National Institutes of Health ....................................................... $475,577
Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study
NIH/National Institute of Diabetes and Digestive and Kidney Diseases ........................................ $232,897
Diabetes Prevention Program Outcomes Study-Phase 3
National Institutes of Health ....................................................... $158,526
Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study
National Institutes of Health ....................................................... $123,450
Epidemiology of Diabetes Intervention and Complications
National Institutes of Health ....................................................... $35,485
Hearing Impairment in Long-Term Type 1 Diabetes
National Institutes of Health ....................................................... $15,384
Residual Beta Cell Function in Patients with Long-Term Type 1 Diabetes
National Institutes of Health ....................................................... $2,000
Type 1 Diabetes TrialNet

MARK SHELTON
GlaxoSmithKline LLC ............................................................... $98,865
Clinical Trial Agreement - Phase 3

AKSHAY SOOD
Agency for Healthcare Research and Quality ................................ $395,123
Novel Role for Adiponectin-Modulating Drugs for Asthma in the Obese
Miners Colfax Medical Center .................................................... $146,393
Miner's Colfax Medical Center-Medical Consultation & Care
American Thoracic Society ....................................................... $18,795
Household Air Pollution from Solid Fuel Combustion Smoke and Global Health Equality - A Workshop

ELAINE THOMAS
New Mexico Department of Health .............................................. $67,757
STD Provider Training Project: FY 15

MARK UNRUH
Anonymous Non-Profit Foundation ........................................... $1,181,620
Medical Directorship and QA
Baystate Medical Center ......................................................... $214,607
ACA-Shared Decision Making and Renal Supportive Care
Dialysis Clinic, Inc. ................................................................. $184,574
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<td><strong>ELLEN BESWICK</strong></td>
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<td>Alteration in CD90+ Stromal Cells in TH1/TH17 Regulation in Crohn's Disease</td>
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<td><strong>KIRAN BHASKAR</strong></td>
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<td>The Role of Inflammasome Signaling in Tauopathies</td>
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<td><strong>JUDY CANNON</strong></td>
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<td><strong>MARY ANN OSELY</strong></td>
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Molly King
National Institutes of Health ........................................... $2,058
Insulin Resistance Intervention after Stroke Trial

Jim Liu
NIH/National Institute of General Medical Sciences ............... $1,048,334
Integrative Program in CNS Pathophysiology Research (COBRE)

Leslie Morrison
University of California, San Francisco ................................ $182,577
Clinical Trial Agreement - Phase 3 - The Brain Vascular Malformation Consortium: Predictors of Clinical Course

Surojit Paul
NIH/National Institute of Neurological Disorders and Stroke ........ $330,313
Role of Brain-Specific Tyrosine Phosphatase STEP in Neuroprotection and Death

NIH/National Institute of Neurological Disorders and Stroke ........ $75,500
Role of Brain Specific Tyrosine Phosphatase STEP in Neuroprotection and Death - Administrative Supplement

John Phillips
The Mind Research Network ............................................. $100,745
MRN Medical Director
The Mind Research Network ............................................. $1,286
MRN Medical Director

Ranjana Poddar
NIH/National Institute of Neurological Disorders and Stroke ........ $330,313
Molecular Basis of Hyperhomocysteinemia-Induced Brain Injury in Ischemic Stroke

Stefan Posse
Rigshospitalet ............................................................... $19,636
Visiting Research Scientist Summer 2014
University of Copenhagen ................................................ $17,371
Visiting Research Scientist February 2015 - April 2015
National Institutes of Health ............................................ $3,127
Magnetic Resonance Spectroscopy of Breast Cancer Using Model-Based Localization

Gary Rosenberg
NIH/National Institute of Neurological Disorders and Stroke ........ $546,112
Bio-Markers for White Matter Injury in Mixed and Vascular Cognitive Impairment
NIH/National Institute of Neurological Disorders and Stroke ........ $327,009
White Matter Hypoxia in Novel Model of MMP - Mediated Inflammation SHR/SP
The Mind Research Network ............................................. $142,399
MRN Administrative Operations

U.S.-Israel Binational Science Foundation .............................. $21,137
Blood-Brain Barrier Permeability Abnormalities and Post-Stroke Cognitive Decline

Eastern New Mexico Medical Center .................................. $10,000
Professional Services

Laurel Sillerud
AMAG Pharmaceuticals, Inc. .......................................... $23,100
Ferumoxytol Contrast for the MRI Imaging for Diabetic Osteomyelitis: An Innovative Study Exploring Iron Contrast Agents for Imaging Osteomyelitis in Diabetic Patients

Jennifer Ann Vickers
New Mexico Department of Health .................................... $131,875
Children's Medical Services (FY 15)

Yi Yang
NIH/National Institute of Neurological Disorders and Stroke ........ $226,500
Longitudinal Monitoring of Microglia Activation After Stroke with SPION-Enhanced MRI

Sarah Youssof
Catalyst Pharmaceutical Partners, Inc. ............................... $6,401
Clinical Trial Agreement - Phase 4

Andrea Allan
NIH/National Institute of Environmental Health Sciences ........ $301,942
Epigenetic Changes in the Glucocorticoid Receptor Gene Due to Arsenic Exposure
NIH/National Institute of Environmental Health Sciences ........ $33,550
Epigenetic Changes in the Glucocorticoid Receptor Gene Due to Arsenic Exposure

Erin Milligan
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $217,063
Chronic Neuropathic Pain, Glial-Immune Responses and Fetal Alcohol Exposure (MPO)

Nora Porrone-Bizzozero
NIH/National Institute on Drug Abuse ................................. $404,353
Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction
NIH/National Institute on Drug Abuse ................................ $42,477
Competing Roles of MicroRNAs and RNA-Binding Proteins in Drug Addiction - Diversity Supplement - Robert Oliver
The Mind Research Network ............................................. $41,783
Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia

Daniel Savage
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $1,618,836
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $1,528,781
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $307,647
Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission

Carlos Valenzuela
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $325,529
Alcohol and Cerebellar Circuits
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $144,369
Alcohol Research Training in Neuroscience
Neurosurgery

**J FRED HARRINGTON**
K2M, Inc. ................................................................. $152,128
Clinical Trial Agreement - Phase 4

**REX JUNG**
Johnson O’Connor Research Foundation ................................................................. $300,000
The Neuroscience of Aptitude

**EDWIN NEMOTO**
Rio Grande Neurosciences, Inc. ................................................................. $79,408
Animal Studies on Repetitive Mild TBI (KB Invitor Sept 2014)

Rio Grande Neurosciences, Inc. ................................................................. $13,750
Animal Studies on Repetitive Mild TBI (KB Invitor Sept 2014)

Rio Grande Neurosciences, Inc. ................................................................. $13,006
Effect of POEMS on cGMP Response During OGD

Rio Grande Neurosciences, Inc. ................................................................. $9,388
PEMF and Microperfusion in TBI, Stroke and Neuroinflammatory Animal Models - Supplement

Rio Grande Neurosciences, Inc. ................................................................. $8,250
PEMF and Microperfusion in TBI, Stroke and Neuroinflammatory Animal Models - Supplement

**TAMARA ROITBAK**
NIH/National Institute of Neurological Disorders and Stroke ........................................ $327,009
In Vivo Inhibition of Specific microRNAs to Support Post-Stroke Revascularization

**CHRISTOPHER TAYLOR**
Johns Hopkins University ................................................................. $119,171
MISTIE III - A Phase 3 Randomized, Open-Label, 500-Subject Clinical Trial of Minimally Invasive Surgery Plus rt-PA in the Treatment of Intracerebral Hemorrhage

**HUY TRAN**
University of Cincinnati ................................................................. $87,603
Ethnic and Racial Variations with Intracerebral Hemorrhage - Per Patient - Phase 4

University of Cincinnati ................................................................. $42,576
Ethnic and Racial Variations with Intracerebral Hemorrhage - Administrative - Phase 4

University of Minnesota ................................................................. $23,746
Antihypertensive Treatment of Cerebral Hemorrhage

**HOWARD YONAS**
Center for Medicare and Medicaid Services ................................................................. $5,198,471
ACA-Access to Critical Cerebral Emergency Support Services HCIA2

New Mexico VA Health Care System ................................................................. $177,156
Neurosurgery Services

New Mexico Department of Veterans’ Services ................................................................. $88,578
VA Neurosurgery Services Interim Agreement

New Mexico Department of Veterans’ Services ................................................................. $88,578
VA Neurosurgery Services Interim Agreement

Guadalupe County Hospital ................................................................. $45,000
Master Services Agreement - ACCESS

Nor-Lea General Hospital ................................................................. $25,000
Master Hospital Services Agreement

Roswell Hospital Corporation ................................................................. $25,000
Clinical Services - ACCESS

New Mexico Department of Health ................................................................. $16,860
UNM Pain Center Naloxone Co-Prescription Pilot Project

New Mexico Governor’s Commission on Disability ............................................... $15,000
Approach for Management of TBI

New Mexico Tumor Registry

**CHARLES WIGGINS**
NIH/National Cancer Institute ................................................................. $2,860,998
Surveillance, Epidemiology and End Results Program (Task Order 5)

NIH/National Cancer Institute ................................................................. $28,121
TOREP-SEER RRSS #14-3 Patterns of Care

Memorial Medical Center ................................................................. $20,000
Memorial Medical Center Abstracting Services

Christus St. Vincent Regional Medical Center ............................................... $15,000
Abstracting at Christus St. Vincent RMC

Christus St. Vincent Regional Medical Center ............................................... $15,000
Abstracting at Christus St. Vincent RMC - BAA

New Mexico Department of Health ................................................................. $6,330
Breast and Cervical Cancer Surveillance Project

U.S. Department of Justice ................................................................. $2,000
Radiation Exposure Compensation Program

Obstetrics and Gynecology

**KATE AUSTIN**
New Mexico Department of Health ................................................................. $140,000
Prenatal Medical Services Project

New Mexico Department of Health ................................................................. $54,960
High-Risk Prenatal Care Project

**GENA DUNIVAN**
Pelvalon ................................................................. $2,000
Clinical Trial Agreement - Phase 4

**EVE ESPEY**
Anonymous Non-Profit Foundation ................................................................. $359,886
Fellowship in Family Planning

First Choice Community Healthcare ................................................................. $82,530
Midwifery Services

New Mexico Department of Health ................................................................. $82,460
High-Risk Prenatal Care

The University of Utah ................................................................. $25,164
BLIS: Breastfeeding Levonorgestrel Study
YUKO KOMESU  
NIH/National Center for Complementary and Alternative Medicine ..............................................  $342,864  
Brain-Centered Therapy Versus Medication for Urgency Urinary Incontinence: An RCT (MPI)  
Research Triangle Institute ..............................................  $231,803  
Human Microbiome Study-ESTEEM  
WILLIAM RAYBURN  
Albuquerque Area Indian Health Service ..............................................  $87,488  
IHS Specialty Services  
REBECCA ROGERS  
NIH/National Institute of Child Health and Human Development ..............................................  $306,219  
RCT of Hypnotherapy vs. Tolterodine for OAB: Voiding and Brain Activation Changes  
RAMEET HARPAL SINGH  
Society of Family Planning ..............................................  $87,992  
Perceptions of Non-Surgical Permanent Contraception in India  
New Mexico Department of Health ..............................................  $67,520  
Tubal Ligation Sterilization Surgical Procedures  
UNM-Sponsored - Bayer Healthcare Pharmaceuticals, Inc ..............................................  $50,291  
PI Initiated - Clinical Trial Agreement - Phase 4  
New Mexico Department of Health ..............................................  $1,108  
Vasectomy Sterilization Surgical Procedures Project (FY 15 Supplement)  
NANCY SOKKARY  
Society of Family Planning ..............................................  $30,000  
Providing Adolescent Contraception in the Emergency Room  
Office of the Medical Investigator  
HANNAH KASTENBAUM  
New Mexico Department of Health ..............................................  $4,220  
New Mexico Violent Death Reporting System (FY 16)  
New Mexico Department of Health ..............................................  $1,055  
New Mexico Violent Death Reporting System (FY 15)  
SARAH LATHROP  
New Mexico Public Safety Department ..............................................  $13,250  
2014 Paul Coverdell Basic  
KURT NOLTE  
National Association of Medical Examiners ..............................................  $198,890  
Compensation for Executive Vice President  
National Association of Medical Examiners ..............................................  $18,301  
Executive Vice President Services  
LORI PROE  
Intersociety Council for Pathology Information  ..............................................  $1,000  
Medical Student Interest Group  
ROSS ZUMWALT  
DVA/Veteran’s Administration Medical Center ..............................................  $78,109  
Autopsy Services for POWs  
New Mexico Crime Victims Reparation Commission ..............................................  $53,655  
Grief Intervention for Homicide Survivors  
DVA/Veteran’s Administration Medical Center ..............................................  $45,691  
Autopsy Services for POWs  
New Mexico Department of Health ..............................................  $25,000  
Public Health Preparedness and Response to Bioterrorism - BT Grant  
New Mexico Department of Health ..............................................  $21,100  
New Mexico Sudden Unexpected Infant Death Registry  
Orthopaedics  
THOMAS DECOSTER  
Center for Orthopaedic Trauma ..............................................  $5,000  
Center for Orthopaedic Trauma Advancement - Educational Grant  
DePuy Orthopaedics, Inc ..............................................  $2,000  
AONA Course - Toronto  
GEHRON TROME  
DePuy Orthopaedics, Inc ..............................................  $10,000  
AONA Course - New Orleans  
Synthes, Inc ..............................................  $10,000  
AONA Course - Phoenix  
DePuy Orthopaedics, Inc ..............................................  $9,180  
AONA Course - Toronto  
DePuy Orthopaedics, Inc ..............................................  $4,000  
AONA Course - New Orleans  
DePuy Orthopaedics, Inc ..............................................  $2,295  
AONA Course - Atlanta  
Synthes, Inc ..............................................  $2,000  
AONA Course - Charlotte  
DANIEL WASCHER  
Arthrex, Inc ..............................................  $20,000  
Arthrex Sports Fellowship Grant/Educational Grant  
U.S. Department of Justice ..............................................  $9,730  
Expert Witness (Medeles v. U.S.A.)  
Pathology  
ELAINE BEARER  
NIH/National Institute of Mental Health ..............................................  $562,571  
Live Imaging of Brain Circuitry in Mouse Models of PTSD  
THERESIE BOCKLAGE  
TriCore Reference Laboratories ..............................................  $105,800  
Professional Service Agreement - Diagnostics WSI  
DOUGLAS CLARK  
TriCore Reference Laboratories ..............................................  $2,788,864  
Medical Direction  
TriCore Reference Laboratories ..............................................  $546,152  
Medical Direction  
TriCore Reference Laboratories ..............................................  $364,101  
Medical Direction  
United Blood Services ..............................................  $223,695  
Professional Services
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<td>Functional Role of Tetraspanin CD82 in Hematopoietic Stem Cell Interaction</td>
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<td>Assessing Current Diagnostic Practices Among Clinical Labs in FoodNet Catchment Area</td>
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<td><strong>Aaron Neumann</strong></td>
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<td>Nano and Micrseconds Molecular Machines for Innate Immune Sensing of Candida</td>
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<td>Detection and Usage of Novel Compounds to Stimulate NLRP3 Inflammassome Activity</td>
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<td><strong>Angela Wandinger-Ness</strong></td>
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<td>OFD1 as Constituent of a Multimeric Protein Complex in Odontoblast Primary Cilia - Supplement</td>
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<td><strong>Cosette Wheeler</strong></td>
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<td>Three-Dimensional Molecular Tracking of Ige-Fc3RI in Live Cells</td>
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<td>Validation of the Pre-BCR Signaling Complex in Pre-B ALL Cell Model by Two-Color Single-Particle Tracking and Peptidomimetic Inhibition</td>
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**BRIDG EWILSON (CONTINUED)**

MedImmune, Inc ................................................... $12,500
**Sponsored Research Agreement: UNM HSC and MedImmune**

**STEPHEN YOUNG**
nano MR, Inc ..................................................... $115,000
**Specimen Acquisition Study to Evaluate the NanoMR Pathogen Detection System**
Life Technologies Corporation ................................... $30,000
**Preparation of Microbial Stock**

**ROSS ZUMWALT**
Lovelace Health System .......................................... $25,000
Autopsy Services

**Shirley Abraham**
Oregon Health & Science University ................................ $34,250
**Regional Hemophilia Network-Mountain States**
University of Colorado - Denver .................................. $32,021
**Public Health Surveillance for the Prevention of Bleeding and Clotting**
American Thrombosis and Hemostasis Network ................. $11,250
**ATHN Data Quality Counts - BAA**

**TANYA BAKER-MCCUE**
New Mexico Library Foundation ..................................... $1,000
**New Mexico Library Foundation Grant**

**Koh Boayue**
Children’s Hospital of Philadelphia ................................ $76,150
**Clinical Trial Agreement - Non-Industry**
St. Baldrick’s Foundation ........................................... $69,000
**St. Baldrick’s Infrastructure Development Grant**
Children’s Hospital of Philadelphia ................................ $37,000
**COG Clinical Trial Agreement Subaward - Phases 2 and 3**
Children’s Hospital of Philadelphia ................................ $10,000
**Clinical Trial Agreement - Phase 2**
Children’s Hospital of Philadelphia ................................ $4,800
**Health Effects After Anthracycline and Radiation Therapy: Dexrazoxane and Prevention of Anthracycline**

**Francine Caffey**
New Mexico Department of Health .................................. $4,774
**Summer Asthma Institute Project**

**Carol Clericuzio**
University of California, San Diego .................................. $5,000
**Prospective Follow-Up of Pregnancy Exposure to Humira**

**LoreTTA Cordova De Ortega**
New Mexico Department of Health ................................... $317,555
**Children’s Medical Services Outreach Clinics Project**
New Mexico Department of Health ................................... $132,930
**Children’s Medical Services Outreach Clinics Project - FY 16 - Supplement - Pediatric Cardiology Clinic**
New Mexico Department of Health ................................... $66,465
**Children’s Medical Services Outreach Clinics Project - FY 15 - Supplement - Pediatric Cardiology Clinic**
TriCore Reference Laboratories ...................................... $26,164
**Genetic Counseling Services**
San Juan Regional Medical Center .................................. $25,000
**Professional Services Agreement**
Molina Healthcare of New Mexico .................................. $20,000
**In-Home Assessments**
Taos Clinic for Children and Youth ................................ $10,000
**Professional Services via Telemedicine - BAA**
PHC-Las Cruces, Inc ................................................ $6,394
**Professional Services/Consultations - BAA**
Northern Navajo Medical Center .................................. $4,800
**On-Site Pediatric Genetic Clinic**
Mountain View Regional Medical Center .......................... $2,500
**Professional Services**
Lordsburg Municipal Schools ........................................ $2,397
**Professional Services**
Ben Archer Health Center, Inc ....................................... $550
**Professional Service Agreement**

**Lea Davies**
HHS/Health Resources and Services Administration .............. $333,642
**New Mexico Pediatric Pulmonary Center**
Cystic Fibrosis Foundation ........................................... $44,295
**Cystic Fibrosis Center of New Mexico-Cystic Fibrosis Registry - BAA**
HHS/Health Resources and Services Administration .............. $25,000
**New Mexico Pediatric Pulmonary Center - Administrative Supplement**

**Walter DeHorty**
Duke University ...................................................... $38,460
**Clinical Study - Phase 1**
Duke University ...................................................... $11,951
**Clinical Study - Phase 1 - Start-Up**

**Tara DuPont**
New Mexico Department of Health ................................... $118,000
**Developmental Care Continuity Program - Fee-For-Service**
New Mexico Department of Health ................................... $70,640
**Developmental Care Continuity Program - (Cost Reimbursement)**
American Academy of Pediatrics ................................... $12,000
**Neonatal Passport**

**RandY Heidenreich**
New Mexico Department of Health ................................... $116,472
**CMS Newborn Screening (FY 16) - BAA**
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<td>ACA-Taking Charge of Systemic Sclerosis: Improving Patient Outcomes Through Self-Assessment</td>
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HENGAMEH RAISY (CONTINUED)
Oregon Research Institute ........................................... $13,142
Adaptation and Evaluation of a Family-Based Mindful Eating Intervention for Overweight Adolescents

AstraZeneca Pharmaceuticals, LP ................................... $10,110
Clinical Trial Agreement - Phase 3

Parexel International ................................................ $2,931
Clinical Trial Agreement - Phase 3 - Supplement

MARY RAMOS
American Academy of Pediatrics ...................................... $2,000
Promoting Healthy Eating and Literacy at East San Jose Elementary School

ALYA REEVE
New Mexico Department of Health .................................. $52,750
Continuum of Care - Mortality

JENNIFER VICKERS
New Mexico Department of Health .................................. $968,803
Continuum of Care - Primary

KRISTI WATTERBERG
NIH/National Heart, Lung, and Blood Institute .................... $373,608
Adrenal Function and Adverse CV Outcomes at Age 6 After Extremely Preterm Birth

NIH/National Institute of Child Health and Human Development ........................................... $294,683
Cooperative Multicenter Neonatal Research Network

Research Triangle Institute ................................................. $104,968
Cooperative Multicenter Neonatal Research Network - Capitation

National Institutes of Health ........................................... $3,760
Effect of Hydrocortisone on the Cardiac Mass of Premature Incubated Infants

STUART WINTER
Children's Hospital of Philadelphia .................................. $15,000
Clinical Trial Agreement - Phase 3

New Mexico Department of Health .................................. $15,000
Children's Medical Services - Camp Enchantment

CRAIG WONG
The Children's Mercy Hospital ........................................... $69,773
Ckid Clinical

The Children's Mercy Hospital ........................................... $17,800
Ckid Steering Committee

PEDIATRICS CENTER FOR DEVELOPMENT & DISABILITY

TANYA BAKER-MCCUE
New Mexico Division of Vocational Rehabilitation ................. $400,000
DVR Partners for Employment

New Mexico Division of Vocational Rehabilitation ................. $300,000
DVR Project Search

New Mexico Developmental Disabilities Planning Council ............... $160,000
InfoNet/BabyNet

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

New Mexico Developmental Disabilities Planning Council ............... $2,500
NM LEND Legislative Advocacy Seminar

ANTHONY CAHILL
New Mexico Human Services Department ............................... $450,455
Increasing the Quality of Life of New Mexicans with Brain Injuries and Caregivers Through Effective Support Services - BAA

HRSA/Maternal and Child Health Bureau ....................................... $249,879
New Mexico Perinatal and Infant Oral Health Quality Improvement Project

New Mexico Human Services Department ....................................... $241,631
Increasing the Quality of Life of New Mexicans with Brain Injuries and Caregivers Through Effective Support Services

New Mexico Human Services Department ....................................... $208,825
Increasing the Quality of Life of New Mexicans with Brain Injuries and Caregivers Through Effective Support Services

New Mexico Governor's Commission on Disability ....................... $60,000
Support for the Southwest Disability Conference

New Mexico Governor's Commission on Disability ....................... $60,000
Support for the Southwest Disability Conference

New Mexico Developmental Disabilities Planning Council ............... $10,000
DDPC Stipends

LORETTA CORDOVA DE ORTEGA
Qualis Health ................................................................................. $80,625
In-Home Assessments for Medically Fragile Waiver - BAA

Molina Healthcare of New Mexico ........................................... $10,000
In-Home Assessments

ANDREW HSI
New Mexico Department of Health ........................................... $86,500
DDSD FIT

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

Region IX Education Cooperative ........................................... $8,600
CYFD Early Childhood Professional Development

MARCIA MORIARTA
New Mexico Department of Health ........................................... $3,116,000
Autism Programs - BAA

New Mexico Children, Youth and Families Department ................. $939,672
ACA-Nurse Family Partnership Program (FY 16)

New Mexico Department of Health ........................................... $827,000
Race To The Top Early Learning Challenge - BAA

New Mexico Department of Health ........................................... $755,969
Administrative Support - Intensity Scale in New Mexico (FY 16)

HHS/Administration for Community Living ....................................... $545,919
University Center for Excellence in Development Disabilities Education
HHS/Administration for Community Living................................. $535,215
University Center for Excellence in Development Disabilities Education

New Mexico Department of Health ......................................... $496,415
DDSD Partners for Employment (FY 15)

New Mexico Department of Health ........................................ $416,000
Early Childhood Network - BAA

New Mexico Department of Health ........................................ $406,000
Early Childhood Network

New Mexico Children, Youth and Families Department ............... $344,554
ACA-Nurse-Family Partnership Program (FY 16)

New Mexico Department of Health ........................................ $237,760
Improving the Quality of Life of New Mexico Youth With Disabilities in Transition

New Mexico Children, Youth and Families Department ............... $150,000
Infant Mental Health Team (FY 15)

New Mexico Department of Health ........................................ $127,274
NM SAFE Program

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

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

New Mexico Department of Health ........................................ $106,191
Project SET (Specialized Early Teaching) - BAA

New Mexico Department of Health ........................................ $106,191
Project SET (Specialized Early Teaching)

Navajo Nation............................................................... $76,000
Growing in Beauty Program Therapy Services

New Mexico Department of Health ........................................ $76,000
Medically Fragile Case Management Program Contract

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

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

New Mexico Department of Health ........................................ $20,250
Deaf-Blind Match - BAA

New Mexico Department of Health ........................................ $19,238
Deaf-Blind Match

New Mexico Children, Youth and Families Department ............... $16,000
Community of Practice Training - BAA

PAT OSBOURN
New Mexico Public Education Department ............................ $1,439,992
PED Pre-K Race to the Top Early Learning Challenge (FOCUS TQRIS)

New Mexico Public Education Department ............................ $482,119
PED Pre-K Race to the Top Early Learning Challenge (FOCUS TQRIS)

New Mexico Public Education Department ............................ $478,549
PED Contract (ASBS, SET, Deaf-Blind, PSN)

New Mexico Public Education Department ............................ $478,548
PED Contract

U.S. Department of Education ............................................. $100,912
Project for New Mexico Children Who Are Deaf-Blind

New Mexico Developmental Disabilities Planning Council ......... $62,500
Partners in Policymaking

Rio Rancho Public Schools ................................................ $33,000
Rio Rancho Public Schools Consultations

Albuquerque Public Schools .............................................. $3,630
Albuquerque Public Schools Consultations

Mora Independent Schools ................................................. $1,102
Mora Independent Schools Consultations

Pediatrics Prevention & Population Sciences

THERESA CRUZ
New Mexico Human Services Department ......................... $128,361
Statewide SNAP-Ed Evaluation

Presbyterian Healthcare Services ................................. $89,268
REACH Evaluation

New Mexico Department of Health ........................................ $53,000
PRC Sexual Violence Prevention Technical Assistance Project

New Mexico Department of Health ........................................ $45,000
PRC Sexual Violence Prevention Technical Assistance Project

SALLY DAVIS
HHS/Centers for Disease Control and Prevention ....................... $83,200
Nutrition and Obesity Policy Research and Evaluation in Early Childcare Settings Serving Southwest American Indian and Hispanic Populations

New Mexico Department of Health ........................................ $75,000
Teen Outreach Program (FY 15)

United Way .............................................................. $70,000
Promoting Healthy Lives (ACL Teen Centers)

New Mexico Department of Health ........................................ $20,000
Implementing Evidence-Based Recommendations that Promote Healthy Activities

New Mexico Primary Care Association ................................ $15,000
Integrated Medicaid Enrollment

New Mexico Department of Health ........................................ $7,275
Implementing Evidence-Based Recommendations that Promote Healthy Activities

GLENDIA FALLAS
New Mexico Human Services Department ......................... $189,137
CHILE Plus, Social Marketing and Statewide SNAP-ED Evaluation

PATRICIA KEANE
New Mexico Human Services Department ......................... $422,685
CHILE Plus, Social Marketing and Statewide SNAP-ED Evaluation

SHIRAZ MISHRA
NIH/National Institutes of Health ................................. $252,185
New Mexico’s Future Researchers Exploring Science and Health (SEPA)
LINDA PEÑALOZA
New Mexico Department of Health ........................................... $204,430
Youth Risk and Resiliency Survey Project

New Mexico Department of Health ........................................... $100,869
Youth Risk and Resiliency Survey Project

Tobacco Program Evaluation and Support HEART

New Mexico Department of Health ........................................... $74,905
Youth Risk and Resiliency Survey Project

New Mexico Department of Health ........................................... $50,000
ESHE Evaluation

New Mexico Public Education Department ................................ $32,000
ESHE Evaluation

New Mexico Public Education Department ................................ $32,000
ESHE Evaluation

New Mexico Public Education Department ................................ $18,093
ESHE Evaluation

New Mexico Public Education Department ................................ $8,000
ESHE Evaluation

Psychiatry and Behavioral Sciences

CHRISTOPHER ABBOTT
The Mind Research Network ................................................ $177,724
Project 5-Abbott-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms & Biomarkers (COBRE II)

CHERYL AINE
The Mind Research Network ................................................ $81,754
MDA-Aine-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms & Biomarkers (COBRE II)

The Mind Research Network ................................................ $55,222
ADA-Aine-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms & Biomarkers (COBRE II)

DEBORAH ALTSCHUL
W.K. Kellogg Foundation ...................................................... $403,487
New Mexico Learning and Evaluation Consortium

New Mexico Behavioral Health Collaborative/Human Services Department $257,158
Screening, Brief Intervention and Referral to Treatment - BAA

New Mexico Children, Youth and Families Department $232,333
CYFD System of Care - BAA

San Felipe Pueblo ............................................................... $110,337
KEYWAH II

PAMELA ARENELLA
The Mind Research Network ................................................ $13,000
Effectiveness of Varenicline: Testing Individual Differences

JEROLD BELITZ
HHS/Health Resources and Services Administration ................ $122,099
Psychology Internship Expansion Grant

JEANNE BERITTER
San Felipe Pueblo ............................................................... $69,668
San Felipe Home Visiting FY 15

New Mexico Children, Youth and Families Department $63,100
Rural Psychiatric Services-Child Fellowship Training

Anonymous ................................................................. $28,000
Home Visiting

MICHAEL BOGENSCHULTZ
National Institutes of Health ............................................... $632,425
Comparing Interventions for Opioid-Dependent Patients Presenting in Medical EDs

New Mexico Children, Youth and Families Department $169,220
ASAP Adolescent Addictions - BAA

CAROLINE ALBERTA BONHAM
New Mexico Behavioral Health Collaborative/
New Mexico Human Services Department ................... $790,377
Behavioral Health Services (FY 15)

New Mexico Human Services Department ................... $651,843
Behavioral Health Services (FY 16)

Albuquerque Area Indian Health Service .................. $359,334
Albuquerque Area IHS Center for TeleHealth Excellence Project FY 15 - BAA

Hidalgo Medical Services ........................................... $150,000
Hidalgo Medical Services, Inc. - Psychiatric Services - BAA

New Mexico Human Services Department ................... $142,348
Behavioral Health Services

New Mexico Human Services Department ................... $142,348
Behavioral Health Services

NIH/National Institute on Drug Abuse .................. $7,500
NIMH Outreach Partnership

JUAN BUSTILLO
The Mind Research Network ................................................ $356,488
ACAM-Bustillo-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms & Biomarkers (COBRE II)

Otsuka Pharmaceutical Development & Commercialization, Inc. .... $200,000
Clinical Trial Agreement - Phase 1

University of Texas ...................................................... $137,610
Clinical Trial Agreement - Phase 4

The Mind Research Network ........................................... $45,221
A Multidimensional Investigation of Cognitive Control Deficits in Psychopathology

The Mind Research Network ........................................... $44,658
A Multidimensional Approach for Cognitive Control Deficits in Psychopathology

RICHARD CAMPBELL
Albuquerque Public Schools ................................................ $101,652
Neuropsychiatric Evaluations - BAA

ANNETTE SUSAN CRISANTI
OptumHealth New Mexico ........................................... $37,291
OptumHealth - Adult Transformation: Healthy Homes

OptumHealth New Mexico ........................................... $37,291
OptumHealth - Adult Transformation: Healthy Homes
ERIK ERHARDT
The Mind Research Network ........................................... $15,871
BNI-Erhardt-Multimodal Imaging of Neuropsychiatric Disorders: Mechanisms & Biomarkers (COBRE II)

DAVID GRAEBER
Bernalillo County Juvenile Detention Center .................................. $76,530
Professional Services

PAULA HENSELY
INNO Clinical Outcomes LLC ........................................ $178,400
Clinical Trial Agreement - Phase 1
INNO Clinical Outcomes LLC ........................................ $118,608
Clinical Trial Agreement - Phase 2

BRIAN ISAKSON
OptumHealth New Mexico ............................................. $39,320
Veterans First Jail Diversion Project
OptumHealth New Mexico ............................................. $25,000
Military, Veteran and Family Support Services
OptumHealth New Mexico ............................................. $25,000
Military, Veteran and Family Support Services

AVRON KRIECHMAN
New Mexico Department of Health .................................. $125,000
Telehealth School-Based Health Centers

STEPHENV LEWIS
Feinstein Institute for Medical Research ................................ $114,585
ACA-Improving Care & Reducing Cost
Feinstein Institute for Medical Research ................................ $120,081
RAISE Extension - Part II
Feinstein Institute for Medical Research ................................ $8,338
RAISE Extension - Part I

RASHMI SABU
HHS/Substance Abuse and Mental Health Services Administration.. $399,769
Addressing Childhood Trauma through Intervention, Outreach and Networking

JULIE GRIFFIN SALVADOR
New Mexico Children, Youth and Families Department .................. $147,413
Communities of Care (CYFD SOC Expansion) FY 16 - BAA
New Mexico Children, Youth and Families Department .................. $110,157
Communities of Care (CYFD SOC Expansion) FY 15 - BAA
OptumHealth New Mexico ............................................. $34,690
Treatment for Pregnant and Postpartum Women
OptumHealth New Mexico ............................................. $28,100
NIDA Total Community Approach

HELENE SILVERBLATT
New Mexico Department of Health ..................................... $225,000
Public Psychiatry Program

ROBERT THOMA
The Mind Research Network ............................................. $147,731
Multimodal Imaging of Neuropsychiatric Disorders: Mechanisms & Bio-Markers (COBRE II) Project 4
The Mind Research Network ............................................. $14,777
Multimodal Imaging of Neuropsychiatric Disorders: Mechanisms & Bio-Markers (COBRE II)

MAURICIO TOHEN
Dartmouth College ....................................................... $170,377
Clozapine for Cannabis Use Disorder in Schizophrenia
The Peak at Santa Teresa, Inc. .......................................... $25,000
Telemedicine Services

CLAIRE ELIZABETH WILCOX
NIH/National Institute on Alcohol Abuse and Alcoholism ............... $180,013
Neural Mechanisms of Change During Alcohol Use Disorder Treatment with Prazosin

MARIABEAUTY BRAVEHEART
NIH/National Institute on Alcohol Abuse and Alcoholism ............... $140,273
Iwankapiya - Healing: Historical Trauma and Group IPT for American Indians

Radiology

LOREN KETAI
NIH/National Center for Complementary and Integrative Health .... $179,929
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence: An RCT - MPI

REED SELWYN
X-Ray Associates of New Mexico ....................................... $55,000
Medical Physicist Services

PHILIP WIST
U.S. Department of Veterans Affairs .................................... $1,283,245
Radiological and Nuclear Medicine Diagnostics and Therapy Services
U.S. Department of Veterans Affairs .................................... $733,333
Radiological and Nuclear Medicine Diagnostic and Therapy Services
New Mexico Department of Health .................................... $83,018
Breast and Cervical Cancer Early Detection Program
New Mexico Department of Health .................................... $20,000
Breast and Cervical Cancer Early Detection Program
U.S. Department of Veterans Affairs .................................... $7,318
Radiological and Nuclear Medicine Diagnostic and Therapy Services

Surgery

ARUP DAS
NIH/National Institute of Environmental Health Sciences ............. $339,750
Inflammatory Chemokines: A Novel Target in Early Diabetic Retinopathy
New Mexico VA Health Care System ................................... $41,420
IPA-Caroline Franco Nitta
NIH/National Institute of Environmental Health Sciences ............. $30,200
Inflammatory Chemokines: A Novel Target in Early Diabetic Retinopathy

THOMAS HOWDIESHELL
Astupe Medical Inc. ...................................................... $35,000
Clinical Trial Agreement - Phase 4

Mara Steinkamp, PhD
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<td>Does Near-Peer Tutoring Facilitate Medical Student Learner Self-Efficacy?</td>
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<td>Behavioral Health Assessment and Treatment for Students</td>
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**UNIVERSITY OF NEW MEXICO MEDICAL GROUP**

**Anthony Masciotta**
New Mexico Children, Youth and Families Department .......... $179,910
Professional Services - BAA
Albuquerque Area Indian Health Service ....................... $25,000
Provider Services Agreement

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