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 by 2020.

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. As a majority-minority state, our mission will ensure that all populations in New Mexico 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 and accountability. 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 perform our duties with compassion and respect for our patients, learners, and colleagues; and always to conduct ourselves with the highest level of professionalism.
Letters
From the Chancellor for Health Sciences ................................................................. 2
From the Executive Vice Chancellor, Vice Chancellor for Research .................. 3
From the Dean of the College of Nursing ............................................................. 4
From the Dean of the College of Pharmacy ......................................................... 5
From the Executive Vice Dean of the School of Medicine ................................. 6

Featured Stories
Can Peers Deliver Treatment for Addiction and Trauma? .................................. 7
How Does Multiple Sclerosis Affect the Brain? .................................................... 8
Can We Expand the Window of Opportunity for Treating Stroke Patients? ........ 9
How Can We Improve Treatment for Ovarian Cancer? ........................................ 10
What Makes Cancer Cells Different? ................................................................. 11
Is There a Way to Reverse Vision Loss in Diabetes? ........................................... 12
How Do I Prevent Dialysis if I Have Diabetes? ..................................................... 14
What Are the Long-Term Effects of Asthma Medication on Kids? ...................... 15
How Can We Better Protect Children with Chronic Kidney Disease? ................ 16
Are Lungs a Pathway to Cardiovascular Disease? ............................................... 18
What Are the Long-Term Effects of Uranium Mining on Navajo People? .......... 20
How Can We Power-Up Our Immune Systems from the Inside? ......................... 21
Can We Find New Uses for Drugs to Improve Our Health? ............................... 22
Is New Mexico Prepared to Care for Our Military Veterans? ............................. 23
What Can Our Mouths Tell Us about Our Bodies? ............................................. 24

2013 Excellence in Research Award Winners ....................................................... 26
Profiles of 2012 Excellence in Research Awards Winners .................................. 27
UNM Health Sciences Center Research Highlights and Milestones ...................... 28
Training Grant Awards ....................................................................................... 30
HSC Research – By the Numbers ....................................................................... 32
Listing of Contracts & Grants 2013 ................................................................. 33-56
This is an exciting time in biomedical research. Never before have we been so focused on directly advancing human health. From larger, community-based research programs to microbiological investigations, we have an energized, dedicated research community. As you’ll read in these pages, our investigators are passionate about their work, bringing vital insight to their study designs and health discoveries.

This energy is properly guided by the UNM Health Sciences Center’s Vision 2020, which establishes clear educational, clinical and research goals for the next decade. Adopted in 2010, Vision 2020 is the template for the first academic health center strategic plan that focuses on improving a state population’s health and health equity as a measure of the institution’s success. Accordingly, all HSC colleges, schools, departments and programs have incorporated measures to improve the health of New Mexico into their annual performance.

Vision 2020 is an ambitious and worthy pursuit, to which no other academic health center has committed. We are using evidence-based interventions and evidence-informed policy to build on successful programs and pilots, while aligning existing resources to address community health priorities.

The HSC research enterprise is a significant player in our Vision 2020 strategy. Four years into our strategic plan, we are engaging whole communities in developing their own health solutions through our well-established statewide clinical research programs.

The Health Sciences Center’s research enterprise will continue dissecting the most prevalent diseases in our time, from cancer to diabetes, through team science, institutional collaborations and funding partnerships that sharpen our focus on improving the health of New Mexicans and populations throughout the world.
The University of New Mexico Health Sciences Center is thriving in an increasingly challenging biomedical research landscape, having attracted a record $149.8 million in extramural funding for Fiscal Year 2013. Our faculty and staff tirelessly pursue scientific advances to improve New Mexicans’ lives in line with our Vision 2020 strategic plan. They collaborate across disciplines to carry out participatory, clinical and basic research, while benefiting from strong statewide community partnerships.

The Clinical and Translational Science Center remains central to the HSC research effort. Since opening in 2010, the center has sped the dissemination of research into clinical practice, directly accounting for more than $73 million of new extramural funding (including more than $26 million in grants resulting from $2.8 million in pilot funding).

Thanks to this success, the CTSC has supported more than 100 clinical trials for the treatment of asthma, diabetes, obesity, brain trauma, stroke, cystic fibrosis and other diseases. It also leads regional scientific consortia and recently won a $20.2 million grant to build biomedical research throughout the Mountain West. The CTSC’s Community Engagement Research Core has supported more than 30 community-based research projects, including a recent programmatic grant in southern New Mexico to examine best practices for rural clinics.

The UNM Cancer Center is New Mexico’s only National Cancer Institute-designated facility, with 90 board-certified oncology physicians and 126 cancer researchers who are recognized for their work in women’s cancers, leukemia and radioisotopes. The Cancer Center also has a significant economic impact and has been involved in several new patents and biotech startup companies related to cancer care.

Other new research centers, programs and laboratories have fostered a nurturing environment for HSC investigators. I invite you to continue reading about the important questions we’re asking and the solutions our scientists are formulating.
The College of Nursing’s research and service grants and contracts continued to grow during the past fiscal year. The College historically has focused its research and service projects on promoting health and preventing disease, while helping patients and families manage illnesses. Much of our work has been community based, centered on improving health outcomes for vulnerable populations and reducing health disparities. The College also leads in health policy research, analysis and advocacy to create interdisciplinary solutions to urgent health care and health policy problems.

While these priorities continue to be the cornerstone of our research, we are building on our strengths to develop our capacity in new areas, such as dissemination and implementation science. The College is working in interdisciplinary research teams to promote the adoption of evidenced-based clinical practice guidelines and develop new partnerships with industry, regional and national organizations and government. This model of collaborative research and service will grow in coming years as we work with our colleagues and partners to address important New Mexico health priorities.

The College also leverages its expertise in focusing on research that includes outcomes relevant to patients. This translational approach – developing and delivering health solutions directly to patients and communities – better positions the College to respond to the growing national emphasis on patient-centered outcomes research.
The UNM College of Pharmacy takes pride in the breadth of its research and its funding success. College faculty members have an excellent track record in securing extramural research funding in toxicology, pharmacology, pharmaceutical sciences, clinical sciences, pharmaceutical care and outcomes research. The College’s environmental health and radiopharmaceutical development programs have long garnered national recognition, and the College’s clinical research initiative is experiencing rapid growth.

Despite the federal budget sequestration, research grants and contracts awarded to faculty members this year exceeded $5.6 million – an impressive 64 percent increase in extramural funding over the previous year. Moreover, in its most recent annual research performance rankings, the American Association of Colleges of Pharmacy ranked UNM 27th in total funding and 30th in NIH funding among 129 US colleges of pharmacy.

Given the challenging funding environment, the College recognizes that inter-disciplinary scientific collaborations are integral to securing increased federal funding. It has devoted significant resources to supporting team science collaborations while cultivating areas of excellence. The College launched its “Request-for-Proposals Intramural Pilot Funding Initiative” to stimulate the formation of interdisciplinary teams and increase success rates for extramural applications, large-scale NIH programmatic grant awards and other high-impact outcomes. The College also continues to facilitate research mentorship by providing research and grant writing workshops to new and junior faculty.

The College recognizes the importance of translational research, which spans the continuum from bench research involving drug target identification and drug discovery to clinical research, health outcomes and policy research. This positions it at the forefront of interdisciplinary translational research, poised to expand its research efforts.
The UNM School of Medicine has been exploring ways to improve human health through biomedical research since its founding nearly 50 years ago. Faculty members conduct a broad range of research, from cell- and animal-based laboratory studies to patient-oriented, community engaged clinical investigations.

The research interests of the school’s 950 faculty members are closely aligned with the Health Sciences Center’s six signature programs: brain and behavioral illness, cancer, cardiovascular and metabolic disease, child health, environmental health services and infectious diseases and immunity.

Our scientists also focus on population health, comparative effectiveness research, advanced microscopy, molecular screening for drugs, the neurosciences, immunology and cell biology. This research, conducted by interdisciplinary teams, has substantially improved health in New Mexico and throughout the world.

The faculty regularly collaborate with our major centers, UNM’s Clinical and Translational Science Center and the Cancer Center, as well as our programs in spatiotemporal modeling, human papillomavirus research, the statewide ECHO Program, numerous neurosciences programs and many others. This flexible, focused approach addresses New Mexico’s unique multicultural health needs while making significant contributions to improving global human health.

The School of Medicine is thus well-positioned to compete for and conduct biomedical research studies to improve the health and quality of life for all.
CAN PEERS DELIVER
TREATMENT FOR ADDICTION AND TRAUMA?

When Alex Romero, a recovering heroin addict, came to the Inside Out peer treatment program in Española two years ago, it was so beneficial that he became a peer specialist to help others.

Success stories like his encourage UNM psychiatric epidemiologist Annette Crisanti, who is studying the benefits of using peers in mental health clinical settings. “It’s therapeutic to have a peer work with you – someone who really knows what you’ve been through,” says Crisanti, who is testing whether peers can deliver “Seeking Safety,” an evidence-based cognitive-behavioral therapy model, to combat trauma and substance abuse.

Crisanti is partnering with The Life Link, a Santa Fe non-profit that provides therapists for the control group, and Inside Out, which recruits participants and peers. Effective treatment is badly needed in Rio Arriba County, which has one of the highest drug-induced death rates in the nation – 62 per 100,000 people – and a shortage of mental health providers.

Kathy Sutherland-Bruaw founded Inside Out because she grew frustrated seeing people fall through the cracks. “Based on my own life experiences, I wanted to bring much-needed resources to this community,” she says. “My hope is that people who are addicted to drugs can learn how to cope.”

For Romero, being a peer counselor is an opportunity to change the future. “Addiction and trauma can be intergenerational, and this is a great opportunity to break the chain,” he says. “I am so glad we can offer this program free to our community.”

Principal Investigator
Annette Crisanti, PhD, Research Associate Professor, Department of Psychiatry

Grant Name
Patient-Centered Trauma Treatment for PTSD and Substance Abuse: Is it an Effective Treatment Option?

Grantor
Patient-Centered Outcomes Research Institute (PCORI)
When Donna Seagrave was diagnosed with multiple sclerosis more than two decades ago, there were no approved disease-modifying drugs for the condition.

“I experienced my first episode in 1991 – numbness in my right leg,” she says, “but I wasn’t diagnosed until a year later when the right side of my body went to mush.”

Seagrave, who recently started a new medication that enabled her to walk for the first time in 15 years, believes in the value of research. “Research is the thing that’s going to help us stop MS in its tracks,” she says. “There used to be no hope for people with this disease. There are now 10 drugs that can treat it.”

She is participating in a study led by Dr. Corey Ford, who has been studying and treating the disease for more than two decades. Ford says MS patients develop brain lesions that can cause memory loss, weakness or vision problems. “Usually, MS begins with ‘attacks’ of a symptom,” he says. “Then, over weeks or months, it gets better. If they don’t recover completely, they may be left with a disability that could accumulate over time.”

New neuroimaging technologies like magnetoencephalography (MEG) have greatly enhanced researchers’ ability to understand how MS affects the brain. “MEG shows both where the brain is activated and the timing while a person is performing a specific task,” Ford says. “It will help us answer many questions, like, ‘When did some part of the brain turn on? When did it communicate? Is it slow? Is it abnormal? Is it improving?’”

Regaining the ability to walk has given Seagrave renewed optimism. “It was very exciting for me,” she says. “I always thought MS was a downhill trajectory. Instead, I’m improving. I think I’ll really have a future.”

Principal Investigator
Corey C. Ford, MD, PhD, Senior Associate Dean, Research; Director, MS Specialty Clinic; Professor, Department of Neurology

Grant Name
Impaired Interhemispheric Relationships in MS: Evaluation by MEG, EEG, and MRI-Remediation by Dalfampridine

Grantor
Acorda Therapeutics, Inc.

Featured on http://vimeo.com/hscTV/ford
Time lost is brain lost, when it comes to stroke. That’s why Jim Liu and his research team are looking for ways to expand the three-hour window after a stroke’s onset to administer the most effective treatment to protect brain tissue.

“Stroke activates a molecular process that degrades the blood vessel – what we call the blood-brain barrier,” Liu explains. An FDA-approved drug called tissue plasminogen activator (tPA) counteracts ischemic stroke by dissolving the clot that caused the attack, so blood can resume flowing into the brain.

However, if a patient gets to the hospital after three hours, tPA can’t be used, because it may cause the blood vessel to become leaky and hemorrhage, Liu says. So while tPA is very effective in preventing permanent damage, the majority of patients don’t get to the hospital in time to receive it.

The window for tPA effectiveness is more variable under some circumstances, Liu says. Some patients could safely receive the drug up to six hours after a stroke, but doctors err on the side of caution because there is currently no way to know the actual progression of blood vessel damage.

Liu and his team are developing a kit that can be used by any hospital to immediately evaluate vessel health. Expanding the number of patients treated with tPA could dramatically alter the impact of stroke – the fourth leading cause of death and a major cause of adult disability.

“This project is derived from a network of expertise,” Liu says. “We are now transforming this knowledge into something tangible and clinically useful that can touch peoples’ lives.”
Ovarian cancer is the most deadly gynecologic cancer, often spreading throughout the body before being diagnosed. Moreover, 70 to 80 percent of women who undergo surgery and chemotherapy will experience a recurrence within a year.

HSC researchers Angela Wandinger-Ness and Laurie Hudson have discovered a potential therapy for ovarian cancer in the form of ketorolac, a commonly used anti-inflammatory drug with chemical properties similar to aspirin or ibuprofen.

They study GTPases, enzymes that act like switches to turn cellular activity on and off. “Sometimes the switch can go awry, turning on or off inappropriately, and result in disease,” explains Wandinger-Ness. “With ovarian cancer, the switch is always on.” In the lab, she says, ketorolac acts as a monkey wrench, gumming up the switch and hindering the spread of ovarian cancer.

They are now working with gynecologic oncologist Dr. Carolyn Muller on a preliminary trial testing the drug’s effects in ovarian cancer patients. “The beauty of ketorolac is that its indication is post-operative pain management,” says Muller, who administers the drug to women who have just undergone ovarian tumor surgery. “So, while giving the drug for its intended purpose, we have the ability to see how it’s distributed and its effects.”

The team hopes this study will soon lead to a new clinical trial to delay or stop the recurrence of ovarian cancer. “This project is a result of the highly collaborative environment at UNM,” Hudson says. The study’s successes so far include the development of new research paradigms that might lead to cures for other diseases, she says. “The richness of the ideas and the ability to problem-solve in a different way has been so rewarding.”
Forty-eight thousand Americans will be diagnosed with leukemia this year, and nearly half will succumb to the disease. Finding better treatments requires a deeper understanding of what goes wrong in leukemia cells, then using that information to design precision therapies.

“The human genome is complicated – even more so in leukemia cells than normal cells,” explains molecular geneticist Scott Ness. “That’s what we’re trying to understand.”

Ness and his team are studying human genes in much greater detail than ever before. They’re learning more about how genes produce intermediate molecules called RNAs, which through a complicated process called alternative RNA splicing, can cause dangerous mutations.

“Leukemias have more alternative RNA splicing and make many more types of RNA than normal cells,” Ness says. “We’re trying to understand what goes wrong with this process and how this alternative splicing is important to the disease process.”

This is an ambitious project, with a large team of investigators performing genome sequencing and advanced data analysis. “This alternative splicing could just be a side effect of being a leukemia cell,” Ness says, “or it could be a fundamental part of what makes a leukemia cell bad.” If it isn’t just a side effect, there might be potential benefits for leukemia patients, Ness says. Cancer could be caught sooner, and new drugs could be developed that target this process before it spins out of control.

Principal Investigator
Scott A. Ness, PhD, Professor, Internal Medicine, Section of Molecular Medicine; Associate Director, UNM Cancer Center

Grant Name
National Cancer Institute Provocative Questions Initiative: Alternative RNA Splicing and Variant Protein Products in Leukemia Outcome

Grantor
NIH – National Cancer Institute
Leo Gonzales sits down for what appears to be an ordinary eye exam. Dr. Arup Das asks him to look up, then down and asks how his eye is doing. Then, as Gonzales reclines on a bed, Das leans over with a syringe and carefully delivers an injection directly into his right eye. Diagnosed with diabetes in 1995, Gonzales moved to Albuquerque from Roswell a year ago to be close to Das for regular treatments. He couldn’t have placed himself in better hands. Chief ophthalmologist Das and basic scientist Paul McGuire are partnering to find a cure for blindness caused by diabetic retinopathy, which threatens the 19.7 million Americans (and 150,000 New Mexicans) living with diabetes.

Ten to 15 years after a diabetes diagnosis, patients develop retinopathy, which causes blood vessels to leak into the light-sensitive central rear portion of the eye, called the macula. This causes macular edema (swelling) and gradual vision loss. Current treatment options include injections or laser therapy. Gonzales has received both within the past year. “The results are tremendous,” he says. “My right eye couldn’t see anything, and now I can see about 10 feet in front of me.”

The injectable drug targets VEGF, one of several molecules in the eye that contributes to this leakage. “VEGF has been extensively studied, but isn’t the optimal target for treatment,” Das explains. “The effect of these drugs is transient. Some patients you have to inject for months, years even. If you stop injections, leakage may come back. Many don’t respond to treatment at all and the edema remains persistent.”

McGuire says he and Das have found great advantages in their partnership of 15 years. “Das brings the clinical view,” he says. “I bring in basic science. Together, we move forward more quickly.” The pair discovered other molecules play a prominent role in diabetic retinopathy, one of which is CCL-2, which attracts white blood cells that infiltrate the retina.

**Principal Investigator**
Arup Das, MD, PhD, Chief, Ophthalmology Division; Regents Professor, Ophthalmology, Cell Biology & Physiology; Vice Chairman of Research, Department of Surgery

**Co-Investigator**
Paul McGuire, PhD, Professor, Cell Biology & Physiology

**Grant Name**
Inflammatory Chemokines: A Novel Target in Early Diabetic Retinopathy

**Grantor**
NIH – National Eye Institute

(Left) The blood vessels of the retina in a non-diabetic subject are stained red. There are no white blood cells in the retina. (Right) White blood cells (monocytes) infiltrate the retina in a diabetic subject, resulting in inflammation. These cells are round, and stained reddish green or green.
“Can we target this monocyte ‘trafficking’ into the retina in early stages of diabetes?” Das asks. “If we can prevent this influx of white blood cells, maybe we can prevent the cascade of inflammation and vessel leakage completely.”

Unfortunately, a substantial number of patients do not receive appropriate eye care, especially in rural areas. One way to tackle this problem is through telemedicine, which Das and colleagues have begun using to expand retinopathy screening and treatment for patients throughout the state.

Meanwhile, Das sees a pressing need for new drug interventions. “I get frustrated,” he says. “I keep injecting patients. Some respond and some don’t. I’m looking forward to a day when there is a drug that’s effective that everyone will respond to, and I can see patients get better again.”

While Das and McGuire seek new treatments, Das offers some wise advice: “The most important way to prevent blindness is through diet and controlling blood sugar, blood pressure and blood cholesterol. If a patient doesn’t control their diabetes, treatments will be ineffective.”

Gonzales agrees. “If you’re diagnosed with diabetes, get on a strict diet immediately,” he says. “I never did that. I thought meds would take care of my diabetes, but here I am. Now I’m taking care of myself and eating well, and my eyes are improving.”

(Left) In diabetes, the blood vessels in the retina leak resulting in edema of the macula, and causing distortion and central vision loss. (Inset) New vessels in the retina lead to hemorrhage in the eye that results in floaters and severe vision loss.
HOW DO I
PREVENT DIALYSIS IF I HAVE DIABETES?

Picture yourself sitting for four hours, watching your blood circulate out and back into your arm. Imagine doing this three days a week... for the rest of your life. Chronic kidney disease, a near certainty for people with untreated diabetes, commits sufferers to a lifetime of dialysis.

At Zuni Pueblo, where kidney disease is a serious health challenge, Raj Shah has spent the last 16 years helping people avoid that fate through community-based prevention in collaboration with the Zuni tribal administration, Indian Health Services and other Zuni health programs.

Now, he is training health representatives to monitor diabetes and kidney disease patients in their homes and promote healthier dietary and lifestyle choices. “These representatives are Zuni, understand the culture, and speak the language,” Shah says. “Participants will choose their own treatment options and the representatives will help them achieve their goals.”

Zunis are 18.5 times more likely to develop chronic kidney disease than Caucasians and 5.3 times more likely than other Native Americans. Once Zunis develop kidney disease, they reach the point of needing dialysis much faster. And dialysis is the only option—it’s against traditional beliefs to receive a kidney transplant.

Eileen Lois Tzunie joined Shah’s program four years ago when she was diagnosed with diabetes. “I learned not to eat junk food and sweets,” she says. “I also exercise as much as possible and take my medication. Right now, I’m doing good.”

While there is no absolute solution to avoid dialysis, Shah says, if you do everything possible to be healthy, you will likely be able to live a longer, happier life.

“AMA HON ANSAM’ONA DOBINDE TSE’MAKWINN ASHANNA, DEMŁA A:HOI HON YANSATDUNAP’DU.”
(English: “Let’s have a vision to help all human beings!”)
To understand what an asthma attack feels like, grab a straw and try to breathe through it. Fortunately, there are potent drugs that can help control symptoms, but until recently, little was known about the long-term health effects when used by children.

Hengameh Raissy, who took part in the largest and longest prospective asthma study ever conducted, has found that these inhaled corticosteroids permanently stunted growth, leaving patients nearly half an inch shorter on average as adults.

Raissy recently completed UNM’s component of the Childhood Asthma Management Program (CAMP), which began in 1993 with approximately 1,000 children in the US and Canada, ages 5 to 12. These children received inhaled corticosteroids or a placebo for four years. The remainder of the study period consisted of follow-ups and observation.

The study yielded 140 scholarly articles regarding environmental and genetic factors of asthma, which is the most common chronic health condition in children. Investigators examined how corticosteroids affect lung growth, eyes, bone density and more. A recent *New England Journal of Medicine* article from the study focused on height. “We knew one side effect of corticosteroids was growth suppression,” Raissy says, “but it was thought a person would eventually ‘catch up.’ We found there was no ‘catch up,’ and patients were an average 1.1 centimeters shorter as adults.”

However, participants did experience more symptom-free days. “There was a 40 percent decrease both in hospitalization and urgent care visits,” Raissy says. “If inhaled corticosteroids can prevent asthma symptoms, it’s worth being 1.1 centimeters shorter.”

Marisa Wootton, who participated in CAMP from the age of 5 to 24, says her asthma was much worse when she was younger. “My asthma is exercise induced, but I’m now able to control it,” she says. Now a soccer coach, she says she recognizes symptoms of asthma in the kids she coaches. “I teach them how to regulate their breathing so they don’t have an attack.”
Fifteen-year-old Adam Myers loves to play basketball. Left to his own devices, in the summer months he will literally play all day and all night, until his mom makes him come inside and go to bed.

But eight years ago, Adam became seriously ill and was admitted to UNM’s Children’s Hospital with a rare form of chronic kidney disease related to immune-system malfunction. That’s when he met Craig Wong, a UNM kidney specialist who has been leading an international study of 1,400 young kidney patients like Adam.

“We want to find new cures and therapies for the kids I see in my clinic – that’s what really drives me to do this science,” says Wong. “It’s hard to say to a parent, ‘Your child has chronic kidney disease and their kidneys are going to fail. We can slow it down, but eventually it’s going to lead to kidney failure and we’ll have to talk about dialysis and transplant.’”

Adam was only 7 when he inexplicably fell ill. “At first, doctors kept saying that he just had a virus,” remembers his mother, Delilah Myers. “But then he got worse – high fever, sore throat and really bad pain in his leg.”

Most children with kidney disease have it from birth. Sometimes the disease develops spontaneously, as it did for Adam, or is the result of an injury to the kidney. Currently, there is no way to stop its progression once the kidney is damaged. Adam and Delilah hope that by participating in research, future children with chronic kidney disease will have more options.

Under Wong’s direction, UNM is part of Chronic Kidney Disease in Children (CKiD), a nationwide network that seeks to more fully understand pediatric kidney failure. Researchers are studying how chronic kidney disease affects the heart, growth and neurocognitive function to improve care and develop new therapies. The CKiD study...
Adam, his family and his team of doctors have been battling his kidney disease for many years. He eventually needed treatment for kidney failure through the UNM Pediatric Dialysis program and recently had a kidney transplant performed at the UNM Children’s Hospital in collaboration with the hospital’s Kidney Transplant Services. Delilah is the donor – she jokes now about how he recovered much more quickly from the surgery than she did.

Adam’s enthusiasm for playing basketball sometimes makes her and his coach nervous (he wears a special belt to protect his new kidney), but Adam doesn’t worry much or let the disease get in his way.
Every day, each of us breathes in dangerous toxins like carbon monoxide, ground-level ozone, lead, nitrogen dioxide, particulate matter and sulfur dioxide. That troubles Matthew Campen, who’s been studying such common pollutants as engine exhaust and wood, coal and tobacco smoke since 1991.

Campen knows these toxins cause serious damage to the human body beyond the lungs. “Air pollution is associated not just with respiratory diseases, but also cardiovascular disease,” he says. “Epidemiological studies have long shown that there are increased cardiovascular deaths on bad air pollution days. But it’s unclear why something you breathe in – that doesn’t really physically get past the lungs – causes vascular disease.”

So Campen and his team are digging deeper. “From a public health standpoint, it’s important that we learn more about how the everyday pollutants we’re all exposed to affect us and remain aware that highway-related emissions are still a significant health problem,” he says.

Campen suspects that when we inhale air pollutants, potent particulates and gases somehow alter our blood chemistry, causing vascular inflammation. His team is investigating the biological pathways these toxins exploit to access the vascular system, and ultimately how they lead to cardiovascular insult. “We’re taking what we’re learning from air pollution and lung disease and linking it back to coronary artery disease,” he explains.

“I’m a discovery person – I look for the ‘eureka’ moment,” Campen says. “I live for designing studies where we have a hypothesis, we do an experiment and we prove it. Our biggest challenge is to ensure that what we see at the molecular level is actually something that translates to humans.”

Studies have shown that when an air pollutant bypasses the lungs to reach a blood vessel, it’s not as damaging as when it is inhaled, Campen says. “We’ve also discovered a blood-borne signal originating in the lung – but found outside of the lung – that causes inflammation in blood vessels and the brain. So there’s something essential to various pollutants entering the lungs first.”
Campen believes that damaged proteins or fragments of proteins he calls ‘molecular shrapnel’ are formed following exposure to toxic pollutants. When they breach the lungs and enter the blood stream, the cells lining the blood vessels become irritated. “They think the molecular shrapnel is a sign of damage,” he says, “so they respond appropriately with inflammation, which can contribute to long-term heart disease.”

No single chemical in air pollution appears to be responsible, Campen says. “When gaseous and particulate portions of exhaust combine, gases adhere to particles, which seems to make it more toxic to the cardiovascular system,” he says. “We need to know which pollutants are most potent, how they affect other parts of the body, and which people are most susceptible.”

The good news, Campen says, is that the health risks from air pollution can be reduced. “Try not to locate or exercise in industrial areas or near transportation corridors,” he suggests. Genetics and nutrition also play a role. “We think that polyunsaturated fats already present in the lungs help protect the lungs and body from generating these ‘molecular shrapnel’ – these fragments of proteins,” he says. “So a diet of polyunsaturated fats is good for our lungs. Vitamin C also is a great defense for your lungs.”

Cross-sectional slices of aortas reveal an upregulation of matrix metalloproteinase-9 (MMP9), shown in red, following exposure to a combination of gasoline and diesel emissions. MMP9 is an enzyme known to cause the growth of atherosclerotic plaques, which are central to major heart diseases and stroke. Green and blue fluorescence represent extracellular matrix and nuclei, respectively.

Principal Investigator
Matthew Campen, PhD, Associate Professor, Pharmaceutical Sciences, UNM College of Pharmacy

Grant Name
Enhancement of Coronary Constriction by Organic Air Toxics

Grantor
National Institute of Environmental Health Sciences
What Are the Long-Term Effects of Uranium Mining on Navajo People?

From 1944 to 1986, some four million tons of uranium ore were mined within the Navajo Nation, leaving behind more than 500 abandoned mines, 1,100 abandoned waste sites and a legacy of environmental contamination. UNM researcher Johnnye Lewis is leading an investigation of its generational impacts on the health of Navajo mothers and babies.

Lewis previously has shown a link between uranium-contaminated water and soil and high rates of kidney disease in Navajo communities. With the Navajo Birth Cohort Study, she is examining whether contamination relates to reproductive outcomes, congenital disorders and developmental disabilities. “The Navajo Birth Cohort Study developed out of these earlier initiatives because people wanted to know how this contamination is affecting their children,” Lewis says.

She and her team are recruiting 1,500 mother/baby pairs from six regional medical centers in the Navajo Nation. Pregnant women provide urine and blood samples and their babies are later monitored for a year to assess growth and developmental progress. Study coordinators also conduct home environmental assessments with families and provide referrals for such needs as prenatal care and developmental disability services.

The study is a collaboration between the Navajo Nation, federal agencies, Navajo community health workers and UNM researchers. Anna Rondon, a project manager with the Navajo Division of Health, believes that the study is a critical step in building research capacity and influencing health policy.

“This project is very historic for Navajo and indigenous people across the world;” she says. “Navajo women are now conducting research, and health providers are asking questions about environmental contaminants. We want to find healing. We want to find the monster and rename it, and obliterate the diseases from uranium mining.”
HOW CAN WE POWER-UP OUR IMMUNE SYSTEMS FROM THE INSIDE?

Autophagy is nature’s way of cleaning house. Tiny, autonomous vacuum cleaners zip around inside a cell, ingesting bits and pieces of worn-out proteins, malfunctioning parts and invading microorganisms. Scientists have begun to decipher this extraordinary process, and are coming to understand how vital autophagy is to human health.

Vojo Deretic and postdoctoral fellows Michael Mandell and Santosh Chauhan are trying to harness the power of this innate immunity as a therapy for a variety of diseases. Deretic and his team have launched interrelated projects to discover how to encourage autophagy to treat people with dual HIV and Mycobacterium tuberculosis infections. It’s a deadly disease combination, because people with weakened immune systems are more vulnerable to TB’s most severe effects.

TB is the leading cause of death among people living with HIV, with co-infection most prevalent in Sub-Saharan Africa. Emerging strains of drug-resistant TB are on the rise, further reducing the options available to treat these patients. Mandell and Chauhan have isolated autophagy-specific proteins and molecules that are part of a complex intracellular communication system responsible for making things happen inside the cell.

With this new understanding, the team is using high-tech molecular equipment and computational tools to search for FDA-approved drugs that might encourage autophagy to fight infection in a clinical setting.

“Every pathogen has its own story – they become so specialized,” says Deretic, who began his research career in developmental biology studying sea urchins. “With autophagy, what you have is a general answer to many different questions. That’s the beauty of it for me.”
Tudor Oprea spends his days searching for needles in haystacks. As futile as that sounds, he loves the challenge and teamwork that come with seeking elusive new applications for existing medicines.

“On average, it takes about 10 to 15 years and up to $2 billion to put a new drug on the market,” Oprea says. “Academia can’t afford that, so we use ingenuity and adaptive performance to seek new uses for already approved drugs.”

As chief informaticist for the UNM Center for Molecular Discovery, Oprea leads a team that manages the hundreds of terabytes of data accumulated from chemical library screening the center has conducted over the past decade. His primary data source is the high-throughput flow cytometer, invented by center director Dr. Larry Sklar. This advanced instrument runs thousands of cytometric assays per hour in search of a yet-unidentified puzzle piece that might reveal new treatments for cancers, infections or other diseases.

Oprea’s team also is using virtual screening, a computer-based method of formulating hypotheses, to focus on products that have been on pharmacy and even grocery store shelves for years.

“We’re covering about 50,000 FDA-approved drugs, which contain about 1,600 active pharmaceutical ingredients,” Oprea says. “We’re rapidly sifting through immense data sets, evaluating their impact on cells – and even whole biological systems – and comparing that information with knowledge distilled from indications, off-label prescription use and adverse event reports.”

Housed in the newly renovated Innovation, Discovery and Training Complex, Oprea’s computers are constantly humming as he and his team continue the search for new uses for already approved therapeutics, awaiting the flash of insight that comes with discovery.
An innovative new partnership between UNM’s College of Nursing and the New Mexico Veterans Affairs Health Care System will help meet the health care needs of the state’s veterans for decades to come.

The College was one of only six schools chosen to participate in the prestigious Veterans Affairs Nursing Academy Partnership (VANAP) program, which will fund an expansion of the nursing workforce, from faculty to students to practitioners.

It will allow the College to increase undergraduate nursing enrollment, faculty and clinical placement with an emphasis on the bachelor of science in nursing degree (BSN). An additional eight students will be admitted each fall, and 16 additional students each spring over the next four years, for a total of 96 new nurses funded by the grant.

“Veterans comprise nearly 20 percent of New Mexico’s population,” says Nancy Morton, undergraduate program director in the College and VANAP co-director. “This partnership will significantly advance care for our veterans statewide, as we develop clinical sites to prepare nurses for the future of health care delivery.”

“Educating a high-quality workforce in veteran-centric care is a challenge,” adds Cynthia Nuttall, RN, New Mexico VA Health Care System associate chief of nursing for professional practice and VANAP co-director. “This grant allows us to increase our BSN-prepared nurses throughout New Mexico who are knowledgeable regarding veterans’ specific health care needs.”
Poor oral health has been linked to a host of health problems, such as heart disease and diabetes, yet too many New Mexicans fail to receive routine preventive dental care. UNM and community health providers have teamed up to address this problem by incorporating oral health into a team-based primary care setting.

Patients receiving an exam at the El Pueblo Health Services Clinic in Bernalillo, NM, are seen by a primary care physician, a dentist and a nurse practitioner, says Peter Jensen, director of UNM’s Advanced Education in General Dentistry residency program.

“We’re finding it’s a good dynamic to have all of the practitioners in the room,” Jensen says. “We’re really starting to feed off one another as we focus on wellness checks for diabetics, pregnant moms and kids.”

The program, implemented with the help of a grant and faculty from the College of Nursing and the School of Medicine’s Department of Dental Medicine, relies on CAMBRA (Caries Management by Risk Assessment), a tool dentists use to assess cavity and gum disease risk.

“CAMBRA is becoming part of our physicals, regular exams, wellness checks and so forth,” says Rick Adesso, El Pueblo’s executive director. “So we have our primary care physicians and nurse practitioners looking closer for oral health problems.”
El Pueblo is a private non-profit clinic in Bernalillo, 15 miles north of Albuquerque. Anyone is eligible to receive services, and no one is denied care due to their inability to pay. “We’re not building a dental clinic within a health clinic,” says project director Barbara Overman. “This is an effort at integrating two historically independent health care services.”

El Pueblo patient Connie Welsh said the experience has been eye-opening. “I’d been going to the emergency room for the pain in my mouth,” Welsh says. “I definitely learned more about what’s happening, and have been going to Pima Medical Institute for more regular cleanings and work.”

Improving New Mexicans’ oral health is likely to pay off in the long run. More than 37 percent of the state’s third graders have untreated tooth decay, while only 64 percent of state residents have had their teeth cleaned in the past year.

Six months into the grant, this diverse health team has developed an unexpected symbiosis. “This is an exciting approach to improving patients’ overall health,” Overman says. “We’re developing these collegial relationships among professionals of differing disciplines, and we’re all expanding our knowledge base. We want to improve our patients’ care and train others to do the same. We have an opportunity to put out the best care possible.”

The team hopes its work will become a model for rural areas where dental services are in short supply. They’re also incorporating it into curricula in the College of Nursing, says Dean Nancy Ridenour, the project’s principal investigator. “As frontline practitioners begin to integrate oral care into their services, they’ll have yet another part of the body that speaks to patient health,” she says.
The Fifth Annual Research Day Awards Ceremony was held October 16, 2013, in Domenici Center Auditorium. For the Excellence in Research Awards, four colleagues were nominated by their peers and selected by a faculty committee for outstanding research contributions.

**Award recipients were recognized for their excellence in research in four categories:**

**Basic Science Research**
- Nora Perrone-Bizzozero, PhD

**Clinical Science Research**
- Kathleen Haaland, PhD

**Population Science Research**
- Deborah Helitzer, ScD

**Junior Faculty Research**
- Pamela Hall, PhD

**Past Excellence in Research Award Winners:**

- **2012**: Bridget Wilson, PhD; Sanjeev Arora, MD, FACP, FACG; Sarah Lathrop, DVM, PhD; Nikki Jernigan, PhD
- **2011**: Larry Sklar, PhD; David Schade, MD; Johnnye Lewis, PhD; Erin Milligan, PhD
- **2010**: Gary Rosenberg, MD; Melanie Royce, MD; Marianne Berwick, PhD; Diane Lidke, PhD
- **2009**: Eric R. Prossnitz, PhD; Claire F. Verschragen, MD; Sally M. Davis, PhD; Xinyu Zhao, PhD
Profiles of Last Year’s Excellence in Research Awards Winners

**Bridget Wilson, PhD**  
*Basic Science Research, 2012*

Cell biologist Bridget Wilson is motivated by the complexity of cell behavior – how, in her words, “Component a interacts with b and c and z.” Her lab is using novel imaging techniques to model cell behavior and understand how cellular-level interactions drive disease processes, like asthma and cancer.

As director of the New Mexico Spatiotemporal Modeling Center (STMC), Wilson is deeply interested in bringing people together from multiple disciplines. “I work with clinicians, computer scientists, mathematicians, engineers and physicists,” says Wilson. “One of the greatest enjoyments for me is to sit in the middle and help to bridge disciplines to get people talking to each other.” She also serves as the director of the Hematologic Malignancies Program at the UNM Cancer Center. Wilson takes special pleasure in viewing the extraordinary images of cells produced in her lab with electron microscopy and live-cell imaging techniques. “The world that we look at is really beautiful,” she says.

**Sarah Lathrop, DVM, PhD**  
*Population Science Research, 2012*

As an epidemiologist for the Office of the Medical Investigator, Sarah Lathrop analyzes data and finds trends involving unexpected deaths in New Mexico, but her work has had significant benefits for the living.

Michelle Barry Aurelius nominated her for this award for the impact her work has on New Mexicans: “Without her investigations, we would not have the data to prevent foodborne illnesses, protect our children from death and realize that New Mexico ranks No. 1 in prescription overdose deaths.” Lathrop says, “My greatest satisfaction is working with students – to see them understand that research is really worthwhile and achievable,” she says.

Lathrop grew up on a Wisconsin farm and pursued her lifelong dream of being a veterinarian. Taking opportunities as they came, she shifted careers and eventually ended up at UNM 10 years ago. When she’s not busy analyzing data and mentoring students, she enjoys knitting, Irish step-dancing and traveling with her husband and 9-year-old son.

**Sanjeev Arora, MD, FACP, FACG**  
*Clinical Science Research, 2012*

Growing up in India, Sanjeev Arora traveled with his physician father to remote villages assisting in the government’s eradication of smallpox. The poverty and social disparities shocked Arora, who would from that point forward commit his life to making a difference.

Arora, a gastroenterologist and hepatologist, is the force behind Project ECHO, an innovative program that provides specialized medical expertise to people with complex illnesses living in rural areas. New Mexico’s challenges in providing health care access to just more than two million people scattered across more than 121,000 square miles drew Arora to UNM from New England Medical Center and the Tufts University School of Medicine in Boston.

Project ECHO (Extension for Community Health Outcomes) launched in 2004, using teleconferencing to help treat thousands of Hepatitis C patients throughout the state who couldn’t get to Arora for badly needed treatment. ECHO has since expanded to include statewide specialty care for dementia, diabetes, HIV/AIDS, addiction, psychiatry, women’s health and host of other maladies.

**Nikki Jernigan, PhD**  
*Junior Faculty Research, 2012*

Nikki Jernigan’s quiet demeanor belies her fierce determination to understand the molecular mechanisms that damage blood vessels in pulmonary hypertension.

Her path to pulmonary circulation research has been as much circumstance as design. She grew up in a large, close-knit family near Grants, NM. From her family she learned the importance of education and the value of persistence.

She often found herself in leadership positions at school through her involvement in student government and athletics. Her first undergraduate research project gave her a taste for biological research. “I’d never considered research as my career prior to that,” Jernigan says. “I was taking engineering courses along with biology courses, because my path just didn’t seem very clear.”

Now a PhD researcher in UNM’s Cell Biology Physiology lab, she finds the hunt for answers to be more compelling than ever. “The excitement of discovery is exhilarating,” Jernigan says. She feels the same outside the lab, when she’s spending time with her husband raising their two daughters.
1940s
1945
College of Pharmacy established.

1954
Bernalillo County Indian Hospital (BCIH) opens.

1955
College of Nursing begins accepting students.

1964
UNM School of Medicine opens.

1972
First centralized radiopharmacy program established.

1975
UNM Cancer Research & Treatment Center opens.

1977
UNM Medical Center established.

Research in New Mexico, 2013

- Health Extension Rural Offices
- Project ECHO
- Practice-Based Research Network
- Investigator-led Community-based Programs
1982 Biomedical Research Building opens.

1984 College of Pharmacy begins offering graduate degrees.

1986 The Center for Non-Invasive Diagnosis opens.

1994 Health Sciences Center created.


2003 Research Incubator Building opens.

2005 UNM Cancer Center receives National Cancer Institute designation.

2008 HSC receives grant for national Molecular Discovery Center.

2008 Multidisciplinary Research Facility opens.

2009 UNM Cancer Center and clinical research facility opens.

2009 Neurobiology Research Facility construction completed.

2010 The Clinical and Translational Science Center receives NIH designation.

2010 CTSC building opens.

2010 Mountain West Research Consortium created.

2010 Innovation, Discovery and Training Complex opens.

2012 Facility for Advanced Cell Engineering opens.

2013 Kidney Research Institute opens.

2013 Mountain West Research Consortium is fully recognized and funded by NIH.
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.

**Jonathan Brigman, PhD**  
K22 Scholar, NIH/NIAAA  
Research Interest: Corticostriatal networks and NMDAR medication of habitual and flexible action in the mouse

**Jon Femling, MD, PhD**  
KL2 Scholar, NIH/NCATS  
Research Topic: Apolipoprotein B mediated control of Staphylococcus aureus virulence during critical illness  
Mentors: Hattie Gresham, PhD, Pamela Hall, PhD, and Cameron Crandall, MD

**Alba A. Chavez-Dozal, PhD**  
K12 Scholar, NIH/NIGMS  
Research Interest: Molecular pathogenesis of candida albicans, including the role of secretory proteins in virulence and biofilm formation  
Mentor: Samuel Lee, MD, PhD

**Olivia George, PhD**  
K12 Scholar, NIH/NIGMS  
Research Interest: Analyzing in vivo conformational changes of a transcription factor, c-Myb, using fluorescence resonance energy transfer (FRET) technology  
Mentor: Scott Ness, PhD

**Jayne Christen, PhD**  
K12 Scholar, NIH/NIGMS  
Research Interest: Production of vaccine candidates by affinity selection using a virus-like particle platform technology  
Mentor: Bryce Chackerian, PhD

**Brian Gray, PhD**  
K12 Scholar, NIH/NIGMS  
Research Interest: Role of agr-mediated quorum sensing in gram-positive bacterial pathogens and elucidating how novel small molecular inhibitors of quorum sensing block the activation of pathogenic programs in Staphylococcus aureus  
Mentors: Hattie Gresham, PhD, and Pamela Hall, PhD

**Brian Coffman, PhD Candidate**  
T32 Scholar, NIH/NIAAA  
Research Topic: Neuroimaging of children and adolescents diagnosed with FASD, particularly for identification of neurobiological mechanisms of sensory and cognitive dysfunction  
Mentor: Julia Stephen, PhD

**John Hammond, PhD**  
K12 Scholar, NIH/NIGMS  
Research Interest: Phenotypic plasticity in mosquitoes and its effects on disease transmission  
Mentors: Helen Wearing, PhD, and Felisa Smith, PhD

**Dawn Delfin, PhD**  
KL2 Scholar, NIH/NCATS  
Research Topic: Cardiac claudin-5: mechanistic studies on its role in the heart, its downregulation during heart failure and identification of small-molecule modulators  
Mentors: Matthew Campen, PhD, Mary Walker, PhD, and Carlos Roldan, MD

**Stephanie Jerman, PhD Candidate**  
F31 Scholar, NIH/NIDCR  
Research Interest: OFD1 as a constituent of a multimeric protein complex in odontoblast primary cilia  
Mentor: Angela Wandinger-Ness, PhD

**Darrell Dinwiddie, PhD**  
KL2 Scholar, NIH/NCATS  
Research Topic: Implementing genomic medicine in a children’s hospital  
Mentors: Stuart Winter, MD, and Scott Ness, PhD

**Britta Lindquist, BA**  
F31 Scholar, NIH/NINDS  
Research Interest: Adenosine receptor activation in spreading depolarization and ischemic injury  
Mentor: Bill Shuttleworth, PhD
Russell Morton, PhD  
K12 Scholar, NIH/NIGMS  
Research Interest: Developmental alcohol exposure and the effects on serotonin signaling in the rodent hippocampus  
Mentor: C. Fernando Valenzuela, MD, PhD

Robert Oliver, BA  
T32 Scholar, NIH/NIAAA  
Research Topic: Drug and alcohol addiction, with emphasis on micro-RNAs  
Mentor: Nora I. Perrone-Bizzozero, PhD

Jennifer Pascal, PhD  
K12 Scholar, NIH/NIGMS  
Research Interest: Predicting patient response to chemotherapy using mathematical modeling  
Mentor: Vittorio Cristini, PhD

Sarah Pirio-Richardson, MD  
KL2 Scholar, NIH/NCATS  
Research Topic: Non-invasively altering plasticity in the brain, using transcranial magnetic stimulation, to improve symptoms and quality of life in patients with movement disorders  
Mentors: Bill Shuttleworth, PhD, and Leslie Morrison, MD

Summer Raines, PhD  
K12 Scholar, NIH/NIGMS  
Research Interest: V-ATPase function in C. albicans physiology and the role of organelle pH as a determinant of virulence-associated traits  
Mentor: Karlett Parra, PhD

Sabrina Samudio-Ruiz, PhD  
K01 Scholar, NIH/NCI  
Research Interest: EGF receptor, DNA methylation, and platinum resistance in ovarian cancer  
Mentor: Laurie Hudson, PhD

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

Akshay Sood, MD, MPH  
K23 Scholar, NIH  
Research Interest: Obesity-related host susceptibility factors for asthma in women  
Mentors: Marianne Berwick, Ph.D., Mark Schuyler, MD, and Clifford Quails, Ph.D.

Miranda Staples, PhD  
F31 Scholar, NIH/NIAAA  
Research Interest: Consequences of prenatal ethanol exposure and maternal stress on offspring  
Mentor: Dan Savage, PhD

Robert Taylor, PhD  
K12 Scholar, NIH/NIGMS  
Research Interest: Genomic analysis of hepatocellular carcinomas using next generation sequencing and superparamagnetic nanoparticle synthesis for cancer applications  
Mentor: Rama Gullapalli, MD, PhD

Lauren Topper, BSc  
T32 Scholar, NIH/NIAAA  
Research Interest: Effects of developmental ethanol exposure on glutamatergic transmission in the hippocampal CA3 region  
Mentor: C. Fernando Valenzuela, MD, PhD

Kelly M. Trujillo, PhD  
K22 Scholar, NIH  
Research Interest: Role of histone H2B ubiquitylation in DNA replication  
Mentor: Mary Ann Osley, PhD

Gloriana Trujillo, PhD  
K12 Scholar, NIH/NIGMS  
Research Interest: Investigating the genetic and temporal control of Wg on ostia formation in the drosophila melanogaster dorsal vessel  
Mentor: Richard Cripps, D.Phil.

Sonlee West, MD  
KL2 Scholar, NIH/NCATS  
Research Interest: The immune response to trauma  
Mentors: Arup Das, MD, PhD, and Carolyn Mold, PhD

Claire Wilcox, MD  
K23 Scholar, NIH/NIAAA  
Research Interests: Neural mechanisms of change during treatment of alcohol use disorder with prazosin  
Mentor: Michael Bogenschutz, MD
HSC ANNUAL REPORT OF CONTRACTS & GRANTS

BY THE NUMBERS

$149,797,916
Total awards in FY13

40%
Award increase since 2004

273
Principal investigators

286
Number of awards for health research with underrepresented minorities

1,244
Proposals submitted

807
Proposals awarded

1 of 40
Institutions nationally to have both an NIH-designated Clinical and Translational Science Center and NIH-designated Cancer Center

30
Business start-ups over 10 years

351
Number of community research study sites in New Mexico
### Chancellor for Health Sciences

**Deborah Helitzer**  
University of Wyoming .............................................................. $5,000  
Undergraduate Pipeline Network Summer Research Experience

**Richard Larson**  
Lovelace Respiratory Research Institute ...................................... $53,128  
LRR/BSG Fellowship Agreement

**Paul B. Roth / Richard S. Larson**  
Association of American Medical Colleges ................................. $107,100  
Developing a Workforce to Improve Health and Reduce Disparities

### Office of Community Health

**Arthur Kaufman**  
Molina Healthcare of New Mexico .............................................. $1,890  
Community Health Worker Care Coordination Model

New Mexico Department of Health ............................................. $204,493  
New Mexico Immunization Coalition

New Mexico Department of Health ............................................. $204,492  
New Mexico Immunization Coalition

New Mexico Department of Health ............................................. $11,500  
New Mexico Immunization Coalition

**Sarah Lathrop**  
New Mexico Department of Health ............................................ $931,118  
New Mexico Emerging Infections Program

**Veronica Plaza**  
Southwest Creations Collaborative .............................................. $49,000  
Hacia la Universidad in Albuquerque Public Schools

### Health Sciences Library & Informatics Center

**Patricia Bradley**  
Houston Academy of Medicine ................................................ $15,000  
Outreach 2013-2014

**Gale Hannigan**  
Houston Academy of Medicine ................................................ $5,000  
I Heard It On The Radio  
Houston Academy of Medicine ................................................ $5,000  
Improving Access to Health Information by Residents and Providers in a Homeless Shelter

### Office of Research

**Richard Larson**  
Lovelace Respiratory Research Institute .................................... $71,425  
LRR/BSG Fellowship Agreement

### Animal Resource Facility

**Richard Larson**  
New Mexico VA Health Care System .......................................... $24,085  
Veterinary Services for the New Mexico Veterans Affairs Health Care System

**Locum Tenens**

**Carolyn Voss**  
New Mexico Department of Health ............................................ $150,000  
Locum Tenens Services for Turquoise Lodge Hospital

**Cheryl Willman**  
Department of Health & Human Services/Indian Health Service ....... $25,000  
Outpatient Professional Oncology Diagnostic and Therapeutic Services

### Clinical and Translational Science

**Christopher Abbott**  
Dana Foundation ................................................................. $200,000  
Biomarkers of ECT Response and Relapse in Major Depressive Disorder

**Ellen Beswick**  
University of Texas Medical Branch at Galveston ....................... $8,818  
The Role of Alters B7-Homologue Expression by Intestinal Subepithelial Myofibroblasts in Inflammatory Bowel Disorder

**Marco Bisoffi**  
University of California-Davis .................................................. $60,000  
Development of a Rapid Point of Care Biosensor for the Detection of Blood-Borne Viruses

**Mark Burge**  
University of Utah ..................................................................... $73,192  
Iron-induced Oxidative Stress and Mitochondrial Dysfunction: Effects on Insulin Secretion and Insulin Sensitivity-CTSC Affiliate

**Richard Larson**  
NIH/National Center for Advancing Translational Sciences .......... $3,849,555  
Clinical and Translational Science Center - UL1 - Year 4

NIH/National Center for Advancing Translational Sciences ........ $307,137  
Clinical and Translational Science Center - KL2 - Year 4

Biomedical Research Institute of New Mexico .......................... $20,000  
Exercise Interventions During Voluntary Weight Loss in Obese Older Adults
The Mind Research Network .................................................. $13,015
Sensitivity to Intravenous Ethanol: Neuroimaging and Behavioral Phenotypes
Biomedical Research Institute of New Mexico ....................... $9,889
Exercise Interventions During Voluntary Weight Loss in Obese Older Adults
The Mind Research Network .................................................. $2,469
Sensitivity to intravenous ethanol: Neuroimaging and Behavioral Phenotypes

SARAH RICHARDSON PIRIO
Emory University ................................................................. $78,925
Dystonia Coalition Clinical Project
Dystonia Medical Research Foundation ................................ $50,000
Identification of Optimal Stimulation Site for Cervical Dystonia

AKSHAY SOOD
National Institutes of Health ................................................ $176,264
Obesity-Related Host Susceptibility Factors for Asthma in Women
Lovelace Biomedical & Environmental Research Institute ....... $17,511
Biomarker Signature in COPD

ROBERT WILLIAMS
National Institutes of Health ................................................ $598,500
New Mexico Center for Advancement of Research, Engagement and Science on Health Disparities
National Institutes of Health ................................................ $263,590
New Mexico Center for Advancement of Research, Engagement & Science on Health Disparities - P20 Supplement

Financial Aid

MARY FENTON
Health Resources and Services Administration ..................... $650,000
Scholarships for Disadvantaged Students - Allopathic Medicine
Health Resources and Services Administration ..................... $609,635
Scholarship for Disadvantaged Students - Allopathic Medicine
Health Resources and Services Administration ..................... $465,000
Scholarships for Disadvantaged Students - Medical Laboratory Sciences
Health Resources and Services Administration ..................... $436,123
Scholarship for Disadvantaged Students - Medical Laboratory Sciences
Health Resources and Services Administration ..................... $4,517
Loan for Disadvantaged Student - Allopathic Medicine

COLLEGE OF PHARMACY

LUDMILA BAKHIREVA
University of California, San Diego .................................... $50,000
Organization of Teratology Information Specialists Research Network

BLAINE BENSON
National Capital Poison Center .. $112,865
Creating a Virtual Poison Center
Health Resources and Services Administration ..................... $111,270
Poison Control Stabilization and Enhancement Program
Health Resources and Services Administration ..................... $1,000
Poison Control Stabilization and Enhancement Program

RUCHA BOND
American Association of Colleges of Pharmacy ..................... $7,590
Creation and Pilot of an Experiential Observational Professionalism Assessment Tool

SCOTT BURCHIEL
National Institutes of Health ................................................ $303,222
Synergistic Immunosuppression by PAHs and Arsenite

MATTHEW CAMPEN
University of Washington ................................................... $40,000
Systematic Inflammatory Potential of Inhaled Coarse Particulates
University of Washington ................................................... $37,750
Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions
University of Washington ................................................... $36,959
Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions
PGTi Biosciences Inc. ......................................................... $25,500
Efficacy Testing of Novel Compounds Reversing MCT-Induced Pulmonary Hypertension in a Rat Model
University of Texas, El Paso .................................................. $19,026
Chronic Particulate Matter Exposure, Inflammation and Atherogenesis in At-Risk Children
Corridor Pharmaceuticals, Inc. .............................................. $4,000
Pharmacokinetic Pilot Study of Novel Test Article

PAULINA DEMING
Janssen Pharmaceutical .................................................. $3,040
Simprevir Observational Effectiveness Across Practice Setting Study, Protocol Development External Working Group Meeting

MELANIE DODD
Association of American Medical Colleges ......................... $2,000
Interprofessional Geriatric Assessment Elective for Health Professional Students: A Standardized Patient Case Study and Patient Script

CHANGJIAN FENG
National Science Foundation .............................................. $100,000
Molecular Mechanism of Nitric Oxide Synthase Regulation
National Science Foundation .............................................. $100,000
Mechanism of Nitric Oxide Synthase Regulation by interdomain FMN/heme Docking

LARRY GEORGOPoulos
First Choice Community Healthcare ..................................... $162,120
Pharmacist Consultant Agreement
First Nations Community Healthsource, Inc. ......................... $6,000
First Nations Community Healthsource, Inc.

PAMELA HALL
National Institutes of Health ................................................ $339,751
Apolipoprotein B and Control of S. aureus Quorum Sensing
COLLEGE OF PHARMACY (continued)

National Institutes of Health .................................................. $46,259
Apolipoprotein B and Control of S. aureus Quorum Sensing - Diversity Supplement
National Institutes of Health .................................................. $29,466
Apolipoprotein B and Control of S. aureus Quorum Sensing
Sandia National Laboratories .................................................. $22,650
In Vivo Delivery of Antibiotic Compounds Using Protocells
National Institutes of Health .................................................. $15,100
Apolipoprotein B and Control of S. aureus Quorum
NIH/National Institute of Allergy and Infectious Diseases .................. $2,054
Apolipoprotein B and Control of S. aureus Quorum Sensing

LAURIE HUDSON
U.S. Department of Defense .................................................. $527,399
Inhibition of Small GTPases as a Novel Therapeutic Approach in Ovarian Cancer
National Institutes of Health .................................................. $203,850
Predicting Novel Arsenic Targets in DNA Repair Pathways
NIH/National Institute of Environmental Health Sciences ............... $169,875
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins
National Institutes of Health .................................................. $136,172
Capitalizing on NSAID Enantiomer Selectivity for Cancer Therapy (PQS) (MPI)
NIH/National Institute of Environmental Health Sciences ............... $166,478
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins

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

JIM LIU
National Institutes of Health .................................................. $169,875
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins
National Institutes of Health .................................................. $166,477
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins
National Institutes of Health .................................................. $4,000
The 7th Conference on Metal Toxicity and Carcinogenesis

RENEE CLAUDE MERCIER
VA Palo Alto Health Care System .......................................... $171,637
Healthcare Associate Infection & Influenza Surveillance System

Hartford Hospital ................................................................. $2,700
Hartford Hospital Microbiology Data
Cubist Pharmaceuticals .......................................................... $1,500
Research Study Agreement

JEFFREY NORENBERG
invivCRO ................................................................. $494,325
Task 17 May 2012: 68Ga Labeling of DOTA-Conjugated Peptide: Labeling Optimization and Kit Formulation
Los Alamos National Laboratory ............................................ $149,620
Evaluation of Radiochemistry of Ac-225/Bi 213 Produced Via Alternate Methods
invivCRO ................................................................. $50,480
Task 18: Peptides Ahx-STp(5-18)
invivCRO ................................................................. $40,299
Task 21: SPECT/CT Imaging of 99m Tc-MIBI and 201TI, co-injected, in both a mouse model of amyotrophic lateral sclerosis (ALS, JAX model # 002726) and a mouse model of spinal muscular atrophy (SMA, JAX model #005025)
invivCRO ................................................................. $13,137
Task 16 April 2012: Radiolabeling & SPECT/CT Imaging of Pegylated NBN, PEG, and lodotyrosine for Labeling Validation, Study of in Vivo Targeting and Pharmacokinetics in a Rat Model of Neuropathic Pain (CCI)
invivCRO ................................................................. $11,088
Task 19: (June 2012) Radiolabeling & SPECT/CT Imaging of Pegylated NBN & an Anti REF Fab 2 Study of in Vivo Targeting and Pharmacokinetics in Wild-type Mice
invivCRO ................................................................. $8,932
invivCRO ................................................................. $3,542
Task 15: Peptides Ahx-STp(5-18)

DENNIS RAISCH
University of South Carolina ................................................. $60,674
Southern Oncology Network on Adverse Reactions (SONAR)
University of South Carolina ................................................. $4,000
Who's Watching MedWatch: An Assessment of Hematology-Oncology Drugs and VTE Reporting

SABRINA L. SAMUDIO-RUIZ
NIH/National Cancer Institute ............................................... $114,405
EGF Receptor, DNA Methylation and Platinum Resistance in Ovarian Cancer

GRAHAM TIMMINS
STC@UNM ............................................................... $25,000
Magnetodynamic Activation of 13C-Acyl-Isoniazid

MARY WALKER
NIH/National Institute of Environmental Health Sciences ............... $453,000
Human CYP1A1, Diet and Dioxin-Induced Hypertension (AREA Grant)

LYNDA WELAGE
Cubist Pharmaceuticals ....................................................... $15,000
Professional Speaker Agreement (Renee Mercier)

MICHELLE TRACI WHITE
Mesilla Valley Hospice ....................................................... $35,151
Mesilla Valley Hospice Pharmacist Clinician Agreement

KRISTINA WITTMOSTR
Triad Isotopes, Inc. ............................................................. $2,500
Tc-99m Radiolabeling of Red Blood Cells
### COLLEGE OF NURSING

**MARY ANDERSON**  
Central Region Educational Cooperative ........................................... $162,333  
Central Regional Educational Cooperative  
ACE Leadership High School ........................................................... $49,999  
The Board of Architecture, Construction, and Engineering Leadership High School  
First Nations Community Healthsource, Inc ....................................... $46,008  
First Nations Community Healthsource, Inc.

**DEBRA BRADY**  
Robert Wood Johnson Foundation ................................................. $300,000  
Academic Progression in Nursing

**SALLY COHEN**  
Robert Wood Johnson Foundation ................................................. $1,755,665  
RWJF Nursing & Health Policy Collaborative and University of New Mexico

**JEAN GIDDENS**  
New Mexico Higher Education Department .................................... $96,758  
FY 2013 Nursing Enhancement Program

**AMY JO LEVI**  
Kesselman ................................................................. $2,700  
Kesselman-Jones

**ROBIN MEIZE-GROCHOWSKI**  
Altarum ................................................................. $109,990  
Center of Excellence in Pain Education

**BARBARA ANN OVERMAN**  
El Pueblo Health Service .............................................................. $57,656  
El Pueblo Health Services

**NANCY RIDENOUR**  
El Pueblo Health Service .............................................................. $448,678  
Innovation in Primary Care Oral Health: Interprofessional Team Practice/Model  
City of Albuquerque ............................................................... $147,000  
Health Services Coordination  
City of Albuquerque ............................................................... $50,000  
Geriatric Education & Health Maintenance (GEHM Clinic)  
City of Albuquerque ............................................................... $14,000  
Health Services Coordination

**BETH LIND RODGERS**  
DeVilbiss Healthcare .............................................................. $28,000  
Effects of Increased Engagement on CPAP Adherence and Therapy Outcomes

### SCHOOL OF MEDICINE

**VALERIE ROMERO-LEGGOTT**  
Health Resources and Services Administration ................................ $728,297  
Hope, Enrichment, and Learning Transform Health in New Mexico

**CAROLYN VOSS**  
New Mexico Department of Health ................................................ $1,179,731  
Sustain Level 1 Trauma Center Designation & Improve Viability  
New Mexico Department of Health ................................................ $19,500  
Think First Injury Prevention Project  
New Mexico Department of Health ................................................ $14,318  
Vasectomy Sterilization Surgical Procedures Project

### Anesthesiology

**JONATHAN MARINARO**  
Kindred Hospital (Transitional Hospitals Corp of New Mexico) ........... $64,800  
Medical Director

**ISAAC TAWIL**  
DCI Donor Services .......................................................... $19,777  
Medical Director Services

### Biochemistry and Molecular Biology

**NATALIE ADOLPHI**  
National Institute of Justice ....................................................... $574,868  
Investigation of the Impact of Body Temperature and Post-Mortem Interval on Magnetic Resonance Imaging of Unfixed Tissue

**JEFFREY GRIFFITH**  
New Mexico State University ....................................................... $713,055  
New Mexico IDEA Networks of Biomedical Research Excellence

**KARLETT PARRA**  
National Institutes of Health ....................................................... $285,630  
V-ATPase H+ Pump Regulation in Fuel Energy Selection

**MARTINA ROSENBERG**  
National Science Foundation ....................................................... $17,674  
Regional Workshop for Discipline Based Ed Researchers in New Mexico

**VALLABH SHAH**  
Biomedical Research Institute of New Mexico ................................ $9,966  
Exercises Interventions during Voluntary Weight Loss in Obese Older Adults  
Patient Centered Outcomes Research Institute  .................................. $693,838  
Reducing Health Disparity in Chronic Kidney Disease in Zuni Indians

**KRISTINA TRUJILLO**  
NIH/National Cancer Institute ...................................................... $197,055  
Using Biomarkers of Field Cancerization to Identify Breast Tissue at Risk for Tumorigenesis

### Cancer Research & Treatment Center

**MARIANNE BERWICK**  
University of North Carolina Medical School at Chapel Hill ............. $44,893  
Melanoma RAS/BRAF Mutation: Heterogeneity-Risk Prognosis

[Image of a scientist]  
Justine Saavedra
<table>
<thead>
<tr>
<th><strong>Cancer Research &amp; Treatment Center (continued)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MARIANNE BERWICK (CONTINUED)</strong></td>
</tr>
<tr>
<td>Memorial Sloan-Kettering Cancer Center .......... $19,200</td>
</tr>
<tr>
<td>The Framingham School Study of Nevi in Children: SONIC II .......... $10,968</td>
</tr>
<tr>
<td>Validation of the Use of Whole-Genome Amplified DNA in a Population-Based Study .......... $140,000</td>
</tr>
<tr>
<td><strong>LINDA SUE COOK</strong></td>
</tr>
<tr>
<td>NIH/National Cancer Institute ............... $542,855</td>
</tr>
<tr>
<td>Mitochondrial DNA and Ovarian Cancer Risk and Recurrences .......... $156,678</td>
</tr>
<tr>
<td>Fred Hutchinson Cancer Research Center .......... $151,711</td>
</tr>
<tr>
<td>Understanding and Preventing Breast Cancer Disparities in Latinas: Project 4 .......... $101,048</td>
</tr>
<tr>
<td><strong>ZONEDDY DAYAO</strong></td>
</tr>
<tr>
<td>Brigham and Women’s Hospital .......... $101,048</td>
</tr>
<tr>
<td>CCOP Cancer Prevention and Symptom Intervention Pilot Project Funds .......... $94,544</td>
</tr>
<tr>
<td>New Mexico Cancer Care Alliance .......... $89,674</td>
</tr>
</tbody>
</table>

| **BARBARA DAMRON** |
| NIH/National Cancer Institute .......... $140,000 |
| Administrative Supplement to Expand NCI-Supported Community Outreach Capacity Through Community Health Educators of the National Outreach Network .......... $36,000 |
| Consulate of Mexico in Albuquerque .......... $22,725 |
| **Esme Finlay** |
| Dana Farber Cancer Institute .......... $32,569 |
| INST DFCI 09-250 Coping with Cancer II .......... $370,811 |
| **Sarah Foster Adams** |
| American Cancer Society .......... $729,000 |
| Intestinal Immune Tolerance Promotes Ovarian Cancer Dissemination .......... $101,048 |
| Ovarian Cancer Research Fund, Inc .......... $143,152 |
| **Deirdre Hill** |
| NIH/National Cancer Institute .......... $237,164 |
| Towards a Transdisciplinary Understanding of Breast Cancer Survival Disparities .......... $112,632 |
| Group Health Research Institute .......... $35,562 |
| Risk Based Breast Cancer Screening in Community Settings .......... $8,000 |
| Dartmouth College .......... $1,586 |
| Mammography Study Address File .......... $22,725 |
| **Richard Hoffman** |
| NCIRE - The Veterans Health Research Institute .......... $52,426 |
| Prostate-Specific Antigen Practices and Outcomes in the Elderly .......... $25,000 |
| Georgetown University .......... $15,171 |
| Treatment Decisions and Patient Reported Outcomes in Low Risk Prostate Cancer .......... $120,000 |
| **Huining Kang** |
| Gabrielle's Angel Foundation .......... $25,000 |
| Statistical Methods for Evaluating Cancer Biomarkers .......... $22,725 |
| **Richard Lauer** |
| New Mexico Cancer Care Alliance .......... $75,705 |
| Clinical Trial - Phase II .......... $22,725 |
| **David Lee** |
| American Society for Radiation Oncology .......... $13,801 |
| Identification of a Histone H2A E3 Ligase, hRUL 138, as a Substrate for Protein Arginine Methyltransferase, CARM1, and its Role in DNA-Damage Repair .......... $101,048 |
| **Fa-Chyi Lee** |
| New Mexico Cancer Care Alliance .......... $134,414 |
| Clinical Trial - Phase Ib .......... $101,048 |
| **Elizabeth McGuire** |
| New Mexico Cancer Care Alliance .......... $130,524 |
| Clinical Trial - Phase II .......... $94,544 |
| New Mexico Cancer Care Alliance .......... $89,674 |
| Clinical Trial - Phase III .......... $89,363 |
| New Mexico Cancer Care Alliance .......... $80,400 |
| **Carolyn Muller** |
| New Mexico Cancer Care Alliance .......... $89,363 |
| Clinical Trial - Phase III .......... $89,363 |
| New Mexico Cancer Care Alliance .......... $80,400 |
| New Mexico Cancer Care Alliance .......... $80,400 |
| **Janet Oliver** |
| NIH/National Cancer Institute .......... $370,811 |
| Integrative Cancer Nanoscale And Microsystems (IC-NSMS) Training Center .......... $370,811 |
| **Michelle Ozbun** |
| American Cancer Society .......... $120,000 |
| American Cancer Society Institutional Research Grant (ACS-IRG) .......... $120,000 |

**Thomas Ma, MD, PhD, FACC**
Yehuda Pat
New Mexico Cancer Care Alliance .................................................. $217,665
Clinical Trial - Phase III

Dulcinea Quintana
New Mexico Cancer Care Alliance .................................................. $146,025
Clinical Trial - Phase I & II

Ashwani Rajput
Brigham and Women's Hospital ..................................................... $90,600
ACOSOG Services Agreement

Melanie Royce
NIH/National Cancer Institute ....................................................... $705,607
New Mexico Minority Based Community Clinical Oncology Program

New Mexico Cancer Care Alliance .................................................. $106,305
Clinical Trial - Phase II

New Mexico Cancer Care Alliance .................................................. $85,710
Clinical Trial - Phase II

Montaser Shaheen
New Mexico Cancer Care Alliance .................................................. $142,050
Clinical Trial - Phase II

NIH/National Heart, Lung and Blood Institute ................................ $135,657
The Role of hPxo4 in DNA Repair and Chemotherapy Resistance

New Mexico Cancer Care Alliance .................................................. $75,649
Clinical Trial - Phase III

Lovelace Biomedical & Environmental Research Institute ............... $33,292
INST 1117: Biomarkers for Epigenetic Therapy of Lung Cancer

Larry Sklar
Carnegie Mellon University ............................................................ $151,000
Small Molecule Discovery with HTS Multiplex Flow Cytometry and FAP Technology

Alan Tomkinson
NIH/National Institute of Environmental Health Sciences .................. $269,721
Roles of Lg3 and XRCC1 Genes in Genome Stability

NIH/National Institute of General Medical Sciences ....................... $238,580
Cellular Functions of Eukaryotic DNA Ligases

Lawrence Berkeley National Laboratory ........................................... $92,617
Structural Cell Biology of DNA Repair Machines

University of Maryland, Baltimore County ...................................... $50,780
ARRA-Nitrosamine Chemistry and Biochemistry

NIH/National Institute of General Medical Sciences ....................... $15,704
Cellular Functions of Eukaryotic DNA Ligases

Cheryl Willman
NIH/National Cancer Institute ....................................................... $1,934,105
University of New Mexico Cancer Center Support Grant

NIH/National Cancer Institute ....................................................... $585,133
Molecular Signatures for Outcome Predictions and Therapeutic Targeting in ALL (SPECS II)

NIH/National Cancer Institute ....................................................... $353,085
Peptide-Directed Protocells and Virus-like Particles-New Nanoparticle Platforms for Targeted Cellular Delivery of Multicomponent Cargos (MPI)

NIH/National Cancer Institute ....................................................... $75,000
Clinical Trials Reporting Programs 2012

Gabrielle’s Angel Foundation ......................................................... $25,000
In Vivo Models for Design and Optimization of Targeted Nanocarriers (Protocells) for Leukemia Therapy

U.S. Department of Veterans Affairs .............................................. $17,500
Brachytherapy Treatment Services

New Mexico Cancer Care Alliance .................................................. $5,418
Administrative Services Agreement (Loose)

Bridget Wilson
NIH/National Institute of General Medical Sciences ....................... $2,730,110
Center for the Spatiotemporal Modeling of Cell Signaling

Cell Biology and Physiology

Oscar Bizzozero
NIH/National Institute of Neurological Disorders and Stroke ............. $226,500
The Pathogenic Role of Protein Aggregation in Inflammatory Demyelination

Laura Gonzalez Bosc
NIH/National Heart, Lung, and Blood Institute ................................ $37,125
NFAT3 in Chronic Hypoxic Pulmonary Hypertension

Nikki Jernigan
National Institutes of Health ........................................................... $377,500
Vascular Smooth Muscle Function in Pulmonary Hypertension

Jett Stephen
Department of Defense / Air Force Research Laboratory .................. $84,984
Biological Nanoplatforms for Integrated Molecular-Scale-Self-Assembled

TriCore Reference Laboratories ..................................................... $26,984
Renal Biopsy Processing for Electron Microscopy - PSA

Eric Prossnitz
NIH/National Cancer Institute ....................................................... $313,325
G Protein-Coupled Estrogen Receptor GPER and Breast Carcinogenesis

NIH/National Cancer Institute ....................................................... $294,526
G Protein-Coupled Estrogen Receptor GPER and Breast Carcinogenesis

NIH/National Institute on Drug Abuse ............................................ $3,775
MLP Assay for Arrestin-AP2 Inhibitors

Thomas Resta
American Heart Association ......................................................... $140,000
Pulmonary Vasoconstrictor Reactivity Following Intermittent Hypoxia

American Heart Association ......................................................... $50,000
NADPH Oxidase-Mediated Pulmonary Vasoconstriction Following Chronic Hypoxia

Benjamin Walker
NIH/National Heart, Lung, and Blood Institute ................................ $355,785
Endothelial BK Channels and Vasoreactivity Following Chronic Hypoxia
Center for Infectious Disease and Immunity

**JULIE LOVCHIK**
Sandia National Laboratories .............................. $22,729
Development of a Sustainable Anthrax Diagnostic Test For Countering the Biological Threat

**TERRY WU**
Department of Defense / Defense Threat Reduction Agency ..... $2,012,770
Evaluation of Novel Subunit Tularemia Vaccines in Rat & Non-Human Primate Aerosol Infection Models

Department of Defense / Defense Threat Reduction Agency ..... $471,000
Evaluation of Novel Subunit Tularemia Vaccines in Rat & Non-Human Primate Aerosol Infection Models

Sandia National Laboratories .............................. $15,000
Systems Biology in 3D: Monitoring Dynamics of Francisella Tularensis-associated Granuloma Formation (addendum)

Continuing Medical Education

**STEVEN MCLAUGHLIN**
Shire Development Inc ........................................ $197,650
Optimizing Outcomes for Patients with ADHD

Astellas USA Foundation .................................... $162,050
Evaluating Acute Chest Pain in the Emergency Department

UCB Pharma, Inc ............................................. $161,050
Restless Leg Syndrome

EMD Serono, Inc.................................................. $159,525
Overcoming Lipodystrophy in HIV

Eisai .................................................................. $137,650
Optimizing the Use of Cytotoxic Chemotherapy

Millennium Pharmaceuticals, Inc .............................. $90,000
Refining Therapy in Multiple Myeloma

Mylan Specialty LP .............................................. $80,750
Improving Outcomes in Depression Management

Bristol-Myers Squibb, Inc........................................ $75,000
A New Direction in Myeloma Management

Janssen Pharmaceutical ........................................ $75,000
2013 Winter Clinical Dermatology Conference

Allergan, Inc .................................................... $60,000
2013 Winter Clinical Dermatology Conference

Allergan, Inc .................................................... $50,000
31st Fall Clinical Dermatology Conference

Alexion Pharmaceuticals, Inc................................... $30,290
Treatment of Paroxysmal Nocturnal Hemoglobinuria

Amgen, Inc ....................................................... $25,000
31st Fall Clinical Dermatology Conference

Allergan, Inc .................................................... $25,000
The Diagnosis and Treatment of Myofascial Pain Syndromes

Amgen, Inc ....................................................... $25,000
2013 Winter Clinical Dermatology Conference

Genentech, Inc ................................................... $20,000
Treating to Targets in Rheumatoid Arthritis - 160200480

Novartis .......................................................... $20,000
Building the Physician-Patient Partnership in Myeloma

Genentech, Inc ................................................... $10,000
Update and Review of Internal Medicine

Vertex Pharmaceuticals Incorporated .......................... $10,000
Update and Review of Internal Medicine

Mead Johnson & Company ................................. $3,000
Amazing Newborns Conference

CDC Foundation ................................................. $2,350
2012 Taos Writing Retreat for Health Professionals

Northern Navajo Medical Center ............................ $1,000
Pediatric and Neonatal Intensive Care Training-Torres

Northern Navajo Medical Center ............................ $1,000
Critical Care training for NICU and PICU Patients - Cowan

Northern Navajo Medical Center ............................ $1,000
Critical Care Training for NICU and PICU Patients- McCreight

Northern Navajo Medical Center ............................ $1,000
Pediatric and Neonatal Intensive Care Training- Langsam

Northern Navajo Medical Center ............................ $1,000
Pediatric and Neonatal Intensive Care Training- Jegathesan

Crowpoint Healthcare Facility ................................ $425
The Diagnosis and Treatment of Myofascial Pain Syndromes: An Introductory Course

Crowpoint Healthcare Facility ................................ $425
The Diagnosis and Treatment of Myofascial Pain Syndromes: An Introductory Course

Pueblo of Jemez ................................................ $385
7th International Academy on Nutrition and Aging 2012, Margaret R. Garcia

IHS Piñon Health Center ....................................... $295
Music, the Brain, Medicine and Wellness Conference 2012

Gallup Indian Medical Center ................................ $255
2013 Annual Women's Heath Conference

Crowpoint Healthcare Facility ................................ $179
21st Annual Amazing Newborns Conference, Newborn Care in the 21st Century

Gallup Indian Medical Center ................................ $165
Treating Chronic Pain in New Mexico, Eileen Philbin-Muldoon
Emergency Medicine

**LAURA BANKS**
New Mexico Transportation Department ........................................... $150,000
Pedestrian Safety Initiative

New Mexico Department of Health ................................................. $143,099
Hospital and Health Systems Preparedness

New Mexico Crime Victims Reparations Commission ....................... $73,000
Intimate Partner Death Review Team Coordination

New Mexico Department of Health ................................................. $23,927
Statewide Trauma Training

National Association of County and City Health Officials ...................... $4,000
Albuquerque Medical Reserve Corps Non-Competitive Capacity Building Award

National Association of County and City Health Officials ...................... $4,000
47th Medical Company, New Mexico State Guard Medical Reserve Corps Non-Competitive Capacity Building Award

**DARREN BRAUDE**
Department of Defense / Kirtland Air Force Base ............................... $324,384
UNM Educational Service Agreement

Department of Defense / Department of the Air Force ......................... $294,000
UNM Educational Service Agreement

Department of Defense / Kirtland Air Force Base ............................... $294,000
UNM Educational Service Agreement

City of Albuquerque ................................................................. $74,437
Medical Directorship

City of Albuquerque ................................................................. $50,000
Paramedic Training Program

Gypsum Medical Associates of New Mexico, PC ................................ $39,060
Medical Director

Department of Defense / Kirtland Air Force Base ............................... $30,384
UNM Educational Service Agreement

Department of Defense / Kirtland Air Force Base ............................... $30,384
UNM Educational Service Agreement

Gypsum Medical Associates of New Mexico, PC ................................ $26,040
Medical Director

Gypsum Medical Associates of New Mexico, PC ................................ $26,040
Medical Director

New Mexico Department of Health ................................................. $25,000
Airway 911 for BLS and ILS Providers-A Multimedia Online Training Program

City of Rio Rancho ................................................................. $8,000
City of Rio Rancho Fire Department Professional Services

Bernalillo County Sheriff’s Department .............................................. $6,000
Professional Services Medical Director and SWAT Training

Albuquerque Ambulance .............................................................. $5,456
AAS 11-39-A1 (Professional Agreement)

Town of Cochiti Lake ................................................................. $3,450
Medical Director Services

Motion Picture Set Medics, LLC .................................................... $2,604
Professional Services

**CAMERON CRANDALL**
Department of Health & Human Services/National Center for Chronic Disease Prevention and Health Promotion/CDC ................................. $10,280
IPA: Lynne Fullerton

**JON KENNETH FEMLING**
Olive View Medical Center-UCLA .................................................. $10,000
EMERGEncy ID NET

Olive View Medical Center-UCLA .................................................. $4,000
Prevalence on Pathogens in Cerebrospinal Fluid Obtained from Emergency Department Patients

Olive View Medical Center-UCLA .................................................. $900
EMERGEncy ID NET: Prevalence and Risk Factors for Community-Associated Clostridium Difficile Associated Disease Among Patients in the Emergency Department

**ANDREW HARRELL**
New Mexico Department of Health ................................................. $26,500
TSFA-UNM EMS Medical Direction Consortium Field Response Program

New Mexico Department of Health ................................................. $1,000
UNM-EMS Medical Direction Consortium Field Response Program

**STEVEN MCLAUGHLIN**
Bernalillo County Fire Department ................................................... $63,053
Medical Director Services

New Mexico State Fair ............................................................... $48,885
Emergency Medical Services

River Medical Inc. ......................................................................... $26,040
Professional Services

Valencia Regional Emergency Communication Center ....................... $9,000
Medical Director Services

IHS Piñon Health Center ................................................................. $1,395
Update and Review of Internal Medicine 2012

**BRIAN MOORE**
New Mexico Department of Health ................................................. $50,000
Statewide Emergency Medical Services Medical Direction Project

**ROBERT SAPIEN**
Health Resources and Services Administration ................................. $200,000
Emergency Medical Service for Children Regionalization

Health Resources and Services Administration ................................. $109,999
EMS for Children State Partnership Competing Continuation Grant

New Mexico Department of Health ................................................. $50,000
The School Nurse Behavioral Health Training Project

Kristopher Marjon, PhD
**Family and Community Medicine**

**William Athas**
Region IX Education Cooperative ........................................... $25,000
Development and Enhancement of New Mexico Early Learning Data Resources
New Mexico Department of Health ........................................... $15,000
Geocoding and Functional Requirement Group Support and Consultation
American Lung Association .................................................... $10,000
Respiratory Illnesses, Air Toxics, and Multi-Unit Housing
American Lung Association .................................................... $750
New Mexico Multi-Unit Housing GIS Database

**Sally Bachofer**
Health Resources and Services Administration .................................. $223,340
Residency Training in Primary Care

**Lisa Cacari- Stone**
Santa Fe Community Foundation ............................................... $50,000
Evaluating Health Equity in New Mexico: Impact of Place Matters, Health Impact Assessments

**Christina Getrich**
University of North Carolina Medical School at Chapel Hill ..................... $8,850
Development of a Spanish Language Colorectal Cancer Screening

**Deborah Helitzer**
National Institutes of Health .................................................. $359,994
Achieving a Critical Mass of Women Biomedical Faculty: Impact of Three US Programs
University of Texas at Tyler ................................................... $88,197
Evaluation Core of the SW Center for Agricultural Health, Injury Prevention and Education
University of Colorado – Denver ............................................... $18,496
MAP - ERC Occupational Safety & Health Education & Research Centers - T42

**Nikki Katalanos**
Health Resources and Services Administration ................................ $130,000
Physician Assistant Training in Primary Care

**Arthur Kaufman**
Department of Health & Human Services / Agency for Healthcare Research & Quality .................................................. $497,114
HERO: New Mexico's Health Extension for Primary Care Transformation Care
New Mexico Department of Health ........................................... $18,500
New Mexico Immunization Coalition
Lawrence Leeman ................................................................. $33,734
Anonymous Non-Profit Foundation Early Training Grant

**Martha Cole McGrew**
New Mexico Children Youth & Family Department .................................. $700,000
Professional Services
Blue Cross Blue Shield of New Mexico ....................................... $219,556
Care New Mexico Services
Bernalillo County Juvenile Detention Center ................................... $95,415
Professional Physician Services
First Choice Community Healthcare .......................................... $85,916
Professional Services Agreement
First Choice Community Healthcare .......................................... $54,080
First Choice Community Healthcare
Central New Mexico Community College ..................................... $37,467
Outpatient Professional Services
Molina Healthcare of New Mexico ............................................. $25,000
Care Coordination Services
Molina Healthcare of New Mexico ............................................. $25,000
Care Coordination Services
Molina Healthcare of New Mexico ............................................. $10,000
Case Management

**Tassy Parker**
Department of Health & Human Services / Indian Health Service .................. $170,000
American Indians Into Medicine
University of Wisconsin .......................................................... $29,191
Healthy Children Strong Families: American Indian Communities Preventing Obesity

**Robert L Rhyne Jr.**
University of North Carolina (American Cancer Society) .......................... $504,975
Improving Colorectal Cancer Screening for Latinos in Primary Care
Department of Health & Human Services/Agency for Healthcare Research and Quality .................................. $291,693
Health Extension Rural Office: Translating Research Into Localities

**Helene Silverblatt**
Health Resources and Services Administration ................................ $274,181
New Mexico Area Health Education Centers

**Kristine Tolstrup**
New Mexico Department of Health ........................................... $89,675
New Mexico Public Health Learning Collaborative
Health Resources and Services Administration ................................ $1,987
New Mexico Public Health Traineeship

**Nina Wallerstein**
NIH/National Institute on Drug Abuse .......................................... $171,183
RezRIDERS Project and Program
National Congress of American Indians ....................................... $159,733
NARCH V Program at NCAI-PRC and University of New Mexico
Healthy Native Communities Partnership, Inc ................................ $82,000
Healthy Native Communities Partnership
San Francisco State University ................................................. $32,375
Distinguished Visiting Professor Agreement
Pueblo of Jemez ................................................................. $19,999
Jemez JHHS Public Health Programs
NIH/National Institute on Drug Abuse .......................................... $11,412
RezRIDERS Project and Program

**Robert Williams**
National Institutes of Health .................................................. $373,725
Stereotyping in Medical Student Decision Making: presence, origins and solutions
Wayne State University ........................................................... $7,000
Building Research Culture and Capacity with Quality Improvement
**Internal Medicine**

**ALLEN ADOLPHE**  
Gilead Sciences ......................................................... $62,510  
Clinical Trial - Phase III

Gilead Sciences ......................................................... $2,634  
Clinical Trial Agreement - Phase III; supplement

**BINA AHMED**  
Lilly USA, LLC .......................................................... $55,720  
Clinical Trial - Phase I; supplement

**ARORA SANJEEV**  
GE Foundation ............................................................ $4,669,986  
UNM Rural Access to Primary Care through Project ECHO

New Mexico Human Services Department ................................ $931,140  
Medical Match for Project ECHO

CDC Foundation ............................................................ $200,000  
ECHO Model in Community Health Centers

Gilead Sciences ............................................................ $96,847  
Clinical Trial - Phase III

Gilead Sciences ............................................................ $96,847  
Clinical Trial - Phase II

Synergy Enterprises, Inc ................................................ $92,000  
Use of the ECHO Model to Disseminate NIDA/CTN Buprenorphine Blending Trainings

Genentech, Inc ............................................................ $74,509  
Clinical Trial

The Life Link ............................................................... $50,000  
Community Addictions Recovery Specialists Program

AbbVie ...................................................................... $46,255  
Clinical Trial - Phase II

AbbVie ...................................................................... $20,926  
Clinical Trial - Phase II; supplement

**EDGAR BOEDEKER**  
U.S. Department of Veterans Affairs ................................ $137,850  
IPA: Chengru Zhu

New Mexico VA Health Care System ................................ $134,216  
IPA: Isaac Wyatt Byrd

**MARK BURGE**  
Quintiles Laboratories .................................................. $1,321  
Clinical Trial - Phase III; supplement

**KATHLEEN COLLERAN**  
VisionQuest Biomedical ............................................... $146,285  
Retinal Imaging via Community Health Workers

Merck & Company, Inc .................................................. $4,500  
Clinical Trial - Phase III

**RICHARD CROWELL**  
Loveland Biomedical & Environmental Research Institute .... $56,700  
Factors for Epigenetic Silencing of Lung Cancer Genes

**RAVI DURVASULA**  
Biomedical Research Institute of New Mexico .................. $51,694  
Second Generation Paratransgenesis for Control of Pierce's Disease of Grapes

Howard Hughes Medical Institute ................................... $39,000  
Research Training Fellowships for Med Students - Adam Farshaw

Biomedical Research Institute of New Mexico .................. $4,601  
Second Generation Paratransgenics for Control of Pierce's Disease of Grapes

**CARLA HERMAN**  
Donald W Reynolds Foundation ...................................... $250,000  
Next Steps in Physicians’ Training in Geriatrics

**THERESA HEYNKAMP**  
Cystic Fibrosis Foundation ............................................ $27,000  
Program for Adult Care Excellence (PACE)

**RICHARD HOFFMAN**  
Foundation for Informed Medical Decision Making ............ $37,542  
Medical Editor

**MICHELLE IANDORIO**  
University of Colorado Health Sciences Center ................ $239,750  
New Mexico AIDS Education and Training Center

**DENECE KESLER**  
Health Resources and Services Administration ................. $202,388  
Radiation Exposure Screening and Education Program

Health Resources and Services Administration ................. $150,000  
Integrative Medicine Program

Loveland Respiratory Research Institute ........................... $75,000  
Loveland Respiratory Research Institute - Occupational Medicine Services

Johns Hopkins University ............................................. $10,000  
Development of a Medical Screening Program for Former LANL & SNL Workers

New Mexico Department of Health .................................. $6,000  
New Mexico Occupational Surveillance Program

Loveland Respiratory Research Institute ........................... $6,000  
Loveland Respiratory Research Institute - Consulting Services

Honeywell Corporation .................................................. $2,500  
Honeywell Aerospace of Albuquerque - Clinician Services

**IRENA KING**  
Fred Hutchinson Cancer Research Center ......................... $29,833  
Multi-Level Intervention to Prevent Obesity in Low Income Working Adults (TREC)

**WARREN LASKEY**  
DVA/Veteran’s Administration Medical Center .................. $707,982  
VA Interventional Cardiology

**SAMUEL LEE**  
Astellas USA Foundation ............................................. $26,000  
An In Vitro Analysis of Micafungin, Ethanol, and Doxycycline as Antifungal Lock Therapy Against Candida Albicans Biofilms
Internal Medicine (continued)

**SAMUEL LEE (CONTINUED)**

Astellas USA Foundation ......................................................... $5,000

10th Annual Meeting of the South Central Medical Mycology Group

**HENRY LIN**

Biomedical Research Institute of New Mexico .................................. $20,000

BRINM Research Support

**THOMAS MA**

NIH/National Institute of Diabetes and Digestive and Kidney Diseases ... $310,727

TNF-alpha Regulation of Intestinal Paracellular Transport

U.S. Department of Veterans Affairs .............................................. $135,743

IPA-Shuhong Guo, PhD

U.S. Department of Veterans Affairs .............................................. $135,743

IPA-Rana Al-Sadi, PhD

**GREGORY MERTZ**

NIH/National Institute of Allergy and Infectious Diseases ................. $494,415

Andes Virus Transmission and Pathogenesis in Chile

National Institutes of Health ..................................................... $21,974

Andes Virus Transmission and Pathogenesis in Chile

**POPE MOSELEY**

Albuquerque-AMG Specialty Hospital ............................................. $130,340

Administrative Services Internal Medicine

Albuquerque Area Indian Health Service ........................................ $82,246

IHS Specialty Services

Zenith Administrators ............................................................. $25,000

Outpatient Professional Services

**ROBERT JOSEPH MUNK**

NIH/National Library of Medicine ............................................... $39,403

NLM14: AIDS InfoNet 2012

**TUDOR OPREA**

Givaudan Flavors Corporation ................................................... $305,000

Givaudan Research Agreement- Year 5

University of Gothenburg ....................................................... $36,000

Visiting Scientist Agreement (Oprea)

Evotec (US) Inc. ................................................................. $28,249

Subsetting Strategies for the Molecular Libraries Small Molecules Repository

Rosalind Franklin University of Medicine and Science ........................ $11,665

Structural and Functional Analysis of Glucose Transporters

Rosalind Franklin University of Medicine and Science ........................ $11,522

R01: Structural and Functional Analysis of Glucose Transporters

**ARTI PRASAD**

The Bell Group, Inc. .............................................................. $25,000

Professional Services: UNMMG Center for Life

The Bell Group, Inc. .............................................................. $25,000

Professional Services: UNMMG Center for Life (A2)

The Weil Foundation .............................................................. $20,000

Sustaining Integrative Medicine in Residency in Internal Medicine at UNM

**IMRAN ALI SAED**

Central New Mexico Community College .................................... $95,742

Agreement for Participation in the Respiratory Therapy Educational Program

**DAVID SCHADE**

NIH/National Institute of Diabetes and Digestive and Kidney Diseases . $312,291

Diabetes Prevention Program Outcomes Study- Phase 2

George Washington University ................................................. $271,951

The Glyceria Reduction Approaches for Diabetes: A Comparative Effectiveness Study

NIH/National Institute of Diabetes and Digestive and Kidney Diseases . $232,506

Diabetes Prevention Program Outcomes Study- Phase 2

Case Western Reserve University .............................................. $62,084

Epidemiology of Diabetes Intervention and Complications

Case Western Reserve University .............................................. $58,310

Epidemiology of Diabetes Intervention and Complications

NIH/National Institute of Diabetes and Digestive and Kidney Diseases . $18,556

Diabetes Prevention Program Outcomes Study: NCI Sub-Study Supplement

University of South Florida ................................................... $2,000

Type 1 Diabetes TrialNet

**WILMER SIBBITT JR**

Indian Health Services .......................................................... $164,492

Albuquerque Indian Health Services Contract

**AKSHAY SOOD**

Cystic Fibrosis Foundation ..................................................... $22,788

CF Care Center Program

**CHRISTINE AILEEN STIDLEY**

Lovelace Biomedical & Environmental Research Institute ................. $30,000

Statistical Support to Lung Cancer Programs

**KARLA THORNTON**

McCune Charitable Foundation ................................................ $25,002

A Peer Education Program in New Mexico Prisons

Con Alma Health Foundation ................................................ $15,000

Prisoner Health is Community Health

**MARK UNRUH**

Dialysis Clinic, Inc. .............................................................. $783,020

Salary Support- Heather Ward

Dialysis Clinic, Inc. .............................................................. $444,939

DCI Biostatistician

DCI Donor Services .............................................................. $117,546

DCI Biostatistician Supplement

DCI Donor Services .............................................................. $67,118

ENoC as a Novel Mechanism for Hypertension and Volume Expansion in Type 2 Diabetes

Dialysis Clinic, Inc. .............................................................. $10,000

DCI Medical Directorship and QA
### New Mexico Department of Health

- **Carolyn Voss**
  - New Mexico Department of Health .................................................. $750,000
  - Provider Agreement for COH Children’s Medical Services

- **Bruce S Williams**
  - Health Resources and Services Administration ............................... $608,522

- **Philip Zager**
  - Dialysis Clinic, Inc. ................................................................. $715,105
  - DCI Medical Directorship and QA

- **Kiran Bhaskar**
  - National Institutes of Health ..................................................... $192,677
  - The Role of Microgli- and Neuron-Specific My D88 Signaling in Tauopathies

- **Judy Cannon**
  - NIH/National Institute of Allergy and Infectious Diseases ................ $339,750
  - The Role of PKCtheta in T Cell and T-ALL Migration

- **Bryce Chackerian**
  - NIH/National Institute of Allergy and Infectious Diseases ............... $298,980
  - A VLP-based Platform for Vaccine Discovery

- **Vojro Deretic**
  - NIH/National Institute of Allergy and Infectious Diseases ............... $383,575
  - Pattern Recognition Receptors and Autophagy in Mtb Control in AIDS

- **Jeremy Edwards**
  - NIH/National Institute of General Medical Sciences ....................... $303,485
  - A Spatially Coarse-Grained, Rule-Based Framework for Modeling Large Molecular Aggregates on the Cell Membrane

- **Scott Ness**
  - NIH/National Cancer Institute .................................................. $594,337
  - Alternative RNA Splicing and Variant Protein Products in Leukemia Outcome

- **Mary Ann Osley**
  - NIH/National Institutes of General Medical Sciences ...................... $361,268
  - Genetic Analysis of H2B Ubiquitylation in Yeast

- **Michelle Ozburn**
  - NIH/National Cancer Institute ................................................ $109,252
  - Role of Histone H2B Ubiquitylation in DNA Replication

- **David Peabody**
  - SAIC ......................................................................................... $53,146
  - VLP/Mimotope Screening for Anti-RHS Monoclonal Antibodies

- **Sandia National Laboratories**
  - $8,000
  - Single-Chain Antibody Display on VLPs

- **Novartis** ................................................................................. $39,504
  - Cyclophilin Inhibition of HPV Infection

- **Sandia National Laboratories** ................................................... $6,000
  - Single-Chain Antibody Display on VLPs
### Molecular Genetics and Microbiology (continued)

**XUEXIAN YANG**  
American Lung Association .................. $40,000  
Counter-Regulation of Allergic Asthma

**Neurology**

**VON ERIK BURTON**  
MedImmune, Inc. .................. $199,253  
Clinical Trial Agreement

**COREY FORD**  
Genentech, Inc. .................. $442,340  
Clinical Trial - Phase III

Novartis Pharmaceuticals Corporation .................. $262,371  
Clinical Trial - Phase III

University of California, Los Angeles .................. $179,079  
A Double-Blind, Placebo controlled Trial of Estradiol Treatment in Women with Multiple Sclerosis: Effect on Cognition

Acorda Therapeutics, Inc. .................. $110,011  
Impaired Interhemispheric Relationships in MS: Evaluation by MEG, EEG, and MRI-Remediation by Dalfampridine

Novartis .................. $94,930  
Clinical Trial

Teva Pharmaceutical Industries, LTD .................. $76,175  
Clinical Trial Agreement - Phase IV

Anonymous Sponsor .................. $30,115  
Clinical Trial Agreement

PPD Development .................. $22,093  
Clinical Trial Agreement - Phase II

Genzyme Corporation .................. $20,470  
Clinical Trial - Phase III

**BRANKO HUISA**  
PhotoThera, Inc .................. $50,000  
Neuroprotective Effects of Transcranial Laser Therapy in a Novel Rat Model of Chronic Small Vessel Disease

University of Texas .................. $17,875  
Clinical Trial Agreement Phase II

**MOLLY KING**  
Yale University .................. $3,292  
Insulin Resistance Intervention After Stroke (IRIS) Trial

**JIM LIU**  
NIH/National Institute of General Medical Sciences .................. $967,540  
Integrative Program in CNS Pathophysiology Research

NIH/National Institute of General Medical Sciences .................. $69,877  
Integrative Program in CNS Pathophysiology Research

**LESLIE MORRISON**  
University of California, San Francisco .................. $230,106  
Modifier Genes as Biomarkers for Cerebral Cavernous Malformation Progression

Muscular Dystrophy Association .................. $60,000  
Pediatrics-MDA Clinics

University of Rochester Medical Center .................. $12,080  
FOR-DMD: Double-Blind Randomized Trial to Optimize Steroid Regimen in Duchenne MD

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

**JOHN PHILIPS**  
National Institutes of Health .................. $215,922  
Optimization of Incidental Findings Disclosure to Research Subjects

The Mind Research Network .................. $119,159  
Medical Director

NIH/National Institute of Neurological Disorders and Stroke .................. $15,596  
Optimization of incidental findings disclosure to research subjects

The Mind Research Network .................. $2,571  
Medical Director

**SARAH Richardson PIRIO**  
American Parkinson Disease Association .................. $28,500  
APDA Information and Referral Center

**STEFAN POSSE**  
Technische Universitat Dresden .................. $11,000  
Volitional Control of Brain Activity: Effect of Neuro Feedback on Emotional Reactivity

**GARY ROSENBERG**  
NIH/National Institute of Neurological Disorders and Stroke .................. $500,832  
Disorders and Stroke

The Mind Research Network .................. $109,460  
MRN Administrative Operations

U.S.-Israel Binational Science Foundation .................. $21,005  
Blood-Brain Barrier Permeability Abnormalities and Post Stroke Cognitive Decline

Gallup Indian Medical Center .................. $18,480  
Pediatric Neurology On-Site Clinic Services

Eastern New Mexico Medical Center .................. $5,000  
Professional Services

**JENNIFER ANN VICKERS**  
New Mexico Department of Health .................. $131,875  
Children's Medical Services

**YI YANG**  
American Heart Association .................. $140,000  
Neurovascular Remodeling After Ischemic Stroke

**SARAH YOUSSEF**  
Muscular Dystrophy Association .................. $180,000  
Outcome Measures in Oculopharyngeal Muscular Dystrophy

Muscular Dystrophy Association .................. $153,000  
Adult-MDA Clinics
Neurosciences

ANDREA ALLAN
NIH/National Institute of Environmental Health Sciences .......................... $302,323
Epigenetic Changes in Glucocorticoid Receptor Gene Due to Arsenic Exposure

JONATHAN BRIGMAN
National Institutes of Health ........................................... $165,718
Corticostratial Networks and NMDAR Medication of Habitual and Flexible Action in the Mouse

LEE ANNA CUNNINGHAM
NIH/National Institute on Alcohol Abuse and Alcoholism .................................... $320,581
Prenatal Alcohol and Adult Hippocampal Neurogenesis - MPI

ERIN MILLIGAN
NIH/National Institute on Drug Abuse ........................................ $308,835
Spinal Neuroimmune Mechanisms Underlying IL-10 Gene Therapy for Pain Control

DONALD L. PARTRIDGE
Sandia National Laboratories ................................................ $5,000
A Comprehensive Approach to Decipher Biological Computation to Achieve Next Generation High-Performance Exascale Computing

NORA PERRONE-BIZZOZERO
NIH/National Institute on Drug Abuse .................................... $370,220
Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction

NIH/National Institute on Drug Abuse .................................... $181,200
Impact of miR-495 vs. HuD in the Control of Addiction-Related Genes and Behavior

The Mind Research Network ................................................ $72,892
Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia

NIH/National Institute on Drug Abuse .................................... $24,681
Competing Roles of MicroRNAs and RNA-Binding Proteins in Drug Addiction

DANIEL D. SAVAGE II
National Institutes of Health ................................................ $317,375
Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission

NIH/National Institute on Alcohol Abuse and Alcoholism ......................... $15,262
Consequences of Prenatal Ethanol Exposure and Maternal Stress on Offspring

CLAUDE SHUTLEWORTH
NIH/National Institute of Neurological Disorders and Stroke ......................... $307,900
Spreading Depolarizations and Post-Ischemic Injury

NIH/National Institute of Neurological Disorders and Stroke ......................... $32,058
Adenosine Receptor Activation in Spreading Depolarization and Ischemic Injury

CARLOS VALENZUELA
NIH/National Institute on Alcohol Abuse and Alcoholism ......................... $302,251
Alcohol and Developing Neuronal Circuits

NIH/National Institute on Alcohol Abuse and Alcoholism ......................... $121,110
Alcohol Research Training in Neurosciences

NIH/National Institute on Alcohol Abuse and Alcoholism ......................... $10,075
Alcohol and Developing Neuronal Circuits

JASON PORTER WIECK
NIH/National Institute on Alcohol Abuse and Alcoholism ......................... $41,134
Functional Integration and Plasticity of Human ESC-Derived Neurons

Neurosurgery

MARC MALKOFF
University of Cincinnati ..................................................... $87,603
Ethnic/Racial Variations of Intracerebral Hemorrhage Clinical (FFS)

Cerevast Therapeutics, Inc ..................................................... $68,068
Clinical Trial - Phase III

University of Cincinnati ..................................................... $55,124
Ethnic/Racial Variations of Intracerebral Hemorrhage Administrative (CR)

EDWIN NEMOTO
Rio Grande Neurosciences, Inc. ................................................ $229,955
PEMF in TBI and CVA and Neuroinflammation

Rio Grande Neurosciences, Inc. ................................................ $28,298
Clinical Support Services

MARTINA STIPLER
University of Arizona ........................................................ $591,000
Progestrone for the Treatment of Traumatic Brain Injury: ProTECT III Clinical Trial - Phase III

University of Arizona ........................................................ $50,214
Progestrone for the Treatment of Traumatic Brain Injury: ProTECT III Clinical Trial - Phase III

HOWARD YONAS
DVA/Veterans Administration Medical Center ........................................ $167,133
VA Neurosurgery Services

New Mexico Tumor Registry

CHARLES WIGGINS
NIH/National Cancer Institute ................................................ $182,518
Supplemental Funding for Management of the Cherokee Nation Cancer Registry

Memorial Medical Center ................................................... $50,000
Memorial Medical Center Abstracting Services

NIH/National Cancer Institute ................................................ $23,070
SEER RRSS: Patterns of Care, Diagnosis

New Mexico Department of Health ........................................ $6,330
Services for DOH BCC and CRC Programs

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

**EVE ESPEY**
Anonymous Non-Profit Foundation ........................................... $338,109
Fellowship in Family Planning

**SARAH FOSTER ADAMS**
New Mexico Foster Care Alliance .................................................. $70,001
Clinical Trial Phase II

**YUKO KOMESU**
NIH/National Center for Complementary and Alternative Medicine .... $387,874
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence: An RCT
NIH/National Center for Complementary and Alternative Medicine .... $363,702
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence: An RCT
Society of Urologic Nurses & Association .............................................. $12,000
Neuro-sacral Modulation on the Overactive Bladder Patient: Continuous vs. Cycling Programming

**TONY OGBURN**
Planned Parenthood of New Mexico .................................................. $25,000
Professional Services Agreement

**WILLIAM RAYBURN**
Lovelace Health System ............................................................... $1,233,614
Professional Services
Albuquerque Area Indian Health Service ........................................... $96,534
IHS Specialty Services
First Choice Community Healthcare ............................................... $69,788
Midwifery Services
New Mexico Department of Health ................................................. $39,000
High Risk Prenatal Care

**REBECCA ROGERS**
Women and Infants’ Hospital of Rhode Island ................................. $41,448
Tailored Measure for Female Urinary Incontinence
RTI International ................................................................. $96,133
Capitation for PDN Center Grant

**HARPAL RAMEET SINGH**
Society of Family Planning ........................................................... $67,887
The Voice of Latino Adolescent: Barriers to use of Contraception, a Focus Group

---

**Office of the Medical Investigator**

**BARRY MICHELLE**
New Mexico Department of Health ............................................. $150,275
Mass Fatality Planning
New Mexico Department of Health .................................................. $30,000
Medical Examiner Surveillance for Bioterrorism Mortality

**WENDY HONEYFIELD**
New Mexico Department of Health ................................................. $15,442
New Mexico Sudden Unexpected Infant Death Registry

**KURT NOLTE**
National Association of Medical Examiners ..................................... $135,208
Compensation for Executive Vice President
Portland State University ............................................................. $16,279
Acute Alcohol Use and Suicide
Portland State University ............................................................. $16,274
Acute Alcohol Use and Suicide

**LORI PROE**
New Mexico Department of Health ............................................. $41,822
New Mexico Violent Death Reporting System

**ROSS ZUMWALT**
Veteran’s Administration Medical Center ....................................... $73,621
Provide Autopsy Services for Prisoners of War

**Orthopaedics**

**BURKE GURNEY**
Biomedical Research Institute of New Mexico ................................ $11,463
Exercise Interventions During Voluntary Weight Loss in Older Adults

**DALE HOEKSTRA**
Langford Consulting, Inc .............................................................. $14,820
Jones Professional Services Agreement

**ELIZABETH SZALAY**
Lovelace Health System ............................................................... $5,100
Lovelace Health Systems Committee Member Services Agreement

**GEHRON TREME**
Synthes, Inc .................................................................................. $6,885
Basic Principles & Techniques of Operative Fracture Management Course for Residents
Synthes, Inc .................................................................................. $6,625
Residents to Attend Basic and Advanced Principles & Techniques of Operative Fracture Management Courses
Stryker Orthopaedics .................................................................. $1,643
Educational Grant- Orthopaedic Trauma Association Annual Meeting

**WASCHER DANIEL**
Smith & Nephew, Inc Smith & Nephew, Inc ..................................... $22,500
Educational Grant-Fellowship Support Program 2012-2013
Arthrex, Inc .................................................................................... $15,000
Arthrex Sports Fellowship Grant/Educational Grant
U.S. Department of Justice ............................................................. $9,000
U.S. Department of Justice Expert Witness Case- Williams vs. U.S.A.
U.S. Department of Justice ............................................................. $6,500
US Department of Justice Expert Witness- Sanders et al. vs. U.S.A.
U.S. Department of Justice ............................................................. $5,870
Expert Witness- Tsosie v. USA
Pathology

MICHELLE BARRY
Intersociety Council for Pathology Information ........................................... $1,000
Medical Student Interest Group

ELAINE BEARER
NIH/National Institute of Mental Health ........................................ $496,529
Live Imaging of Brain Circuity in Mouse Models of PTSD

VITTORIO CRISTINI
University of Southern California ......................................................... $121,926
Multi-Scale Complex Systems Transdisciplinary Analysis of Response to Therapy
Methodist Hospital Research Institute ........................................ $108,291
Center for Systematic Modeling of Cancer Development
Methodist Hospital Research Institute ................................................ $45,586
Center for Systematic Modeling of Cancer Development
Baylor College of Medicine ................................................................. $45,398
Postdoc for the Center for Systematic Modeling of Cancer Development
The Methodist Hospital ................................................................. $43,776
Center for Transport Oncophysics (PSOC)
The Methodist Hospital ................................................................. $43,776
Center for Transport Oncophysics (PSOC)
Methodist Hospital Research Institute ........................................ $24,966
Center for Systematic Modeling of Cancer Development (Lab Computational Component)
University of Texas HSC Houston .................................................. $14,757
Texas Center for Cancer Nanomedicine
The Methodist Hospital ................................................................. $7,641
Predictive Physical Modeling of Chemotherapeutic Drug Transport and Tumor Response

KENDALL CROOKSTON
Blood Systems Foundation ................................................................. $82,162
Transfusion Medicine Fellowship

JENNIFER GILLETTE
American Heart Association ............................................................... $308,000
Manipulation of Hematopoietic Stem Cell/Niche Interactions for the Improvement of Stem Cell Transplantation

BRIAN HJELLE
National Ecological Observatory Network ....................................... $95,130
Services Agreement

RICHARD LARSON
Manhattan Scientifics, Inc. .............................................................. $1,350,000
Clinical Trial to Validate Use of Nanoparticles
Veteran’s Administration Medical Center ..................................... $145,308
Institutional Review Board Services
Veteran’s Administration Medical Center ..................................... $29,943
Institutional Review Board Services

DIANE LIDKE
NIH/National Institute of General Medical Sciences ................... $256,738
Single Molecule Imaging to Quantify FCRI Signaling Dynamics
National Science Foundation ......................................................... $158,871
Elucidating the Regulation Mechanisms of ErbB Signaling using Quantitative Imaging
University of Texas .................................................. $37,750
Mechanisms of Apoptotic Calcium Signaling
West Virginia University ............................................................... $20,803
Spatial Monte Carlo Models for BEGF Binding on the Cell Membrane

GEORGE TEGOS
Department of Defense / Defense Threat Reduction Agency ........ $2,124,572
Targeting Multi-drug Efflux Systems in Francisella Tularensis & Burholderia Pseudomallei

ANGELA WANDINGER-NESS
NIH/National Institute of General Medical Sciences ............... $807,973
Academic Science Education and Research Training (ASERT)
National Science Foundation ......................................................... $274,006
Chemical Probes for Assessing Rab7 and Accessory Protein Function
NIH/National Cancer Institute ......................................................... $72,977
Capitalizing on NSAID Enantiomer Selectivity for Cancer Prevention and Therapy (PQ5) (MPI)
NIH/National Institute of Dental and Craniofacial Research .......... $31,146
OFD1 as Constituent of a Multimeric Protein Complex in Odontoblast Primary Cilia
National Science Foundation ......................................................... $6,750
REU 2013 Chemical Probes and Assessing Rab7 and Accessory Protein Function
The American Society for Cell Biology ........................................ $1,200
Financial Support for One-Day Local Meeting Organized by Post-Docs

COSETTE WHEELER
NIH/National Institute of Allergy and Infectious Diseases ........... $2,899,170
University of New Mexico Interdisciplinary HPV Prevention Center
NIH/National Cancer Institute ......................................................... $1,149,492
New Mexico HPV Outcomes, Practice Effectiveness and Surveillance
NIH/National Cancer Institute ......................................................... $839,202
New Mexico HPV Outcomes, Practice, Effectiveness and Surveillance
Roche Molecular Systems, Inc. ......................................................... $84,327
Automated HPV Genotyping

THOMAS WILLIAMS
TriCore Reference Laboratories ...................................................... $2,184,609
Medical Direction
United Blood Services ................................................................. $282,720
Professional Services
Crownpoint Healthcare Facility ..................................................... $38,400
Crownpoint Healthcare Facility-Laboratory Directorship
Memorial Hospital of Texas County ........................................... $28,536
Professional Services
Pathology (continued)

BRIDGET WILSON
NIH/National Institute of Allergy and Infectious Diseases .................. $348,999
Mapping for Specialized Domains for FcεRI Signaling & Internalization
NIH/National Cancer Institute ..................................................... $290,608
MSM Mapping and Modeling of ErbB Receptor Membrane Topography
Los Alamos National Laboratory .................................................. $113,250
Three-Dimensional Molecular Tracking of IgE-FcεRI in Live Cells
NIH/National Institute of Allergy and Infectious Diseases ................. $15,510
Mapping for Specialized Domains for FcεRI Signaling & Internalization

STEPHEN YOUNG
Nano MR .................................................................................... $193,125
Specimen Acquisition Study to Evaluate the NanoMR Pathogen Detection System

ROSS ZUMWALT
New Mexico Crime Victims Reparation Commission ....................... $53,655
Grief Intervention for Homicide Survivors
US Attorney General’s Office ...................................................... $50,000
Expert Witness Testimony for US Attorney
Eastern New Mexico Medical Center .............................................. $3,848
Center Case Rate Agreement

Pediatrics

ROBERT ANNETT
NIH/National Institute of Child Health and Human Development ...... $440,267
National Children’s Study NIH-NICHD-NCS-2012-15
The Mind Research Network ........................................................ $40,774
Preterm Infants Mu=Rhythm Suppression Evaluation Study

TANYA BAKER-MCCUE
New Mexico Human Services Department ..................................... $206,400
Mi Via
New Mexico Department of Health .............................................. $30,000
Info Center Medical Home Portal
New Mexico Developmental Disabilities Planning Council ............. $15,510
Post-Secondary Education
New Mexico Developmental Disabilities Planning Council ............. $10,000
Post Secondary Education
New Mexico Developmental Disabilities Planning Council ............. $5,000
Info Fact Sheets

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

SOPHIE BERTRAND
New Mexico Children Youth & Family Department ....................... $5,792
New Mexico Special Quest Leadership Team

KOH BOAYUE
St. Baldrick’s Foundation ............................................................. $60,500
Infrastructure and Education Grant Request
Children’s Hospital of Philadelphia .............................................. $44,500
Clinical Trial
Children’s Hospital of Philadelphia .............................................. $37,500
Clinical Trial - Work Order INDUSTRY
Children’s Hospital of Philadelphia .............................................. $37,000
Per Case Reimbursement: NIH COG Grant-Order-Non Industry
Children’s Hospital of Philadelphia .............................................. $14,500
Clinical Trial-Industry
Children’s Hospital of Philadelphia .............................................. $5,000
Clinical Trial - Phase II
Children’s Hospital of Philadelphia .............................................. $1,250
Clinical Trial - Non-Industry

JOHN BRANDT
Presbyterian Healthcare Services ................................................. $76,000
Pediatric Nephrology On-Call Services

ANTHONY CAHILL
New Mexico Human Services Department ...................................... $250,000
Increasing the Quality of Life of New Mexicans with Brain Injuries and Caregivers Through Effective Support Services
New Mexico Governor’s Commission on Disability ....................... $100,000
Support for the Southwest Disability Conference
New Mexico Governor’s Commission on Disability ....................... $14,720
Support for the Southwest Disability Conference
New Mexico Developmental Disabilities Planning Council ............. $12,500
Stipends for New Mexicans with Disabilities at the Southwest Disability Conference

CAROL CLERICUZIO
University of California, San Diego .............................................. $15,000
Prospective Follow-Up of Pregnancy Exposure to Humira

LORETTA CORDOVA DE ORTEGA
New Mexico Department of Health .............................................. $317,000
Children’s Medical Services Outreach Clinics Projects
New Mexico Department of Health .............................................. $300,000
CMS Provider Agreement
Molina Healthcare of New Mexico .............................................. $60,000
In-Home Assessments
Alta Vista Regional Hospital ....................................................... $50,000
Professional Services
Children’s National Medical Center ............................................. $40,000
Professional Services
Gallup Indian Medical Center ...................................................... $12,000
Pediatric Dysmorphology On-site Clinical Services
Gallup Indian Medical Center ...................................................... $10,000
Pediatric Endocrinology Services
Taos Clinic for Children and Youth ............................................. $10,000
Professional Services via Telemedicine
PHC - Las Cruces, Inc. ................................................................. $4,728
Professional Services/Consultations
MARK CROWLEY
San Juan Regional Medical Center ........................................ $30,197
Professional Services Agreement
Presbyterian Healthcare Services ........................................... $24,952
Professional Services (ECMO)

THERESA CRUZ
New Mexico Department of Health ........................................ $79,999
Program Evaluation for Improvement in Obesity Prevention Efforts
New Mexico Department of Health ........................................ $20,923
Prevention Research Center Sexual Violence Prevention Technical Assistant Project

LEA DAVIES
Health Resources and Services Administration ......................... $295,571
New Mexico Pediatric Pulmonary
Gilead Sciences ................................................................. $51,285
Clinical Trial - Phase III - GS-US-205-0170
Cystic Fibrosis Foundation .................................................. $37,122
Cystic Fibrosis Center of New Mexico - CF Registry

SALLY DAVIS
Health & Human Services/Centers for Disease Control and Prevention .... $615,000
New Mexico Department of Health
New Mexico Department of Health ........................................ $127,857
ACL School Based Health Centers Projects
New Mexico Department of Health ......................................... $75,000
Team Outreach Program
Albuquerque Area Indian Health Service .................................. $65,780
Santa Fe Community Foundation ........................................... $38,000
Studying Trails Enhancement Plans: Health Impact Assessment
New Mexico Primary Care Association ................................... $30,000
Integrated Medicaid Enrollment
New Mexico Department of Health ......................................... $25,000
Implementing Evidence-Based Recommendations to Increase Physical Activity in Communities: Lessons Learned from the Field
New Mexico Department of Health ......................................... $10,550
Implementing Evidence-Based Recommendation to Increase Physical Activity in Communities: Lessons Learned from The Field

BETH M GOENS
Gallup Indian Medical Center ................................................ $30,000
Pediatric Cardiology On-Site Clinic Services
VisionQuest Biomedical ...................................................... $10,000
3D Ultrasound for Pediatric Cardiology
Ben Archer Health Center, Inc. ............................................. $550
Professional Service Agreement

JESSICA ROSE GOODKIND
Anonymous Non-Profit Foundation ....................................... $50,000
Interdisciplinary Advocacy for Low Income, High-Risk Families

RANDY HEIDENREICH
New Mexico Department of Health ....................................... $116,472
CMS Newborn Screening
Northern Navajo Medical Center .......................................... $4,800
Pediatric Fetal Alcohol Syndrome Clinic Services
Northern Navajo Medical Center .......................................... $4,800
Pediatric Genetic Clinic Services

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

PATRICIA KEANE
New Mexico Human Services Department .............................. $419,000
CHILE Plus-Nutrition Ed Program with Preschool Children and Their Families & Social Marketing
Robert Wood Johnson Foundation ....................................... $90,000
Healthy Kids, Healthy Cuba

CATHERINE McCLAIN
New Mexico Department of Health ....................................... $2,502,933
Autism Programs
New Mexico Human Services Department .............................. $2,000,000
Improving Quality (75/25 & 50/50 Medicaid Match) Supporting Child Development through Evidence-Based Practices
New Mexico Human Services Department .............................. $2,000,000
Improving Quality (75/25 & 50/50 Medicaid Match) Supporting Child Development through Evidence-Based Practices
New Mexico Department of Health ....................................... $1,269,750
Early Childhood Evaluation Program
New Mexico Department of Health ....................................... $878,931
MFCMP Program Budget
Navajo Nation ................................................................. $716,888
Growing in Beauty Program Therapy Services
New Mexico Public Education Department .......................... $693,048
PED Contract
Maternal and Child Health Bureau ........................................ $640,220
New Mexico LEND: Leadership Education in Neurodevelopmental Disabilities
Health & Human Services/Administration for Community Living .... $554,000
ACL: University Center for Excellence in DD Education
New Mexico Department of Health ....................................... $406,840
Early Childhood Network
New Mexico Department of Health ....................................... $212,500
Improving the Quality of Life of New Mexico Youth with Disabilities in Transition
New Mexico Department of Health ....................................... $199,100
Improving the Quality of Life of New Mexico Youth with Disabilities in Transition
Utah State University ......................................................... $136,475
Indian Children's Program
Utah State University ......................................................... $136,475
Indian Children's Program - Amendment # 11
New Mexico Department of Health ....................................... $127,274
New Mexico Safe Program
New Mexico Department of Health ....................................... $111,607
DDSD Statewide Training Database
Pediatrics (continued)

**Catherine McClain (continued)**

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

New Mexico Developmental Disabilities Planning Council ........... $80,000
InfoNet/BabyNet

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

New Mexico Developmental Disabilities Planning Council .......... $75,000
InfoNet-Medicaid

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

New Mexico Developmental Disabilities Planning Council .......... $500
DDPC Logo for Contractors

**Jane McGrath**

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

New Mexico Department of Health .......................................... $292,857
School Based Health Center Health Provision in the Schools

OptumHealth New Mexico ...................................................... $236,987
School Based Health Centers Behavioral Health Quality Improvement

New Mexico Department of Health .......................................... $200,000
Office of School and Adolescent Health

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

HealthInsight New Mexico ....................................................... $60,000
QTP

Youth Development, Inc. ......................................................... $30,000
UNM SBHC Support

New Mexico Department of Health .......................................... $30,000
Albuquerque School-Based Health Centers Project

Albuquerque Public Schools .................................................... $20,000
Envision New Mexico: The Initiative for Child Healthcare Quality

New Mexico Department of Health .......................................... $5,000
Training CMS Providers

New Mexico Department of Health .......................................... $5,000
Coordinating Care via UNM HSC Telehealth Resources

**James McKinnell**

Oregon Health & Science University ....................................... $32,000
Regional Hemophilia Network-Mountain States

University of Colorado – Denver ............................................. $30,190
Prevention of Complication in Hemophilia Through HTCS

**Shiraz Mishra**

National Institutes of Health .................................................. $238,193
New Mexico FRESH: New Mexico’s Future Researchers Exploring Science and Health

National Institutes of Health .................................................. $13,233
New Mexico FRESH: New Mexico’s Future Researchers Exploring Science and Health

**Marcia Moriarty**

New Mexico Children Youth & Family Department ................... $439,400
Nurse Family Partnership

New Mexico Children Youth & Family Department ................... $350,000
Parents as Teachers

New Mexico Children Youth & Family Department ................... $324,000
VISION

New Mexico Children Youth & Family Department ................... $300,000
Quality Child Care

New Mexico Children Youth & Family Department ................... $238,368
Nurse-Family Partnership (NFP) Addendum

New Mexico Children Youth & Family Department ................... $227,500
Home Visiting Training

Albuquerque Public Schools .................................................... $142,624
APS Safe Schools Infant Mental Health

Albuquerque Public Schools .................................................... $112,440
APS Safe Schools Home Visiting

New Mexico Children Youth & Family Department ................... $81,000
VISION

**Robin Ohls**

National Institutes of Health .................................................. $396,982
Brain Imaging and Developmental Follow-up of Infants Treated with Erythropoietin

CureDM Group Holdings, LLC ............................................... $39,460
Developmental of Human Fetal Pancreatic Cell Assays

University of Utah ................................................................. $24,167
Darbe Administration in Newborns Undergoing Cooling for Encephalopathy (DANCE)

National Institutes of Health .................................................. $21,612
Brain Imaging and Developmental Follow-up of Infants Treated with Erythropoietin

**Pat Osbourne**

Albuquerque Public Schools .................................................... $335,000
APS Consultations

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

Rio Rancho Public Schools ..................................................... $50,160
Rio Rancho Consultation

New Mexico Developmental Disabilities Planning Council ......... $37,500
Partners in Policymaking

New Mexico Developmental Disabilities Planning Council ......... $37,500
Partners in Policymaking

Santa Fe Public Schools ......................................................... $25,652
Santa Fe Consultations

New Mexico Developmental Disabilities Planning Council ......... $25,000
Partners in Policymaking Amendment # 1

Cuba Independent Schools ..................................................... $23,235
Cuba Consultations
Johns Hopkins University ................................................................. $5,000
GFAP Biomarker of Whole Body Cooling Outcome and Efficacy in the Neonate with HIE

CARLA SUE WILHITE
University of Texas Health Center at Tyler ................................ $19,806
Pressure Mapping on Tractor Seats for Operators with Paraplegia

STUART WINTER
New Mexico Department of Health ........................................... $15,000
CMS Outreach - Camp Enchantment
Children’s Hospital of Philadelphia ............................................. $15,000
Clinical Trial - Phase III

CRAIG WONG
National Institutes of Health ....................................................... $569,419
Pediatric Investigation for Genetic Factors Associated with Renal Progression
The Children’s Mercy Hospital .................................................... $30,075
CKID Steering Committee
The Children’s Mercy Hospital .................................................... $14,854
CKID Clinical-Per Patient 04-0037-Amendment #11

PSYCHIATRY

STEVEN ADELHEIM
OptumHealth New Mexico ......................................................... $500,000
New Mexico Consortium for Behavioral Health, Training & Research Developmental Support/Center for Rural & Community Behavioral Health (CRCBH/CBHTR)

New Mexico Human Services Department ................................ $142,348
Behavioral Health Consultant
Mescalero Apache Schools .......................................................... $55,000
Mescalero SBHC (School-Based Health Center Project)
La Buena Vida ............................................................................. $44,342
La Buena Vida
Feinstein Institute for Medical Research ........................................ $32,561
Clinical Trial Agreement
Feinstein Institute for Medical Research ...................................... $29,631
ARRA: Clinical Trial Agreement
Feinstein Institute for Medical Research ...................................... $19,650
ARRA: Clinical Trial Agreement
Feinstein Institute for Medical Research ...................................... $9,628
Clinical Trial Agreement

ALYX REEVE
New Mexico Department of Health ............................................ $968,804
Continuum of Care-Primary
New Mexico Department of Health ............................................ $52,750
Continuum of Care-Mortality

VICTOR STRASBURGER
New Mexico Department of Health ............................................ $414,755
Pediatric Services for Sequoyah Adolescent Treatment Center Patients

KRISTI WATTERBERG
NIH/National Institute of Child Health and Human Development .... $264,952
NICHD Cooperative Multicenter Neonatal Research Network
RTI International ........................................................................ $21,321
Clinical Trial - TOP Subaward
NIH/National Institute of Child Health and Human Development .... $14,424
NICHD Cooperative Multicenter Neonatal Research Network
### Psychiatry (continued)

#### Cheryl Aine
- The Mind Research Network .................................... $78,847
- IA-Aine-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

#### Deborah Altschul
- San Felipe Pueblo ................................................... $800,000
- San Felipe System of Care - Helping Our People: Advocating Hope
- W.K. Kellogg Foundation ........................................ $538,404
- Kellogg Mapping & Evaluation Consortium
- New Mexico Children Youth & Families Department .......... $356,855
- CYFD System of Care
- San Felipe Pueblo ................................................. $69,688
- San Felipe Home Visiting Program
- Native American Pueblo Parent Resources, Inc ................. $25,000
- Home Visiting
- Native American Pueblo Parent Resources, Inc ................. $24,534
- Home Visiting

#### Pamela Arenella
- Talaria, Inc. ......................................................... $41,827
- Adaptive Goal-directed Adherence Tracking and Enhancement, SBIR Phase II, NIAA 10-01

#### Pamela Arenella
- The Mind Research Network ..................................... $40,092
- Effectiveness of Varenicline: Testing Individual Differences

#### Edward Bedrick
- The Mind Research Network ..................................... $28,628
- STATN1-Bedrick-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

#### Caroline Alberta Bonham
- Albuquerque Area Indian Health Service ........................ $356,137
- IHS Tele-Behavioral Health Center of Excellence Project
- Hidalgo Medical Services, Inc ..................................... $13,634
- Hidalgo Medical Services (Psychiatric Consultation)
- NIH/National Institute of Mental Health .......................... $7,500
- NICMH Outreach Partnership
- Sangre de Cristo Community Health Partnership ............... $4,000
- Sangre Screening, Brief Intervention, Referral and Treatment Psychiatric Consultation

#### Juan Bustillo
- The Mind Research Network ....................................... $368,259
- ACAS-Bustillo-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration
- NIH/National Institute of Mental Health ........................ $304,538
- Brain Glutamate and Outcome in Schizophrenia
- Covance, Inc. .......................................................... $178,895
- ARIVE Clinical Trial Agreement Phase III
- National Institutes of Health ...................................... $20,302
- Brain Glutamate and Outcome in Schizophrenia
- Shire Development Inc. .............................................. $1,000
- Administrative Costs for Clinical Trial

#### Jose Canive
- National Institutes of Health ..................................... $437,073
- Schizophrenia Gating Deficit Mechanisms: Extending the Circuit
- NIH/National Institute of Mental Health ........................ $29,138
- Schizophrenia Gating Deficit Mechanisms: Extending the Circuit

#### Annette Susan Cristiani
- Patient Centered Outcomes Research Institute ................. $1,485,830
- Patient-Centered Trauma Treatment for PTSD and Substance Abuse: Is It an Effective Treatment Option?
- OptumHealth New Mexico ......................................... $91,072
- Healthy Homes: The Peer Experts Supportive Housing Program Initiative
- OptumHealth New Mexico ......................................... $25,000
- Totah: Evaluation Deliverables for Supported Housing Program Located at Totah Behavioral Health Authority

#### Anilla Del Fabbro
- New Mexico Children Youth & Families Department ............ $63,100
- Child Rural Psychiatry (Fellows Training) Program

#### Paula Hensley
- Genentech, Inc. ....................................................... $8,000
- Clinical Trial Agreement - Phase II
- Forest Research Institute .......................................... $5,000
- Clinical Trial Agreement

#### Dina Hill
- Yale University ....................................................... $20,000
- Development of a Dyslexia Screening Test
- The Mind Research Network ....................................... $14,756
- Neurobiological Correlates of Language Dysfunction in Autism Spectrum Disorders

#### Brian Louis Isakson
- OptumHealth New Mexico ......................................... $78,639
- Jail Diversion: Veteran First Jail Diversion
- OptumHealth New Mexico ......................................... $50,000
- Veteran First and Family Support Services

#### Avron Krischman
- New Mexico Department of Health / Office of School & Adolescent Health ........................................ $125,000
- School-Based Tele-Behavioral Health Project

#### Stephen Lewis
- Feinstein Institute for Medical Research ........................ $45,502
- Clinical Trial Agreement
- Feinstein Institute for Medical Research ........................ $31,500
- Clinical Trial Agreement
- Feinstein Institute for Medical Research ........................ $20,200
- ARRA: Clinical Trial Agreement
RODNEY MCNEASE
Albuquerque Healthcare for the Homeless Inc. .......... $25,000
SCI Services

STEVEN POSSE
The Mind Research Network ........................................... $68,840
IDA-Posse-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple
Neuroimaging Tools to Examine Dysfunction in Neural Integration

ALY REEVE
Family Service Agency of San Francisco, PCORI Subaward ....... $720,919
New Mexico-MPOWER. Managing Patient Outcomes toward Wellness & Recovery

RASHMI SABU
Health & Human Services/Substance Abuse & Mental Health Services
Administration ....................................................... $399,706
Addressing Childhood Trauma through Intervention, Outreach, and Networking

JULIE GRIFFIN SALVADOR
OptumHealth New Mexico ....................................... $188,200
NIDA – Building System Capacity to Implement EBPs within a Community
Based QI Model
OptumHealth New Mexico ....................................... $138,763
Substance Abuse, Pregnant and Post-Partum Women
OptumHealth New Mexico ....................................... $52,000
Total Community Approach

HELENE SILVERBLATT
New Mexico Human Services Department ..................... $225,000
BHSD: Rural Public Psychiatry Residency Training – Behavioral Systems and
Implementation Consultation

LINDSAY SMART
San Felipe Pueblo ..................................................... $193,932
San Felipe Katishyta Embraces Youth Wellness and Hope Project

ROBERT THOMA
The Mind Research Network ....................................... $125,778
Project 5 - Thoma - COBRE Neural Mechanisms of Schizophrenia: Use of Multiple
Neuroimaging Tools to Examine Dysfunction in Neural Integration
The Mind Research Network ....................................... $1,350
Project 5 - Thoma - COBRE Neural Mechanisms of Schizophrenia: Use of Multiple
Neuroimaging Tools to Examine Dysfunction in Neural Integration

CLAIRE ELIZABETH WILCOX
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $180,013
Neural Mechanisms of Change During Treatment of Alcohol Use Disorder
with Prazosin
The Mind Research Network ....................................... $39,524
Attentional Bias Modification: Efficacy and Mechanisms of Action in Cocaine
Addiction

Radiology

CHERYL AINE
NIH/National Institute on Aging ....................................... $429,994
Imaging the Development of Memory Strategies in Aging

PHILIP HEINZ
Sandra National Laboratories ......................................... $16,800
Earth Core CT Scans

LOREN KETAI
National Institutes of Health ......................................... $196,350
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence:
An RCT (MPI)

NIH/National Center for Complementary and Alternative Medicine .... $191,807
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence: An RCT

PHILIP W WIESE
New Mexico Department of Health ............................ $78,000
Breast and Cervical Cancer Early Detection Program
U.S. Department of Veterans Affairs ............................. $42,800
VA Radiological and Nuclear Medicine Diagnostic and Therapy Services
New Mexico Department of Health ............................ $20,000
Breast and Cervical Cancer Early Detection Program
New Mexico Department of Health ............................ $15,500
Breast and Cervical Cancer Early Detection Program

Surgery

ARUP DAS
NIH/National Eye Institute ........................................... $377,500
Inflammatory Chemokines: A Novel Target in Early Diabetic Retinopathy
Jaeb Center for Health Research .................................. $356,122
A Comparative Effectiveness Study of Intravitreal Afiblercept, Bevacizumab
and Ranibizumab for Diabetic Macular Edema (Protocol T)
Jaeb Center for Health Research .................................. $215,074
Prompt Panretinal Photocoagulation vs. Intravitreal Ranibizumab with Deferred
PRP for Proliferative Diabetic Retinopathy
New Mexico Commission for the Blind ........................ $60,000
Emergency Eye Care

DUSAN D DURISTIC
National Institutes of Health ........................................ $326,160
Rhodopsin Trafficking and Photoreceptor Membrane Renewal
National Institutes of Health ........................................ $84,904
Rhodopsin Trafficking and Photoreceptor Membrane Renewal - Diversity Supplement
Department of Health & Human Services/Public Health Service ........ $23,836
Rhodopsin Trafficking and Photoreceptor Membrane Renewal - Diversity Supplement
NIH/National Eye Institute .......................................... $22,836
Rhodopsin Trafficking and Photoreceptor Membrane Renewal

JOHN MAREK
Washington University ................................................. $41,325
Clinical Trial - ATTRACT

JOHN RUSSELL
Albuquerque-AMG Specialty Hospital ................................... $46,200
Administrative Services Surgery
Surgery (continued)

ANIL SHETTY
New Mexico Department of Health ........................................ $6,000
Cleft Palate Clinic Services

Dental Medicine

GARY CUTTRELL
New Mexico Higher Education Department ........................... $1,000,000
UNM Dental Residency Program
Sandoval County ............................................................... $62,688
Dental Services
Albuquerque Public Schools ................................................ $25,000
Dental Hygiene
Albuquerque Public Schools ................................................ $25,000
Dental Hygiene
Albuquerque Healthcare for the Homeless Inc ........................ $23,618
Albuquerque Healthcare for the Homeless

PETER JENSEN
El Pueblo Health Service ..................................................... $280,029
Innovation in Primary Care Oral Health: Interprofessional Team Practice

CHARLES TATLOCK
New Mexico Department of Health ...................................... $268,983
Basic Oral Health Services

The Echo Institute

SANJEEV ARORA
Robert Wood Johnson Foundation ....................................... $5,000,000
Project ECHO National Expansion
Gilead Sciences ................................................................. $284,670
Clinical Trial - Phase III

UNIVERSITY OF NEW MEXICO HOSPITAL

MARY BLESSING
New Mexico Department of Health ................................. $23,210
Youth Development Pathways to Promote Health in Rural New Mexico Project
New Mexico Department of Health ................................. $23,210
Youth Development Pathways to Promote Health in Rural New Mexico Project
New Mexico Department of Health ................................. $23,210
Youth Development Pathways to Promote Health in Rural New Mexico Project

STEVE MCKERNAN
City of Albuquerque ......................................................... $665,000
Assertive Community Treatment Program
City of Albuquerque ......................................................... $665,000
Assertive Community Treatment Program
City of Albuquerque ......................................................... $151,050
Primary Care Program
City of Albuquerque ......................................................... $134,000
Gang Prevention Program
First Choice Community Healthcare ................................ $35,654
Patient Services Representatives
New Mexico Department of Health .................................... $27,500
UNM Hospital Preparedness
First Nations Community Healthsource, Inc ........................ $25,000
Outpatient SCI Coverage
New Mexico Department of Health .................................... $25,000
Carrie Tingley Hospital Preparedness
New Mexico Department of Health .................................... $20,000
Behavioral Health Hospital Preparedness
Los Alamos Public Schools ................................................. $3,000
Neuropsychological Evaluation

RODNEY MCNEASE
Albuquerque Public Schools ............................................... $12,000
Behavioral Health Assessment and Treatment for Students

KEVIN ROGOLS
New Mexico Department of Health .................................... $47,805
rauma Agreement

DORIS TINAGERO
New Mexico Children Youth & Family Department ................ $100,000
Home Visits and Education
Donate to Research

Our research programs are focused on critical health problems affecting New Mexicans and bridge the gap to more rapidly deliver discoveries to the clinical setting. Your contribution will help us meet new challenges and seek solutions to help people lead longer and healthier lives. The UNM Foundation can accommodate almost any giving interest, including health research in general, a particular disease category, or one of our signature programs.

Please contact Bill Uher for more information
bill.uher@unmfund.org or 505.277.4078