UNM Health Sciences Center Annual Report of Contracts and Grants, 2013

Luke Frank
Paul Akmajian
Sara Mota
Michael Haederly
Kara McKinney

See next page for additional authors

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Authors
Luke Frank, Paul Akmajian, Sara Mota, Michael Haederly, Kara McKinney, Heidi Rishel Brakey, and Rebecca Gustaf
PIONEERING RESEARCH • DISCOVERING TOMORROW’S CURES
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.
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 Office of Research 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 UNM Health Sciences Center’s Office of Research is adapting well to the erratic biomedical research landscape, having attracted a record $149,797,916 in contracts and grants for Fiscal Year 2013. HSC faculty and staff continue to demonstrate their professional versatility and determination in developing valid investigations and programs to improve the lives of New Mexicans – right in line with the HSC’s Vision 2020 strategic plan.

The HSC’s community-based participatory research, clinical research and basic research endeavors have long been a resource for preventing, diagnosing and treating diseases specific to New Mexico’s diverse population. Consequently, the HSC has amassed a statewide network of important clinical sites and telehealth links over the years to serve underrepresented populations in New Mexico’s farthest reaches.

As our network has spread, our core has strengthened. The Health Sciences Center is one of only 40 academic health centers in the nation with both an NIH-designated Clinical and Translational Science Center and a National Cancer Institute-designated Cancer Center. Our investigators are erasing lines, forming powerful teams of basic science and clinical research experts who are conducting complex investigations in our research labs, teaching hospitals and communities. Our faculty’s enthusiasm for sharing their knowledge and innovations with one another has been a significant factor in our adaptability and success.

By design, the addition of numerous specialty research centers, programs and laboratories to the HSC over the past 10 years offers a rich and robust environment for current and future HSC investigators. I invite you to continue reading about the important health questions we’re asking, and the solutions our research teams and communities 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.
FROM THE DEAN OF THE COLLEGE OF PHARMACY

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.

Lynda S. Welage, PharmD, FCCP
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 partners at UNM’s Clinical and Translational Science Center, the Cancer Center, the Spatiotemporal Modeling Center, the Human Papillomavirus Research Center, the statewide ECHO Program and numerous neurosciences programs. 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.”
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 in a trial led by Dr. Corey Ford 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.”

Ford, who has been studying and treating the disease for more than two decades, 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.”
CAN WE EXPAND THE WINDOW OF OPPORTUNITY FOR TREATING STROKE PATIENTS?

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.”

Principal Investigator
Ke Jian Jim Liu, PhD, Professor of Pharmaceutical Sciences, College of Pharmacy

Grant Name
Blood Biomarker for Early Blood-Brain Barrier Disruption in Ischemic Stroke

Grantor
Accelera Diagnostics
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
IS THERE A WAY TO REVERSE VISION LOSS IN DIABETES?

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, demla a:hoi hon yansatdunap’du.”
(English: “Let’s have a vision to help all human beings!”)
WHAT ARE THE LONG-TERM EFFECTS OF ASTHMA MEDICATION ON KIDS?

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.”

Principal Investigator
Hengameh Raissy, PharmD, Associate Director, Clinical and Translational Sciences Center, School of Medicine, Department of Pediatrics, Division of Pulmonology

Grant Name
CAMP Continuation Study (Phase III)

Grantor
NIH – National Heart, Lung and Blood Institute
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

Principal Investigator
Craig Wong, MD, MPH, Associate Professor, Department of Pediatrics; Division Chief of Pediatric Nephrology

Grant Name
Chronic Kidney Disease in Children (CKiD); Pediatric Investigation of Genetic Factors for Renal Progression (PediGFR)

Grantor
NIH

Adam Myers and family at Disney World during a trip sponsored by the Make-A-Wish Foundation
has already resulted in very important information to help improve care of children with kidney disease, says Wong, who is also principal investigator of an ancillary study to identify genetic factors associated with the rate of kidney function decline. To conduct this type of genomic analysis, he coordinated recruitment of 1,400 patients from 55 clinics in the U.S. and 33 clinics in Europe.

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.
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 usings 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.”

Principal Investigator
Vojo Deretic, PhD, Chair and Professor, Department of Molecular Genetics & Microbiology

Grant Name
Pattern Recognition Receptors and Autophagy in Mycobacterium Tuberculosis Control in AIDS; Autophagy as a Cell-Autonomous Mechanism of HIV Control (Phase II GCE)

Grantors
NIH - NIH/National Institute of Allergy and Infectious Diseases; Bill and Melinda Gates Foundation

Source: Deretic, J Immunology, 2012.

Featured on http://vimeo.com/hsctv/deretic
CAN WE FIND NEW USES FOR
DRUGS TO IMPROVE
OUR HEALTH?

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.”

Principal Investigator
Nancy Morton, MS, RN, College of Nursing

Grant Name
Veterans Affairs Nursing Academy Partnership (VANAP) Program

Grantor
US Veterans Administration
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 (Carries 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-Bizozero, 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, FACP; 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.

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.

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.

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.
UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER

RESEARCH HIGHLIGHTS AND MILESTONES

1940s

1945
College of Pharmacy established.

1950s

1954
Bernalillo County Indian Hospital (BCIH) opens.

1955
College of Nursing begins accepting students.

1960s

1964
UNM School of Medicine opens.

1967
Basic Medical Sciences Building opens.

1970s

1972
First centralized radiopharmacy program established.

1975
UNM Cancer Research & Treatment Center opens.

1968
BCIH is renamed Bernalillo County Medical Center, eventually to become UNM Hospital.

1977
UNM Medical Center established.
UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER
A NNUAL REPORT OF CONTRACTS AND GRANTS, 2013

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.

1998
Cancer Research Facility 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
MTSC building opens.

2010
The Clinical and Translational Science Center receives NIH designation.

2010
Mountain West Research Consortium created.

2012
Innovation, Discovery and Training Complex opens.

2013
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

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

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 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

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

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

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

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

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

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

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

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 Quaals, 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

197%
Award increase since 1997

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
Special thanks to the Office of Pre-Award for their assistance.
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<td><strong>Gale Hannigan</strong></td>
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<td><strong>Paul B. Roth / Richard S. Larson</strong></td>
<td><strong>I Heard It On The Radio</strong></td>
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<td>Houston Academy of Medicine</td>
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<td><strong>Carolyn Voss</strong></td>
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**OFFICE OF COMMUNITY HEALTH**

| **Arthur Kaufman**                | **Locum Tenens**                               |
| New Mexico Department of Health   | New Mexico Department of Health                |
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| **Carolyn Voss**                  | **Cheryl Willman**                             |
| New Mexico Department of Health    | Department of Health & Human Services/Indian Health Service |
| ........................................ | .................................................. |
| **Sarah Lathrop**                 | **Clinical and Translational Science**         |
| New Mexico Department of Health    | **Christopher Abbott**                         |
| ........................................ | Dana Foundation                                |
| **Veronica Plaza**                | **Ellen Beswick**                              |
| Southwest Creations Collaborative. | University of Texas Medical Branch at Galveston |
| ........................................ | .................................................. |
| **Mark Burge**                    | **Marco Bisoffi**                              |
| University of Utah                 | University of California-Davis                 |
| ........................................ | .................................................. |
| **Richard Larson**                | **Richard Larson**                             |
| New Mexico VA Health Care System  | NIH/National Center for Advancing Translational Sciences - UL1 - Year 4 |
| ........................................ | .................................................. |

Lu Li, MD

Lauren Beswick

The Role of Alters B7-Homologue Expression by Intestinal Subepithelial Myofibroblasts in Inflammatory Bowel Disorder

**Marco Bisoffi**

University of California-Davis

Development of a Rapid Point of Care Biosensor for the Detection of Blood-Borne Viruses

**Mark Burge**

University of Utah

Iron-induced Oxidative Stress and Mitochondrial Dysfunction: Effects on Insulin Secretion and Insulin Sensitivity-CTSC Affiliate

**Richard Larson**

NHI/National Center for Advancing Translational Sciences - UL1 - Year 4

Clinical and Translational Science Center - KL2 - Year 4

Biomedical Research Institute of New Mexico

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
Simeprevir 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

Joseph Sanchez
Stanley Snowden, PharmD

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 NSAI Enantiomer Selectivity for Cancer Therapy (POSI) (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

inviro ................................................................. $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

inviro ................................................................. $50,480
Task 18: Peptides Ahx-SFp(5-18)

inviro ................................................................. $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)

inviro ................................................................. $13,137
Task 16 April 2012: Radiolabeling & SPECT/CT Imaging of Pegylated NBN, PEG, and Iodotyrosine for Labeling Validation, Study of in Vivo Targeting and Pharmacokinetics in a Rat Model of Neuropathic Pain (CCI)

inviro ................................................................. $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

inviro ................................................................. $8,932

inviro ................................................................. $3,542
Task 15: Peptides Ahx-SFp(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 I. 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 Wittstrom

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
El Pueblo Health Service ......................................................... $22,922
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
Cancer Research & Treatment Center (continued)

MARIANNE BERWICK (CONTINUED)
Memorial Sloan-Kettering Cancer Center ........................................ $19,200
The Framing School Study of Nevi in Children: SONIC II
Memorial Sloan-Kettering Cancer Center ........................................ $10,968
Validation of the Use of Whole-Genome Amplified DNA in a Population-Based Study

LINDA SUE COOK
NIH/National Cancer Institute .................................................. $542,855
Mitochondrial DNA and Ovarian Cancer Risk and Recurrences
Fred Hutchinson Cancer Research Center ................................. $156,678
Understanding and Preventing Breast Cancer Disparities in Latinas: Project 4
Fred Hutchinson Cancer Research Center ................................. $112,632
Understanding and Preventing Breast Cancer Disparities in Latinas: Project 3
NIH/National Cancer Institute .................................................. $111,568
Mitochondrial DNA and Ovarian Cancer Risk and Survival
Fred Hutchinson Cancer Research Center ................................. $49,113
Administrative Supplement to Understanding and Preventing Breast Cancer in Latinas: Project 4

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
Consulate of Mexico in Albuquerque ......................................... $36,000
Ventanilla de Salud
American Cancer Society ...................................................... $22,725
UNMCC Mobile Mammography Screening Program
New Mexico Department of Health .......................................... $15,000
Native American Cancer Education Project 2014
New Mexico Department of Health .......................................... $8,000
Native American Cancer Education Project 2013 (Reducing Health Disparities)

ZONEDDY DAYAO
Brigham and Women’s Hospital ............................................. $101,048
CCOP Cancer Prevention and Symptom Intervention Pilot Project Funds
New Mexico Cancer Care Alliance .......................................... $94,544
Clinical Trial Phase 3

ESME FINLAY
Dana Farber Cancer Institute .................................................. $32,569
INST DFCI 09-250 Coping with Cancer II
Dana Farber Cancer Institute .................................................. $18,438
INST DFCI 09-250 Coping with Cancer II

SARAH FOSTER-ADAMS
American Cancer Society ....................................................... $729,000
Intestinal Immune Tolerance Promotes Ovarian Cancer Dissemination
Ovarian Cancer Research Fund, Inc. ......................................... $150,000
A Combination Therapy for Hereditary Ovarian Cancer
Ovarian Cancer Research Fund, Inc. ......................................... $143,152
A Combination Therapy for Hereditary Ovarian Cancer

DEIRDRE HILL
NIH/National Cancer Institute ................................................ $237,164
Towards a Transdisciplinary Understanding of Breast Cancer Survival Disparities
Group Health Research Institute ............................................ $35,562
Risk Based Breast Cancer Screening in Community Settings
Dartmouth College ................................................................. $1,586
Mammography Study Address File

RICHARD HOFFMAN
NCIRE - The Veterans Health Research Institute ...................... $52,426
Prostate-Specific Antigen Practices and Outcomes in the Elderly
Georgetown University .......................................................... $15,171
Treatment Decisions and Patient Reported Outcomes in Low Risk Prostate Cancer

HUINING KANG
Gabrielle’s Angel Foundation ................................................ $25,000
Statistical Methods for Evaluating Cancer Biomarkers

RICHARD LAUER
New Mexico Cancer Care Alliance .......................................... $75,705
Clinical Trial - Phase II

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

FA-CHYI LEE
New Mexico Cancer Care Alliance .......................................... $134,414
Clinical Trial - Phase Ib

ELIZABETH MCGUIRE
New Mexico Cancer Care Alliance .......................................... $130,524
Clinical Trial - Phase II
New Mexico Cancer Care Alliance .......................................... $89,674
Clinical Trial - Phase III
New Mexico Cancer Care Alliance .......................................... $62,639
Clinical Trial - Phase III

CAROLYN MULLER
New Mexico Cancer Care Alliance .......................................... $89,363
Clinical Trial - Phase III
New Mexico Cancer Care Alliance .......................................... $80,400
Clinical Trial - Phase III

JANET OLIVER
NIH/National Cancer Institute ............................................... $370,811
Integrative Cancer Nanoscience And Microsystems (IC-NSMS) Training Center

MICHELLE OZBUN
American Cancer Society ...................................................... $120,000
American Cancer Society Institutional Research Grant (ACS-IRG)
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<tr>
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<td><strong>Ashwani Rajput</strong></td>
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<td><strong>Larry Sklar</strong></td>
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<td>Small Molecule Discovery with HTS Multiplex Flow Cytomert and FAP Technology</td>
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<td><strong>Alan Tomkinson</strong></td>
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<td>Roles of Llg3 and XRCC1 Genes in Genome Stability</td>
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<td>Peptide-Directed Protocells and Virus-like Particles-New Nanoparticle Platforms for Targeted Cellular Delivery of Multicomponent Cargos (MPI)</td>
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<td>In Vivo Models for Design and Optimization of Targeted Nanocarriers (Protocells) for Leukemia Therapy</td>
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<td>U.S. Department of Veterans Affairs</td>
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**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
NFATC3 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 Vasocostrictor Reactivity Following Intermittent Hypoxia

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

**Benjimen 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 Speciality LP ....................................................... $80,750
Improving Outcomes in Depression Management

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

Janssen Pharmaceutical .............................................. $75,000
2012 Fall Clinical Dermatology Conference

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 Health 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
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<td><strong>LAURA BANKS</strong></td>
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<td>Albuquerque Medical Reserve Corps Non-Competitive Capacity Building Award</td>
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<td>47th Medical Company, New Mexico State Guard Medical Reserve Corps Non-Competitive Capacity Building Award</td>
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<td>Airway 911 for BLS and ILS Providers—A Multimedia Online Training Program</td>
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<td>Department of Health &amp; Human Services/National Center for Chronic Disease Prevention and Health Promotion/CDC</td>
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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 ............................ $219,564
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 Tollestrup
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

Miri Kano, PhD
**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
Medicaid 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**
Lovelace 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 HEYNEKAMP**
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
Lovelace Respiratory Research Institute .................. $75,000
Lovelace 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
Lovelace Respiratory Research Institute .................. $6,000
Lovelace 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-α 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 MERZ**
- 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

### 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 Glycemia 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  
  ENaC as a Novel Mechanism for Hypertension and Volume Expansion in Type 2 Diabetes
- Dialysis Clinic, Inc. ............................................... $10,000  
  DCI Medical Directorship and QA
Molecular Genetics and Microbiology

KIRAN BHASKAR
National Institutes of Health ........................................ $192,677
The Role of Microglial-and Neuron-Specific My D88 Signaling in Tauopathies
NIH/National Institute of Neurological Disorders and Stroke .... $169,875
The Role of Microglial-and Neuron-Specific My D88 Signaling in Tauopathies
Alzheimer’s Association .................................................. $84,266
Role of Tau Protein in the Inflammation-Mediated Neurotoxicity
NIH/National Institute of Neurological Disorders and Stroke .... $12,269
The Role of Microglial-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
NIH/National Institute of Allergy and Infectious Diseases ....... $15,100
The Role of PKCtheta in T Cell and T-ALL Migration
Northwestern University ............................................... $7,550
The Fibrin Protein in CIP4 in Wasp Dependent Thrombocytopenia

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

VOJO 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
NIH/National Institute of General Medical Sciences ............ $21,919
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
NIH/National Cancer Institute ..................................... $553,060
Alternative RNA Splicing and Variant Protein Products in Leukemia Outcome
National Institutes of Health ....................................... $450,117
Mutation and Target Genes in Adenoid Cystic Carcinoma

MARY ANN OSLEY
NIH/National Institutes of General Medical Sciences .......... $361,268
Genetic Analysis of H2B Ubiquitylation in Yeast
NIH/National Cancer Institute ..................................... $109,252
Role of Histone H2B Ubiquitylation in DNA Replication

MICHELLE OZBUN
NIH/National Cancer Institute ..................................... $150,957
Entry of Oncogenic HPVs into Human Keratinocytes
NIH/National Cancer Institute ..................................... $132,842
Entry of Oncogenic HPVs into Human Keratinocytes
Novartis ................................................................. $39,504
Cyclophilin Inhibition of HPV Infection
NIH/National Cancer Institute ..................................... $31,487
Entry of Oncogenic HPVs into Human Keratinocytes RFA: Supplement to Promote Diversity in Health-Related Research
National Institutes of Health ....................................... $25,208
Entry of Oncogenic HPVs into Human Keratinocytes
NIH/National Cancer Institute ..................................... $22,182
Entry of Oncogenic HPVs into Human Keratinocytes
New Mexico Biopark Society ....................................... $1,200
Detection of Elephant Endotheliotropic Herpesviruses Strains EEHV1A and EEHV1B in ABQ BioPark Elephants

DAVID PEABODY
SAIC ......................................................................... $53,146
VLOP/Mimitope Screening for Anti-RHS Monoclonal Antibodies
SAIC ......................................................................... $53,146
VLOP/Mimitope Screening for Anti-RHS Monoclonal Antibodies
Sandia National Laboratories ...................................... $8,000
Single-Chain Antibody Display on VLP’s
Sandia National Laboratories ...................................... $6,000
Single-Chain Antibody Display on VLP’s

Levi Maston and Katelyn Reinhart
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  
Clinical Trial - Phase IV

**BRANKO HUISA**
PhotoThera, Inc .......................................................... $50,000  
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 SURIQJ**
NIH/National Institute of Neurological Disorders and Stroke .......... $330,313  
Role of Brain Specific Tyrosine Phosphatase STEP in Neuroprotection and Death

**JOHN PHILLIPS**
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
Corticostrital 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-BIZZOCERO
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 SHUTTLEWORTH
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/Veteran's 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 PFDN 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
U.S. Department of Justice Expert Witness- Sanders et al. vs. U.S.A.
U.S. Department of Justice ................................................. $5,870
Expert Witness- Tosie 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 ........................................ $337,750  
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 & Burkholderia 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-Oocs

**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

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**Michael Wilson, PhD**
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| **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 ..................................... |
| **KOBI BOAYUE**           |
| St. Baldrick’s Foundation ...................................................... $60,500 |
| Infrastructure and Education Grant Request ................................ |
| Children’s Hospital of Philadelphia ..................................... $44,500 |
| Clinical Trial .......................................................................... |
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| Clinical Trial - Work Order INDUSTRY ...................................... |
| Children’s Hospital of Philadelphia ..................................... $37,000 |
| Per Case Reimbursement: NIH COG Grant Order-Non Industry .......... |
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| 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 CLERICIZIO**      |
| 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 |
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| 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 ........................................... |

*Susan Tigert, PhD*
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Catherine McClain (continued)

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  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
  QTIP
Youth Development, Inc. .................................................... $30,000
  UNMH 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 Moriarta

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 (ED ) ...................................... $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
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**Janet Page-Reeves**

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**Mark Pedrotty**

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<td>Professional Services</td>
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**Linda Peñaloza**

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<tr>
<th>Organization/Project Description</th>
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<tr>
<td>New Mexico Department of Health</td>
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<td>Youth, Risk, Resiliency Survey Project (YRRS)</td>
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<td>Youth, Risk, Resiliency Survey Project (YRRS)</td>
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<td>W.K. Kellogg Foundation</td>
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<td>New Mexico Department of Health</td>
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<td>New Mexico Public Education Department</td>
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<td>Participation in the School Tobacco Policy Project</td>
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**Hengameh Raissy**

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<th>Organization/Project Description</th>
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<td>Avisa Pharma, Inc.</td>
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<td>Clinical Trial - Phase III</td>
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<td>Parexel International</td>
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<td>Parexel International</td>
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<td>Vertex Pharmaceuticals Incorporated</td>
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**Alya Reeve**

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<td>Continuum of Care-Mortality</td>
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**Victor Strasburger**

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<th>Organization/Project Description</th>
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<tr>
<td>New Mexico Department of Health</td>
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<td>Pediatric Services for Sequoyah Adolescent Treatment Center Patients</td>
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**Kristi Watterberg**

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<td>RTI International</td>
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<td>NIH/National Institute of Child Health and Human Development</td>
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**Carla Sue Wilhite**

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<th>Organization/Project Description</th>
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<td>University of Texas Health Center at Tyler</td>
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<td>Pressure Mapping on Tractor Seats for Operators with Paraplegia</td>
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**Stuart Winter**

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**Craig Wong**

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<td>Pediatric Investigation for Genetic Factors Associated with Renal Progression</td>
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**Psychiatry**

**Steven Adelsheim**

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<th>Organization/Project Description</th>
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**Essence Hand, BS/BA**
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 ALTSCHL
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
STATN-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
NIMH 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. ....................................................... $178,395
ARRIVE 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 CRISTANI
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
Total: Evaluation Deliverables for Supported Housing Program Located at Total Behavioral Health Authority

ANILLA DEL FABBRO
New Mexico Children Youth & Families Department ............... $63,100
Child Rural Psychiatry (Fellows Training) Program

PAULA HENSLLEY
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 KRIECHMAN
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

Erin Watson
RODNEY MCNEASE
Albuquerque Healthcare for the Homeless Inc. $25,000
SCI Services

STEVEN ROSSE
The Mind Research Network $68,840
IDA-Rosse-CORE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

ALY REEV
Family Service Agency of San Francisco, PCORI Subaward $720,919
New Mexico-MPOWR: 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 GRIMM SALVADOR
OptumHealth New Mexico $188,200
NIDA – Building System Capacity to Implement EBPs within a Community Based Q.I. Model

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 Keshitsha Embraces Youth Wellness and Hope Project

ROBERT THOMA
The Mind Research Network $125,778
Project S - 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

JOHN RUSSELL
Albuquerque-AMG Specialty Hospital $46,200
Administrative Services Surgery

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

PHILIP W WEST
New Mexico Department of Health $78,000
Breast and Cervical Cancer Early Detection Program

ARUP DAS
NIH/National Eye Institute $377,500
Inflammatory Chemokines: A Novel Target in Early Diabetic Retinopathy

DUSANKA DERETIC
National Institutes of Health $326,160
Rhodopsin Trafficking and Photoreceptor Membrane Renewal

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

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Albuquerque-AMG Specialty Hospital $46,200
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Administrative Services Surgery

RODNEY MCNEASE
Albuquerque Healthcare for the Homeless Inc. $25,000
SCI Services

STEVEN ROSSE
The Mind Research Network $68,840
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National Institutes of Health $326,160
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
UNMH 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
Trauma 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