UNM HEALTH SCIENCES CENTER
RESEARCH ANNUAL REPORT 2015

TRANSFORMATION
TURNING RESEARCH INTO 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.

**Mission**

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

**Core Values**

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

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

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

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

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

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

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

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

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

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

But that is only part of the story.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

“Perhaps most importantly, the CTSA enables us to conduct meaningful research that brings hope to our patients throughout the state,” he says. “This accomplishment demonstrates the terrific progress we have made in just five years as a CTSA recipient. We are excited to contemplate the many new advances in coming years that will benefit New Mexicans.”
PROMISES KEPT

UNM CANCER CENTER WINS COVETED NCI DESIGNATION

“Fifteen years ago, we made a promise to be of service to the people of New Mexico and to overcome New Mexico’s cancer burden,” says Cheryl Willman, MD.

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

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

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

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

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

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

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

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

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

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

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

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

“Additionally, given our state’s limited behavioral health workforce and health disparities, this research has major implications for public health in New Mexico.”

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Principal Investigator
Deborah Altschul, PhD
Assistant Professor and Division Chief, Community Behavioral Health, Department of Psychiatry and Behavioral Sciences

Grant Name
New Mexico Screening, Brief Intervention and Referral to Treatment

Grantors
Substance Abuse and Mental Health Services Administration, New Mexico Behavioral Health Services Division
The human brain – containing some 86 billion neurons (and trillions of connections among them) – is the most intricate known structure in the universe. A special team is needed to tackle this complexity and devise new treatments for neurological diseases and injuries.

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

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

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

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

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

**DREAM TEAM**

**COLLABORATING ACROSS CAMPUS TO TREAT BRAIN INJURY**

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

**Grant Name**
UNM Center for Brain Recovery and Repair

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HOW EARLY LIFE STRESS RESHAPES THE BRAIN

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

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

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

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

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

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

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

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

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

With these promising findings, Bearer’s goal is to discover biomarkers that could help identify traumatized children early and channel them quickly into intervention programs. “I would like to find a way to heal these children,” she says.
UNM Health Sciences Center researchers continually seek new cures and treatments to improve health and save lives.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

M. Frank Erasmus, PhD Candidate
F31 Recipient, NIH
Targeting the pre-BCR in precursor B acute lymphoblastic leukemia
Mentors: Bridget Wilson, PhD; Tudor Oprea, MD, PhD
<table>
<thead>
<tr>
<th>Name</th>
<th>Role/Program</th>
<th>Research Focus</th>
<th>Mentors/Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jon Femling, MD, PhD</td>
<td>KL2 Scholar, CTSC</td>
<td>Translating novel therapeutic pathways against Staphylococcus aureus pathogenesis into patients presenting to the emergency department</td>
<td>Cameron Crandall, MD; Patti Gravitt, PhD</td>
</tr>
<tr>
<td>Rubi Figueroa-Teran, PhD</td>
<td>K12 Scholar, NIH/NIGMS</td>
<td>Enzymatic biofuel cells for production of energy for biomedical applications</td>
<td>Plamen Atanassov, PhD</td>
</tr>
<tr>
<td>Brandi Fink, PhD</td>
<td>KL2 Scholar, NIH/NCATS</td>
<td>Neuropsychophysiological mediators of the association between alcohol use and intimate partner violence</td>
<td>Fernando Valenzuela, MD; Michael Bogenschutz, MD</td>
</tr>
<tr>
<td>Dallas Benjamin Flies, PhD</td>
<td>T32 Recipient, NIH/NIAID</td>
<td>Identification of biomarkers and development of immunotherapeutics for ovarian cancer</td>
<td>Sarah R. Adams, MD</td>
</tr>
<tr>
<td>Natalie Fredette, PhD Candidate</td>
<td>T32 Recipient, NIH</td>
<td>Role of G protein-coupled estrogen receptor in regulation of vascular endothelial and smooth muscle function</td>
<td>Eric Prossnitz, PhD</td>
</tr>
<tr>
<td>Matt Graus, MS</td>
<td>T32 Recipient, NIH/NIAID</td>
<td>Understanding how the fine-scale structures of the cell wall surface of Candida species fungal pathogens controls C-type lectin recruitment on innate immune cells, and how that affects the downstream immune response</td>
<td>Aaron K. Neumann, PhD</td>
</tr>
<tr>
<td>Anastasia Griego, PhD Candidate</td>
<td>F31 Recipient, NIH/NCI</td>
<td>Regulation of human papillomavirus replication via cell signaling pathways</td>
<td>Michelle A. Ozbun, PhD</td>
</tr>
<tr>
<td>Molly Harmon, PhD Candidate</td>
<td>T32 Recipient, NIH</td>
<td>Studying the prevalence and underlying mechanisms of metals-induced oxidation of LDL cholesterol and testing the circulating inflammatory potential in a Navajo community disproportionately affected by uranium mining</td>
<td>Matthew Campen, PhD, MSPH</td>
</tr>
<tr>
<td>Jennifer Hetteema, PhD</td>
<td>K23 Scholar, NIH</td>
<td>Mentored research on improving alcohol brief interventions in medical settings</td>
<td></td>
</tr>
<tr>
<td>Joseph Hoover, PhD</td>
<td>K12 Scholar, NIH/NIGMS</td>
<td>Using public health, resource management and geographic information science to identify contaminated water and land resources on the Navajo Nation</td>
<td>Johnnnye Lewis, PhD</td>
</tr>
<tr>
<td>Stephanie Jerman, PhD</td>
<td>F31 Recipient, NIH</td>
<td>OFD1 as constituent of a multimeric protein complex in odontoblast primary cilia</td>
<td>Angela Wandinger-Ness, PhD</td>
</tr>
<tr>
<td>Jaime Javier Juarez, PhD</td>
<td>K12 Scholar, NIH</td>
<td>Utilizing fabrication and optical interrogation techniques to improve flow cytometry particle detection at the nanoscale and at high speed</td>
<td>Andrew Shreve, PhD; Keith Lidke, PhD</td>
</tr>
</tbody>
</table>
Britta E. Lindquist, MD/PhD Candidate
F31 Recipient, NIH/NINDS
Studying how adenosine accumulation following spreading depolarization in ischemia contributes to progression of stroke injury
Mentor: Bill Shuttleworth, PhD

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

How Public-Private Partnerships Promote Biotechnology

Extramural Funding Sources | UNM HSC | Public/Private
---|---|---
Idea | Discovery Accelerates | Patent
Giving Life to Innovation

Licensing and Start-Up Funding

Growth and Payout

Broader Economic Development

Public/Private

Private

Revenue

RESEARCH ANNUAL REPORT 2015
2015 Excellence in Research Awards

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

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

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

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

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

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

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

UNM HSC RESEARCH 2015

1,178
Total full-time faculty

306
Principal investigators extramurally funded

85
Community research sites in New Mexico

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

38
Business startups over 10 years

849
Proposals awarded

$160,753,570
Total awards in FY 2015
FY 2015 (JULY 1, 2014 - JUNE 30, 2015)
### CHANCELLOR FOR HEALTH SCIENCES

**RICHARD LARSON**  
UNM Foundation .......................................................... $477,944  
Private Gifts for Research  
UNM Foundation .......................................................... $351,435  
Private Gifts for Research  
UNM Foundation .......................................................... $317,472  
Private Gifts for Research  
UNM Foundation .......................................................... $245,542  
Private Gifts for Research

### UNM Foundation.................................................. $477,944  
Private Gifts for Research  
UNM Foundation .......................................................... $351,435  
Private Gifts for Research  
UNM Foundation .......................................................... $317,472  
Private Gifts for Research  
UNM Foundation .......................................................... $245,542  
Private Gifts for Research

### Financial Aid

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

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

### HEALTH SCIENCES LIBRARY AND INFORMATICS CENTER

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

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

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

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

### OFFICE OF RESEARCH

**Richard Larson**  
Lovelace Respiratory Research Institute .................................. $48,957  
BSGP Administrative Support Agreement  
Lovelace Respiratory Research Institute .................................. $9,474  
BSGP Administrative Support for Fellowships

**PAUL ROTH AND RICHARD LARSON**  
Association of American Medical Colleges ............................. $107,100  
Developing a Workforce to Improve Health and Reduce Disparities

### Animal Resource Facility

**RICHARD LARSON**  
New Mexico VA Health Care System ...................................... $26,050  
Veterinary Services

### Biomedical Research Educational Program

**RICHARD LARSON**  
Lovelace Respiratory Research Institute .................................. $72,727  
BSGP Fellowship Agreement  
Lovelace Respiratory Research Institute .................................. $38,355  
BSGP Fellowship Support

### CLINICAL & TRANSLATIONAL SCIENCE CENTER

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

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

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

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

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

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

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

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

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

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

### COLLEGE OF NURSING

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

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

**Emily Haozous**  
Feinstein Kean Healthcare ......................................... $14,500  
Study of Trinity Radiation Doses and Cancer Risks Resulting from 1945 “Trinity” Atomic Weapon Test  
Social & Scientific Systems ........................................... $10,610  
Study of Trinity Radiation Doses and Cancer Risks  
Feinstein Kean Healthcare ......................................... $6,000  
Study of Trinity Radiation Doses and Cancer Risks  
Spirit of EAGLES ...................................................... $2,500  
Hampton Faculty Fellows Program Cohort II

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

**Shana (Suzanne) Marie Judge**  
Robert Wood Johnson Foundation ................................ $1,278,913  
Nursing and Health Policy Collaborative at UNM

**Amy Jo Levi**  
HHS/Health Resources and Services Administration ........ $350,000  
ACA-Advanced Education Nursing Traineeships  
HHS/Health Resources and Services Administration ........ $350,000  
ACA-Advanced Education Nursing Traineeships  
HRSA/Bureau of Primary Health Care  
ACA-Nurse Faculty Loan Program (NFLP) FY 16  
University of California, San Francisco ......................... $12,272  
Early Pregnancy Loss

**Judy Liesveld**  
Robert Wood Johnson Foundation ................................ $300,000  
Academic Progression in Nursing  
New Mexico Board of Nursing ....................................... $158,771  
New Mexico Nursing Education Statewide Planning

**Nancy Morton**  
New Mexico VA Health Care System ................................ $436,561  
VA Nursing Academic Partnerships IPA: Marisa Francis (Years 2-4)  
New Mexico VA Health Care System ................................ $399,406  
VA Nursing Academic Partnerships IPA: Kimberly Madden

**Barbara Ann Overman**  
El Pueblo Health Services ............................................. $5,784  
El Pueblo Health Services

**Nancy Ridenour**  
City of Albuquerque .................................................. $133,000  
Health Services Coordination  
City of Albuquerque .................................................. $67,000  
Geriatric Education and Health Maintenance Clinic

**Stephen Van Roper**  
ACE Leadership High School ......................................... $58,319  
The Board of Architecture, Construction, and Engineering Leadership High School  
ABQ Health Partners LLC .............................................. $54,870  
ABQ Health Partners Contract - BAA  
First Nations Community Healthsource, Inc ..................... $52,171  
First Nations Community Healthsource, Inc. Service Agreement

**Jennifer Wagner, PhD**  
*initiated in FY14 and continued in FY15 and part of FY16*

**College of Pharmacy**

**Joe Anderson**  
New Mexico Department of Health .................................. $30,004  
Health Systems Data Management and Use of Team-Based Health Care

**Ludmila Bakhireva**  
NIH/National Institute on Alcohol Abuse and Alcoholism .... $569,811  
Early Indices of Atypical Neurodevelopment with Fetal Alcohol Exposure  
University of California, San Diego  
Organization of Teratology Information Specialists Research Network  
Texas Department of Health ......................................... $24,000  
Texas Office of Prevention of Development Disabilities

**Scott Burchiel**  
NIH/National Institute of Environmental Health Sciences .... $729,080  
Synergistic Immunosuppression by PAHs and Arsenite

**Matthew Campen**  
NIH/National Institute of Environmental Health Sciences .... $362,313  
Enhancement of Coronary Constriction by Volatile Organic Air Toxics  
National Institutes of Health ....................................... $75,500  
Chronic Particulate Matter Exposure, Inflammation and Atherogenesis in At-Risk Children  
University of Washington .......................................... $39,405  
Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions  
University of Washington .......................................... $39,405  
Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions

**Catherine Cone**  
Sandia Staffing Alliance ............................................. $26,641  
Sandia National Laboratories Clinic - BAA

**Eszter Erdei**  
Black Hills Center for American Indian Health ................. $111,167  
Complex Metal Exposure and Immune Status on the Cheyenne River

**Larry Georgopoulos**  
New Mexico Heart Institute ......................................... $250,000  
Radiopharmaceutical Goods and Services  
UNM Medical Group .................................................. $100,000  
Molina Telephonic MTM Agreement
LARRY GEORGOPOULOS (CONTINUED)
ABQ Health Partners LLC ............................................ $90,000
ABQ Health Partners - Radiopharmaceutical Products
Cardiac Care Consultants of New Mexico ............................................ $90,000
Professional Services Agreement - Cardiac Care Consultants
First Choice Community Healthcare ............................................ $81,060
Pharmacist Consultant Agreement - BAA
Translational Radiopharmacy ........................................ $60,000
Preparation of 90Y-SirSpheres
New Mexico Health Connections .................................... $18,000
New Mexico Health Connections Contract Review and Consultation
First Nations Community Healthsource, Inc............................ $2,500
First Nations Community Healthsource
PAMELA HALL
NIH/National Institute of Allergy and Infectious Diseases ........... $397,470
Apolipoprotein B and Control of S. Aureus Quorum Sensing
NIH/National Institute of Allergy and Infectious Diseases ........... $226,500
VLP-Based Vaccines for Targeting Staphylococcus aureus-Secreted Virulence Factors
Sandia National Laboratories ........................................ $45,300
Optimization of Mesoporous Silica Nanoparticle-Supported Lipid Bilayers (‘Protocells’) for In Vivo Delivery of Antibiotic Compounds
AJNA HAMIDOVIC
NIH/National Institutes of Health ........................................ $75,500
Intranasal Insulin Treatment for Weight Management During Smoking Cessation
LAURIE HUDSON
NIH/National Institutes of Health ........................................ $386,049
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins
NIH/National Institutes of Health ........................................ $313,325
Zinc Chemoprevention of Arsenic Co-Carcinogenesis
JOHNNYE LEWIS
HHS/Centers for Disease Control and Prevention .................. $1,000,000
ACA-A Prospective Birth Cohort Study Involving Uranium Exposure in the Navajo Nation
HHS/Centers for Disease Control and Prevention .................. $360,000
Navajo Birth Cohort Study (Mother/Infant Supplement)
National Institutes of Health ........................................ $156,241
Wood Stove Interventions and Child Respiratory Infections in Rural Communities

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

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

PAVAN MUTTIL
Sandia National Laboratories ........................................ $100,000
NATV DTRA

JEFFREY NORENBERG
invICRO ......................................................... $61,856
Task 31: PK/Biodistribution Study
invICRO ......................................................... $29,000
Task 32: Plasma Pharmacokinetic Testing Study

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

SABRINA SAMUDIO-RUIZ
NIH/National Cancer Institute ........................................ $129,216
EGF Receptor, DNA Methylation and Platinum Resistance in Ovarian Cancer

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

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

MARY WALKER
American Heart Association ........................................ $140,000
Cytochrome P4501A1 and Endothelial Dysfunction

CARLA WALRAVEN
Durata Therapeutics, Inc ............................................. $7,500
Acute Bacterial Skin and Skin Practice Pattern Assessment Project - Site 102
Durata Therapeutics, Inc ............................................. $7,500
Acute Bacterial Skin and Skin Practice Pattern Assessment Project - Site 102
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<td><strong>Traci White</strong></td>
<td>Mesilla Valley Hospice</td>
<td>$35,152</td>
<td>Mesilla Valley Hospice Pharmacists Clinician Agreement</td>
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<td>SNL Isotope Request - PRN Services</td>
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<td><strong>Susan Smolinske</strong></td>
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<td><strong>David Pitcher</strong></td>
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<td>$1,125,355</td>
<td>Sustain Level I Trauma Center Designation &amp; Improve Financial Viability of Trauma Services</td>
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<td>New Mexico Department of Health $1,125,355 Sustain Level I Trauma Center Designation &amp; Improve Financial Viability of Trauma Services</td>
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<td>Locum Tenens Services for Turquoise Lodge Hospital</td>
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<td><strong>Eugene Koshkin</strong></td>
<td>Boston Scientific Corporation</td>
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<td><strong>Natalie Adolphi</strong></td>
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<td>Biodistribution of Mesoporous Silica Nanoparticle-Supported Lipid Bilayer Platform</td>
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<td>$10,117</td>
<td>Role of Cytokines and APOL-1 in the Pathogenesis of Childhood HIV Associated Nephropathy</td>
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<td>American Heart Association</td>
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<td>mTORC1 and Autophagy in Human Brown Adipocytes</td>
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<td>The Role of DsbA-L in Regulating Liver Mitochondria Function and Insulin Sensitivity</td>
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<td><strong>Kristina Trujillo</strong></td>
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<td>Is Tumor-Adjacent Histologically Normal Tissue Primed for Tumorigenesis Through the TGF(beta) Pathway?</td>
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<td>Development of Exosomes from Field-Cancerized Fibroblasts as a Cancer Therapeutic</td>
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<td><strong>Claude Shuttleworth</strong></td>
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<td>$123,965</td>
<td>ACA-Pathways to Partnership: Communication and Collaboration Skills for Creating PCORI Teams</td>
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<td><strong>Robert Thoma</strong></td>
<td>New Mexico Governor’s Commission on Disability</td>
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<td>Brain Injury Study on the Veteran Population of New Mexico</td>
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<td>Vascular Mechanisms of Oxidative Stress and Insulin Regulation in Metabolic Syndrome</td>
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<td>Exploration of Potential Neuroprotective Effects of Ketamine in Rodents Exposed to Organophosphates</td>
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**Andre Moezzi**
Cancer Research and Treatment Center

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Carolyn Muller**
NRG Oncology ........................................................... $312,773
NRG (NSABP, RTOG, GOG) (Non-Federal Part)
Laura Nervi
Consulate of Mexico in Albuquerque ............................................ $36,000
Ventanilla de Salud Program
Consulate of Mexico in Albuquerque ............................................ $4,000
Ventanilla de Salud Program

Scott Ness
NIH/National Cancer Institute .................................................. $584,002
Alternative RNA Splicing and Protein Products in Leukemia Outcome (PQ11)
NIH/National Institute of Dental and Craniofacial Research .................... $442,617
Mutation and Target Genes in Adenoid Cystic Carcinoma
NIH/National Institute of Dental and Craniofacial Research .................... $163,350
Mutations and Target Genes in Adenoid Cystic Carcinoma
(Administrative Supplement)
NIH/National Institute of Dental and Craniofacial Research .................... $55,342
Mutations and Target Genes in Adenoid Cystic Carcinoma
(Administrative Supplement)

Janet Oliver
NIH/National Cancer Institute .................................................. $351,785
Integrative Cancer Nanoscience and Microsystems Training Center

Michelle Ozun
American Cancer Society .......................................................... $300,000
Institutional Research Grant

Renata Pasqualini
Arrowhead Research Corporation .................................................. $160,000
Skeletal Muscle-Targeting Peptides
NIH/National Eye Institute .......................................................... $65,318
Targeted Modulation of Angiogenesis by VEGF Peptidomimetic Antagonists
National Institutes of Health ......................................................... $56,475
Optical Systems for In-Vivo Molecular Imaging of Cancer
American Association for Cancer Research ........................................ $24,380
Octreotide-Targeted Treatment of Neuroendocrine Tumors of the Pancreas

Eric Prossnitz
NIH/National Institute of General Medical Sciences ........................ $631,245
New Mexico IDEA Networks of Biomedical Research Excellence
NIH/National Institute of General Medical Sciences ........................ $52,850
New Mexico IDEA Networks of Biomedical Research Excellence

Oliver Rixe
Brigham and Women's Hospital .................................................... $80,400
Brigham and Women's (Alliance for Clinical Trials in Oncology) - Federal
Brigham and Women's Hospital .................................................... $64,000
Brigham and Women's (Alliance for Clinical Trials in Oncology) - Non-Federal

Melanie Royce
NIH/National Cancer Institute ..................................................... $1,383,575
Minority-Based Community Clinical Oncology Program
New Mexico Cancer Care Alliance .................................................. $110,555
Clinical Trial Subaward - Phase 2
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Clinical Trial Agreement - Phase 2
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Clinical Trial Agreement - Phase 2
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Clinical Trial Agreement - Phase 2
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Clinical Trial Agreement - Phase 2
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Clinical Trial Agreement - Phase 2
New Mexico Cancer Care Alliance .................................................. $80,374
Clinical Trial Agreement - Phase 2

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

Larry Sklar
NIH/National Cancer Institute ..................................................... $230,094
Novel DNA Double Strand Break Repair Targeting Therapeutics for Cancer Treatment
NIH/National Institute of General Medical Sciences ........................ $280,000
Roles of DNA Ligase 1 in Mammalian DNA Metabolism
NIH/National Institute of General Medical Sciences ........................ $238,580
Cellular Functions of Eukaryotic DNA Ligases
Lawrence Berkeley National Laboratory .......................................... $86,807
Structural Cell Biology of DNA Repair Machines Project
NIH/National Institute on Aging ..................................................... $29,000
Fifth US-EU Conference on Repair of Endogenous DNA Damage

Cheryl Willman
NIH/National Cancer Institute ..................................................... $1,876,818
UNM Cancer Center Support Grant
Memorial Medical Center .......................................................... $1,356,618
Professional Services
NIH/National Cancer Institute ..................................................... $575,377
Molecular Signatures for Outcome Prediction & Therapeutic Targeting in ALL
NIH/National Cancer Institute ..................................................... $559,590
Molecular Signatures for Outcome Prediction & Therapeutic Targeting in ALL
NIH/National Cancer Institute ..................................................... $322,235
Peptide-Directed Protocols and Virus-like Particles: New Nanoparticle Platforms for Targeted Cellular Delivery of Multicomponent Cargos
New York University ................................................................. $211,307
Targeted Nanotherapeutics for Acute Lymphoblastic Leukemia Therapy
Cheryl Willman (continued)

NIH/National Cancer Institute ........................................ $125,000
UNM Cancer Center Support - Community Outreach Capacity Through Community Health Education of National Outreach Network (Supplement #3)

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

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

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

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

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

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

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

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

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

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

Bridget Wilson

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

Cell Biology and Physiology

Osacar Bizzozero

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

Laura Gonzalez Bosc

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

Helen Hathaway

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

Nikki Jernigan

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

Nancy Kanagy

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

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

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

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

Eric Prossnitz

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

Thomas Resta

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

Benjamin Walker

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

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

Center for Infectious Disease and Immunity

Julie Lovchik

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

Michelle Ozbun

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

Terry Wu

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

Sandia National Laboratories .......................................... $43,671
Mesoporous Nanoparticle Biodistribution and Efficacy Studies

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

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

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

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

Continuing Medical Education

William Rayburn

Sunovion Pharmaceuticals Inc. .......................................... $178,900
PeerView inReview: Conversation from Polytherapy to Monotherapy and its Viability in the Partial Onset Seizure Setting
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LAURA BANKS (CONTINUED)
New Mexico Crime Victims Reparation Commission ........................ $75,000
Coordination of Domestic Violence Death Review Team

New Mexico Department of Health ........................................ $71,740
Hospital and Health Systems Preparedness Project Addendum

New Mexico Department of Homeland Security & Emergency Management ........................................ $33,750
UNM Multi-Hazard Mitigation Planning

New Mexico Department of Health ........................................ $21,000
Hospital and Health Systems Preparedness Project

National Association of County and City Health Officials ........................................ $15,000
Medical Reserve Corps Volunteer Challenge Award 2014-15

National Association of County and City Health Officials ........................................ $3,500
Medical Reserve Corps Volunteer Capacity Building Award 2014-15

DARREN BRAUDE
DOD/Department of the Air Force ........................................ $345,457
UNM Educational Services Agreement (Mod 1)

DOD/Department of the Air Force ........................................ $345,457
UNM Educational Services Agreement (Mod 2)

DOD/Kirtland Air Force Base ........................................ $298,152
UNM Educational Services Agreement

DOD/Kirtland Air Force Base ........................................ $298,152
UNM Educational Services Agreement

DOD/Kirtland Air Force Base ........................................ $236,037
UNM Educational Services Agreement

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

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

City of Albuquerque ....................................................... $60,000
Medical Directorship

DOD/Kirtland Air Force Base ........................................ $27,670
UNM Educational Services Agreement

DOD/Kirtland Air Force Base ........................................ $24,063
UNM Educational Services Agreement

City of Albuquerque ....................................................... $19,056
Paramedic Training Program

City of Albuquerque ....................................................... $18,609
Medical Directorship

Torrance County ......................................................... $12,000
Medical Director Services

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

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

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

CAMERON CRANDALL
Boehringer Ingelheim Pharmaceuticals, Inc ................................ $229,543
Clinical Trial - Phase 3

PPD Development ......................................................... $132,917
Clinical Trial Agreement - Phase 3 Supplement

Shire Human Genetic Therapies, Inc .................................... $50,400
Clinical Trial Agreement - Phase 3 Supplement

 Centers for Disease Control and Prevention ........................ $30,000
IPA-Lynne Fullerton

JOY CROOK
U.S. Drug Enforcement Agency ........................................ $4,000
DEA Training

ANDREW HARRELL
New Mexico Department of Homeland Security & Emergency Management ........................................ $43,332
USAR Task Force Medical Direction

U.S. National Park Service ................................................ $24,000
Grand Canyon National Park - EMS Medical Services

U.S. Forest Service ......................................................... $3,125
Wilderness First Aid

STEVEN McLAUGHLIN
New Mexico State Fair ..................................................... $49,185
Emergency Medical Services - BAA

New Mexico Public Safety Department ................................ $48,000
Medical Direction - BAA

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

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

Bernalillo County ......................................................... $22,370
EMS Refresher Course

New Mexico Donor Services ............................................. $19,777
Medical Director Services

DCI Donor Services ....................................................... $11,537
Professional Services - BAA

Wilderness Medics Inc ................................................... $10,000
Medical Director Services

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

City of Rio Rancho ......................................................... $4,000
Professional Services

Carlsbad Caverns National Park ........................................ $2,400
Emergency Medicine - Medical Director
**BRIAN MOORE**  
New Mexico Department of Health ........................................... $50,000  
Statewide Emergency Medical Services Medical Direction Project

New Mexico Department of Health ........................................... $5,000  
Statewide Emergency Medical Services Medical Direction Project

**ROBERT PERRY**  
New Mexico Department of Health ........................................... $12,750  
Healthcare Preparedness Program

New Mexico Department of Health ........................................... $10,750  
Healthcare Preparedness Program - Behavioral Health

New Mexico Department of Health ........................................... $10,750  
Healthcare Preparedness Program - Carrie Tingley

**MICHAEL RICHARDS**  
New Mexico Department of Health ........................................... $4,550  
Rural Trauma Team Development Course Project

**ROBERT SAPIN**  
HHS/Health Resources and Services Administration ................... $128,933  
EMS for Children State Partnership Grant

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

New Mexico Department of Health ........................................... $10,000  
NM Child Fatality Review

**PHILIP SEIDENBERG**  
Siemens Healthcare Diagnostics, Inc. .................................... $441,730  
Clinical Trial Agreement - Phase 4

Siemens Healthcare Diagnostics, Inc. .................................... $216,320  
Clinical Trial Agreement - Phase 4 Supplement

**STEVEN SEIFERT**  
American College of Medical Toxicology .................................. $5,000  
Participation in Toxic Patient Registry: Snakebite Registry

**FAMILY AND COMMUNITY MEDICINE**

**WILLIAM ATHAS**  
New Mexico Department of Health ........................................... $30,000  
Geospatial Capacity Building

New Mexico Department of Health ........................................... $30,000  
Geospatial Capacity Building

**SALLY BACHOFER**  
HHS/Health Resources and Services Administration .................. $234,962  
ACA-Residency Training in Primary Care (FY 15)

**ANTOINETTE BENTON**  
New Mexico Department of Health ........................................... $472,113  
Transdisciplinary Evaluation and Support Clinic

New Mexico Department of Health ........................................... $444,843  
Transdisciplinary Evaluation and Support Clinic

New Mexico Human Services Department ................................ $169,400  
Pre-Admission Screening and Resident Review (FY 15)

New Mexico Human Services Department ................................ $50,050  
Pre-Admission Screening and Resident Review (Supplement FY 16)

New Mexico Human Services Department ................................ $50,050  
Pre-Admission Screening and Resident Review Supplement (FY 15)

**LISA CACARI-STONE**  
Con Alma Health Foundation .................................................... $74,000  
ACA-Policy Implementation Study

**DEBORAH HELITZER**  
University of Texas Health Science Center at Tyler .................... $88,197  
Evaluation Core of the Southwest Center for Agricultural Health, Injury Prevention and Education

**JENNIFER HETTEN**  
NIH/National Institute on Alcohol Abuse and Alcoholism ............... $156,198  
Mentored Research on Improving Alcohol Brief Interventions in Medical Settings

National Institutes of Health .................................................. $149,757  
Mentored Research on Improving Alcohol Brief Interventions in Medical Settings

National Institutes of Health .................................................. $143,846  
Drug Abuse and HIV Adherence Treatments: A Multi-Level, Comparative Meta Analysis

National Institutes of Health .................................................. $75,500  
Meta-Regression to Identify the Impact of SBIRT Structure and Content on Outcome

National Institutes of Health .................................................. $47,143  
Mentored Research on Improving Alcohol Brief Interventions in Medical Settings

National Institutes of Health .................................................. $7,571  
Drug Abuse and HIV Adherence Treatments: A Multi-level, Comparative Meta-Analysis

**LAUREN HUND**  
NIH/National Institute of Allergy and Infectious Diseases ............... $33,000  
Accurate and Efficient Measures for HIV Incidence

**MIRIA KANO**  
Colorado Foundation for Public Health and the Environment ............ $24,771  
ACA-Building the New Mexico LGBTQ Health Improvement Network: Strengthening Community Health

**ARTHUR KAUFMAN**  
New Mexico Department of Health ........................................... $426,985  
New Mexico Immunization Coalition

Blue Cross Blue Shield of New Mexico ..................................... $224,564  
Care NM Services

HHS/Health Resources and Services Administration ..................... $192,406  
New Mexico Community Health Workers Paraprofessional Training

W.K. Kellogg Foundation ....................................................... $50,000  
Beyond Flexner 2015: Social Mission in Medical Education
SARAH LATHROP
New Mexico Department of Health ........................................ $1,148,361
ACA-New Mexico Emerging Infections Program

LAWRENCE LEEMAN
Anonymous Non-Profit Foundation ........................................ $23,920
Early Training Grant

JOHN LEGGOTT
HHS/Health Resources and Services Administration ............. $130,000
Physician Assistant In Primary Care (FY 15)

MARTHA COLE MCGREW
UNM Medical Group ......................................................... $126,637
Center for Reproductive Health Memorandum of Agreement
Bernalillo County Juvenile Detention Center ......................... $105,195
Professional Physician Services
New Mexico Corrections Department ................................. $60,000
Professional Physician Services
First Choice Community Healthcare ................................. $54,080
First Choice Community Healthcare
Central New Mexico Community College ............................ $39,340
Professional Services
Presbyterian Healthcare Services ....................................... $25,200
Professional Services

JANET PAGE-REEVES
Bernalillo County ............................................................ $20,600
Office of Substance Abuse Prevention Bernalillo County Program Evaluation

TASSY PARKER
Molina Healthcare of New Mexico ....................................... $65,000
Enhancing Molina Healthcare Services for American Indians in New Mexico
Albuquerque Area Indian Health Board, Inc ......................... $52,620
Tribal Solutions
Albuquerque Area Indian Health Board, Inc ......................... $41,945
Tribal Solutions Grant (NARCH)
National Institutes of Health ............................................. $18,782
Healthy Children, Strong Families: American Indian Communities Preventing Obesity

REBECCA RAE
Santa Clara Pueblo .......................................................... $150,000
Khapoo Owinge RezRiders Project

ROBERT RHYNE JR.
HHS/Agency for Healthcare Research and Development ........ $291,241
Health Extension Rural Office: Translating Research Into Localities

VALERIE ROMERO-LEGGOTT
HHS/Health Resources and Services Administration ............ $730,111
Health Career Opportunity Program
Association of Public and Land-grant Universities ............... $5,000
Shark Tank Pipeline

HELENE SILVERBLATT
HHS/Health Resources and Services Administration ............ $306,000
ACA-New Mexico Area Health Education Centers

GREG TAFOYA
National Congress of American Indians ............................. $95,672
NARCH VII NCAI with UNM: CBPR Dissemination

KRISTINE TOLLESTRUP
HHS/Health Resources and Services Administration ............ $176,138
New Mexico MCH Public Health Training Institute
HHS/Health Resources and Services Administration ............ $101,013
New Mexico Public Health Traineeships in Epidemiology
Tulane University .......................................................... $92,876
ACA-Region 6 Public Health Training Center

NINA WALLERSTEIN
National Institutes of Health ............................................. $584,115
Family Listening Project: Multi-Tribal Implementation and Evaluation
Healthy Native Communities Partnership, Inc ....................... $18,100
Participatory Evaluation Design for the Multi-Sector Leadership Program

ROBERT WILLIAMS
National Institutes of Health ............................................. $373,725
Stereotyping in Medical Student Decision-Making: Presence, Origins and Solutions
National Institutes of Health ............................................. $151,332
Implementing Personal Health Records to Promote Evidence-based Cancer Screening

Internal Medicine

ALLEN ADOLPHE
AbbVie .............................................................................. $782,285
Clinical Trial Agreement - Phase 3 Supplement

RANA AL-SADI
Crohn’s & Colitis Foundation of America ............................. $90,000
MMP-9 Modulates Intestinal epithelial Tight Junction Barrier and Intestinal Inflammation (Year 1 - FY 16)

CHRISTOS ARGYROPOULOS
Dialysis Clinic, Inc ............................................................ $625,000
Geosurveillance of the Chronic Kidney Disease Epidemic in the US
Dialysis Clinic, Inc ............................................................ $90,000
A Community-Based Study of the Epidemiology of Chronic Kidney Disease in Rural New Mexico

SANJEEV ARORA
Merck & Company, Inc ...................................................... $692,253
Clinical Trial Agreement - Phase 3
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Martha Martinez-Grimes, PhD
POPE MOSELEY
Albuquerque Area Indian Health Service ........................................... $87,488
IHS Specialty Services
University of Copenhagen ............................................................ $42,090
Professional Services Agreement
Zenith Administrators .................................................................. $25,000
Outpatient Professional Services
Zenith Administrators .................................................................. $25,000
Outpatient Professional Services - BAA
QTC Medical Group ...................................................................... $10,750
Second Medical Opinion Evaluations

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

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

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

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

National Institutes of Health .......................................................... $94,227
Acute Hepatitis C Infection in Young Injectors
National Institutes of Health .......................................................... $39,492
CPII: Cambodia Integrated HIV and Drug Prevention Implementation Program
National Institutes of Health .......................................................... $29,321
CPII: Cambodia Integrated HIV and Drug Prevention Implementation Program
National Institutes of Health .......................................................... $990
Inc3: International Collaborative of Prospective Studies of HIV and Hepatitis in IDU (Supplement)

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

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

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

Mark Sheldon
GlaxoSmithKline LLC .................................................................. $98,865
Clinical Trial Agreement - Phase 3

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

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

Mark Unruh
Anonymous Non-Profit Foundation .............................................. $1,181,620
Medical Directorship and QA
Baystate Medical Center .............................................................. $214,607
ACA-Shared Decision Making and Renal Supportive Care
Dialysis Clinic, Inc. ....................................................................... $184,574
DCI Biostatistician
Dialysis Clinic, Inc. ................................................. $178,945
Quality of Life Indicators Among Patients with Chronic Kidney Disease

Dialysis Clinic, Inc. ................................................. $168,814
Acute Kidney Injury Outcomes

Dialysis Clinic, Inc. ................................................. $139,410
Provider Knowledge, Attitude and Practices Surrounding Conservative Management for Chronic Kidney Disease: A Survey Study

Dialysis Clinic, Inc. ................................................. $133,926
Clinical Trial Agreement - Phase 2

Dialysis Clinic, Inc. ................................................. $127,224
Predicting CKD in an Underserved Population

University of Washington ............................................ $96,739
ACA-Treatment Options for Depression in Patients Undergoing Hemodialysis

Anonymous Non-Profit Foundation .................................. $54,240
Medical Directorship and QA - Travel

Anonymous Non-Profit Foundation .................................. $54,240
Medical Directorship and QA - Travel

Dialysis Clinic, Inc. .................................................... $5,155
Equipment for Kidneys Research

HEATHER WARD
National Institutes of Health ....................................... $113,015
Targeting Fibrosis in Polycystic Kidney Disease

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

BRUCE WILLIAMS
HHS/Health Resources and Services Administration ................ $694,866
Comprehensive HIV Early Intervention Services/ Ryan White Part C Outpatient EIS Program

HHS/Health Resources and Services Administration ................ $472,628
Coordinated Services and Access to Research for Women, Infants, Children & Youth

New Mexico Department of Health ................................ $316,500
HIV Services Provider Program - BAA

HHS/Health Resources and Services Administration ............... $38,000
Comprehensive HIV Early Intervention Services/ Ryan White Part C Outpatient EIS Program

Molecular Genetics and Microbiology

ELLEN BESWICK
NIH/National Institute of Diabetes and Digestive and Kidney Diseases .............................................. $27,000
Alteration in CD90+ Stromal Cells in TH1/TH17 Regulation in Crohn’s Disease

KIRAN BHASKAR
NIH/National Institute of Neurological Disorders and Stroke .................................................. $330,313
The Role of Inflammasome Signaling in Tauopathies

JUDY CANNON
NIH/National Institute of Allergy and Infectious Diseases ............................................. $377,500
The Role of PKCTheta in T-Cell and T-ALL Migration

VOJO DERETIC
NIH/National Institute of Allergy and Infectious Diseases ............................................ $656,042
Autophagy Against Tuberculosis and HIV

NIH/National Institute of Allergy and Infectious Diseases ............................................ $399,999
Pattern Recognition Receptors and Autophagy in Mtb Control in AIDS

National Institutes of Health ........................................ $25,937
TLR4 Evasion, Bacterial Persistence and Chronic Inflammation

NIH/National Institute of Allergy and Infectious Diseases ............................................. $25,937
Pattern Recognition Receptors and Autophagy in Mtb Control in AIDS

MARY ANN OSLEY
NIH/National Institute of General Medical Sciences ............................................. $347,363
Genetic Analysis of H2B Ubiquitylation in Yeast

NIH/National Institute of General Medical Sciences ............................................. $343,039
Genetic Analysis of H2B Ubiquitylation in Yeast

MICHELLE OZBUN
NIH/National Institute of Dental and Craniofacial Research ................................ $226,500
Targeted Therapy for EGFR Pathway in HPV + HNSCCs

University of Pittsburgh ................................................ $90,909
Genetic Alterations of PIK3CA Identify Actionable Targets for HPV-Associated Head and Neck Cancer

NIH/National Cancer Institute ........................................ $33,885
Regulation of Human Papillomavirus Replication via Cell-Signaling Pathways

National Institutes of Health ........................................ $444
Regulation of Human Papillomavirus Replication Via Cell-Signaling Pathways

DAVID PEABODY
AgilVax, Inc. ................................................................ $62,500
Affinity Selection on Antiviral mAB Targets

XUEXIAN YANG
NIH/National Institute of Allergy and Infectious Diseases ............................................. $364,750
Regulation of T Helper Cell Effector Function

Neurology

CHRISTOPHER STEWART CALDER
GBS/CIDP Foundation International ................................................. $8,000
Clinical Trial Agreement - Phase 3

BRUCE FISCH
SAGE Therapeutics ........................................................ $28,750
Clinical Trial Agreement - Phase 3

COREY FORD
Novartis ................................................................ $96,593
Clinical Trial Agreement - Phase 3

Teva Pharmaceutical Industries ............................................ $35,560
Clinical Trial Agreement - Phase 4

University of California, San Francisco ................................................................ $10,487
Treatment of Multiple Sclerosis with Siponimod Clinical Trial Phase 3 - Subaward
### Molly Newville
- National Institutes of Health .................................................. $2,058
  - Insulin Resistance Intervention after Stroke Trial

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

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

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

### John Phillips
- The Mind Research Network .................................................. $100,745
  - MRN Medical Director

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

### Stefan Posse
- Rigshospitalet ........................................................................... $19,636
  - Visiting Research Scientist Summer 2014

- University of Copenhagen .................................................. $17,371
  - Visiting Research Scientist February 2015 - April 2015

- National Institutes of Health .................................................. $3,127
  - Magnetic Resonance Spectroscopy of Breast Cancer Using Model-Based Localization

### Gary Rosenberg
- NIH/National Institute of Neurological Disorders and Stroke ....... $546,112
  - Bio-Markers for White Matter Injury in Mixed and Vascular Cognitive Impairment

- NIH/National Institute of Neurological Disorders and Stroke ....... $327,009
  - White Matter Hypoxia in Novel Model of MMP - Mediated Inflammation SHR/SP

- The Mind Research Network .................................................. $142,399
  - MRN Administrative Operations

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

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

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

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

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

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

### Nora Perrone-Bizzozero
- NIH/National Institute on Drug Abuse .................................. $404,353
  - Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction

- NIH/National Institute on Drug Abuse .................................. $42,477
  - Competing Roles of MicroRNAs and RNA-Binding Proteins in Drug Addiction - Diversity Supplement - Robert Oliver

- The Mind Research Network .................................................. $41,783
  - Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia

### Daniel Savage
- NIH/National Institute on Alcohol Abuse and Alcoholism ....... $1,618,836
  - Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions

- NIH/National Institute on Alcohol Abuse and Alcoholism ....... $1,528,781
  - Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions

- NIH/National Institute on Alcohol Abuse and Alcoholism ....... $307,647
  - Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission

### Carlos Valenzuela
- NIH/National Institute on Alcohol Abuse and Alcoholism ....... $325,529
  - Alcohol and Cerebellar Circuits

- NIH/National Institute on Alcohol Abuse and Alcoholism ....... $144,369
  - Alcohol Research Training in Neuroscience
### Neurosurgery

**J Fred Harrington**  
K2M, Inc. ......................................................... $152,128  
Clinical Trial Agreement - Phase 4

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

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

**Rex Jung**  
Johnson O’Connor Research Foundation ......................................................... $13,750  
Animal Studies on Repetitive Mild TBI (KB Invitor Sept 2014)

**Rex Jung**  
Johnson O’Connor Research Foundation ......................................................... $13,006  
Effect of POEMS on cGMP Response During OGD

**Rex Jung**  
Johnson O’Connor Research Foundation ......................................................... $9,388  
PEMF and Microperfusion in TBI, Stroke and Neuroinflammatory Animal Models  
- Supplement

**Rex Jung**  
Johnson O’Connor Research Foundation ......................................................... $8,250  
PEMF and Microperfusion in TBI, Stroke and Neuroinflammatory Animal Models  
- Supplement

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

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

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

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

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

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

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

**New Mexico Tumor Registry**

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

**New Mexico Governor’s Commission on Disability** .......................................................... $28,121  
TOREP- SEER RRSS #14-3 Patterns of Care

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

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

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

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

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

### Obstetrics and Gynecology

**Kate Austin**  
New Mexico Department of Health .......................................................... $140,000  
Prenatal Medical Services Project

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

**Gena Dunivan**  
Pelvalon .......................................................... $2,000  
Clinical Trial Agreement - Phase 4

**Eve Espey**  
Anonymous Non-Profit Foundation .......................................................... $359,886  
Fellowship in Family Planning

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

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

**The University of Utah** .......................................................... $25,164  
BLIS: Breastfeeding Levonorgestrel Study

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Dennis Dominguez
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Sandra Heimerl
HHS/Health Resources and Services Administration ................ $670,480
New Mexico Leadership Education in Neurodevelopmental Disabilities

Carmen Herrera
The Weil Foundation ................................................ $15,000
UNM Pediatric Integrative Medicine in Residency Program

Lauren Jantzie
Boston Children’s Hospital ........................................... $60,219
Mechanisms of Neonatal Erythropoietin Neuroprotection

Alberta Kong
Fluor Federal Solutions, LLC ........................................... $77,376
Medical Services at Albuquerque Job Corps - BAA

Jane McGrath
New Mexico Human Services Department ......................... $1,100,000
Envision New Mexico: The Initiative for Child Healthcare Quality
New Mexico Human Services Department ......................... $259,817
School-Based Health Center Behavioral Health Quality Improvement (FY 15)
New Mexico Department of Health ................................ $193,600
Race to the Top Early Learning Challenge
W.K. Kellogg Foundation ............................................. $125,000
Systems of Support for Breastfeeding in Selected NM Communities
New Mexico Department of Health ................................ $122,857
School-Based Health Center Health Provision in the Schools (FY 15 Supplement)
New Mexico Department of Health ................................ $60,000
Envision New Mexico - Newborn Hearing Screening Program Quality Improvement Project
New Mexico Department of Health ................................ $58,000
Albuquerque School-Based Health
New Mexico Department of Health ................................ $54,596
Analysis of Childhood Obesity Project (FY 15)
New Mexico Public Education Department ....................... $50,000
GRADS FY 15
New Mexico Department of Health ................................ $43,999
Envision Quality Improvement Project
New Mexico Department of Health ................................ $40,000
Envision New Mexico - Newborn Hearing Screening Program Quality Improvement Project
Molina Healthcare of New Mexico ................................. $20,000
Molina’s Envision Quality Improvement Project
State of Colorado Department of Health Care Policy and Financing ... $16,000
School-Based Health Center Data Analysis
New Mexico Department of Health ................................. $15,825
Cuidate Curriculum Project FY 15
New Mexico Department of Health ................................ $11,994
Envision SBHC
New Mexico Department of Health ................................ $10,800
Albuquerque School-Based Health
Apex Education ....................................................... $9,500
STD Screening and Assessment Tools for an Adolescent Population (Yr 1)

Susan Miller
Bernalillo County ....................................................... $4,999
UNM NM-CAPP Child Abuse Prevention

Marcia Moriarta
New Mexico Children, Youth and Families Department .......... $215,471
Early Childhood Infrastructure Development (FY 15)
New Mexico Children, Youth and Families Department .......... $93,000
Infant-Parent Psychotherapy (FY 15) - BAA
Utah State University ................................................ $45,492
Indian Children's Program - Withdrawn
New Mexico Children, Youth and Families Department .......... $20,000
Infant-Parent Psychotherapy (FY 15 Supplement) - BAA
New Mexico Children, Youth and Families Department .......... $5,000
Infant Mental Health Community of Practice
New Mexico Children, Youth and Families Department .......... $5,000
Infant Mental Health Community of Practice

Robin Ohls
National Institutes of Health ....................................... $64,930
Preterm Epo Neuroprotection Trial
CureDM Group Holdings, LLC ....................................... $3,000
Developmental of Human Fetal Pancreatic Cell Assays

Renee Rita Ornelas
New Mexico Department of Health ................................ $391,800
Para Los Niños Program
New Mexico Crime Victims Reparation Commission ............. $23,450
Adolescent Continuity Clinic for Education on Self Safety

Linda Parham
University of Southern California .................................. $17,556
Development of Teaching Materials in Support of Sensory Integration and Praxis Test
University of Southern California .................................. $11,705
Development of Teaching Materials in Support of Sensory Integration and Praxis Test

Janet Poole
Patient-Centered Outcomes Research Institute ................. $1,771,785
ACA-Taking Charge of Systemic Sclerosis: Improving Patient Outcomes Through Self-Assessment

Hengameh Raissy
National Jewish Health ................................................ $118,040
STICS - AsthmaNet - Clinical Trial Agreement - Phase 4
Vertex Pharmaceuticals Incorporated ............................ $26,908
Clinical Trial Agreement - Phase 3

Frank Martinez and Yoselin Ordenez
HENGAMEH RAISSY (CONTINUED)
Oregon Research Institute .................................................. $13,142
Adaptation and Evaluation of a Family-Based Mindful Eating Intervention for Overweight Adolescents

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

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

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

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

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

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

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

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

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

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

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

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

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

Pediatrics Center for Development & Disability

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MARIA MORALES
New Mexico Department of Health ................................... $3,116,000
Autism Programs - BAA

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

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

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

HHS/Administration for Community Living ...................... $545,919
University Center for Excellence in Development Disabilities Education
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- ESHE Evaluation

### Psychiatry and Behavioral Sciences

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

### Cheryl Aine
- The Mind Research Network ....................................................... $81,754
- MDA-Aine-Multimodal Imaging of Neuropsychiatric Disorders:
  - Mechanisms & Biomarkers (COBRE II)
- The Mind Research Network ....................................................... $55,222
- ADA-Aine-Multimodal Imaging of Neuropsychiatric Disorders:
  - Mechanisms & Biomarkers (COBRE II)

### Deborah Altschul
- W.K. Kellogg Foundation ......................................................... $403,487
- New Mexico Learning and Evaluation Consortium
- New Mexico Behavioral Health Collaborative/Human Services Department ................................................. $257,158
- Screening, Brief Intervention and Referral to Treatment - BAA
- New Mexico Children, Youth and Families Department ................................................. $232,333
- CYFD System of Care - BAA
- San Felipe Pueblo ................................................................. $110,337
  - KEYWAH II

### Pamela Arenella
- The Mind Research Network ....................................................... $13,000
- Effectiveness of Varenicline: Testing Individual Differences

### Jerald Belitz
- HHS/Health Resources and Services Administration ....................... $122,099
- Psychology Internship Expansion Grant

### Jeanne Bereiter
- San Felipe Pueblo ................................................................. $69,668
- San Felipe Home Visiting FY 15
- New Mexico Children, Youth and Families Department ....................... $63,100
- Rural Psychiatric Services-Child Fellowship Training
- Anonymous ................................................................. $28,000
  - Home Visiting

### Michael Bogenschutz
- National Institutes of Health ..................................................... $632,425
- Comparing Interventions for Opioid-Dependent Patients Presenting in Medical EDs
  - New Mexico Children, Youth and Families Department ....................... $169,220
  - ASAP Adolescent Addictions - BAA

### Caroline Alberta Bonham
- New Mexico Behavioral Health Collaborative/ New Mexico Human Services Department ....................... $790,377
- Behavioral Health Services (FY 15)
- New Mexico Human Services Department ....................................... $651,843
  - Behavioral Health Services (FY 16)
- Albuquerque Area Indian Health Services ........................................ $359,334
- Albuquerque Area IHS Center for Telehealth Excellence Project FY 15 - BAA
- Hidalgo Medical Services ......................................................... $150,000
- Hidalgo Medical Services, Inc. - Psychiatric Services - BAA
- New Mexico Human Services Department ....................................... $142,348
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- NIH/National Institute on Drug Abuse ........................................... $7,500
  - NIMH Outreach Partnership

### Juan Bustillo
- The Mind Research Network ....................................................... $356,488
- ACAM-Bustillo-Multimodal Imaging of Neuropsychiatric Disorders:
  - Mechanisms & Biomarkers (COBRE II)
- Otsuka Pharmaceutical Development & Commercialization, Inc ..................... $200,000
  - Clinical Trial Agreement - Phase 1
  - University of Texas ......................................................... $137,610
    - Clinical Trial Agreement - Phase 4
  - The Mind Research Network ..................................................... $45,221
    - A Multidimensional Investigation of Cognitive Control Deficits in Psychopathology
  - The Mind Research Network ..................................................... $44,658
    - A Multidimensional Approach for Cognitive Control Deficits in Psychopathology

### Richard Campbell
- Albuquerque Public Schools ....................................................... $101,652
  - Neuropsychiatric Evaluations - BAA

### Annette Susan Crisanti
- OptumHealth New Mexico ......................................................... $37,291
- OptumHealth - Adult Transformation: Healthy Homes
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Datascope Corp. ............................................. $50,000  
*Intra-Aortic Balloon Pump Review & Consultation*

**JOHN RUSSELL**  
New Mexico Donor Services ................................ $30,000  
*Organ Procurement Services*

**ANIL SHETTY**  
New Mexico Department of Health ........................... $3,000  
*CMS Cleft Palate Clinics*

**TIMOTHY WINTER**  
Jae Center for Health Research ............................. $32,371  
*Amblyopia Treatment Study (ATS18)*

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**ANTHONY MASCIOTRA**  
New Mexico Children, Youth and Families Department ........ $179,910  
*Professional Services - BAA*

*Albuquerque Area Indian Health Service ......................... $25,000  
*Provider Services Agreement*

**UNM Sandoval Regional Medical Center**

**KEVIN ROGOLS**  
Sandoval County ........................................... $14,000  
*Sandoval County DWI and Prevention Program*

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**UNIVERSITY OF NEW MEXICO HOSPITAL**

**STEVE MCKERNAN**  
City of Albuquerque ........................................ $713,300  
*Assertive Community Treatment Program - FY 15 - BAA*

*City of Albuquerque ....................................... $183,000  
*Gang Prevention Program - BAA*

*City of Albuquerque ...................................... $161,970  
*Primary Care Program - BAA*

*New Mexico Children, Youth and Families Department ........ $54,000  
*Home Visits and Education*

*Albuquerque Area Indian Health Service .................... $25,000  
*iHS Inpatient Psychiatric Services Agreement*

*Albuquerque Health Services ......................... $25,000  
*Opioid Treatments (Emergency Medicating Agreement)*

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*Behavioral Health Assessment and Treatment for Students*
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