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RESEARCH ANNUAL REPORT 2016

TRANSFORMING RESEARCH FOR HEALTHIER COMMUNITIES
University of New Mexico Health Sciences Center
Vision, Mission and Core Values

Vision
The University of New Mexico Health Sciences Center will work with community partners to help New Mexico make more progress in health and health equity than any other state.

Mission
Our mission is to provide an opportunity for all New Mexicans to obtain an excellent education in the health sciences. We will advance research in the most important areas of human health with a focus on the priority 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.
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Research at the UNM Health Sciences Center takes many forms, from laboratory-based bench science to clinical trials and community-based investigations. This work across the spectrum of societal conditions translates into real benefits for the people we serve.

Taken as a whole, the research mission at the HSC is flourishing. Our scientists continue to make remarkable progress in identifying the causes of disease and exploring new ways to restore health and save lives.

We’re all familiar with how new diagnostic technologies and interventional drugs and therapies can be real game-changes in treating serious conditions. But our research can also be directed toward shaping human behavior in ways that promote health.

This past year saw the launch of the new College of Population Health – the first new college in the health sciences created at UNM in more than 50 years and one of only three such programs in the U.S.

Under founding dean Deborah Helitzer, ScD, the College of Population Health is poised to make tremendous contributions in our ability to conduct population-level research. This will be incredibly valuable for us as an academic health center as we enter a new and uncharted clinical care landscape.

Population health experts will help us craft new strategies for tackling some of the biggest health challenges we face as a society. This will be of particular value for academic health systems like ours, in which we tend to the needs of patients with diverse needs from a broad variety of backgrounds.

I am very proud of the contributions HSC researchers are making to their respective fields. Every day, they bring credit to us as an organization.
At one time or another everyone who works with me has heard me say, “Research means hope.” It’s one of my favorite expressions, because it speaks to what sets the UNM Health Sciences Center apart as an institution and it resonates on so many different levels.

This year, as the HSC research mission reached another extramural funding milestone – $165 million – we have had greater cause for hope than ever before. I’m proud to report that we have seen our research capacity grow year over year for more than a decade in an era when national support for biomedical science has stayed flat or even declined. I take this as evidence that others think we are doing something right.

Hope can take many forms, of course. For example, patients rely on us to develop the drugs and devices that will lead to cures and alleviate their suffering. They hope we will get there sooner, rather than later.

As academicians, we hope that our research will continue to deepen the store of human knowledge and expand the horizons of what is possible for our children and grandchildren. We hope that we can successfully educate the next generation of explorers to continue the work we have begun.

And, at a time when our state finds itself facing financial challenges, we hope that our research will play a part in promoting greater economic development and material well-being for our state’s residents.

That’s why we are redoubling our efforts to continue to grow our research mission and increase our work with private sector partners to bolster New Mexico’s biotechnology infrastructure.

We know we can make a difference.
Our 60th anniversary celebration in 2015 reinvigorated our passion for leadership and innovation in meeting our education, practice and research missions. We have spent much time this year thinking strategically and envisioning what the future holds for our College and profession.

We have focused on promoting wellness with creative initiatives and strategies to helping patients, families and communities manage health challenges. Our current research portfolio includes important work in cancer prevention and screening, pain, respiratory conditions, women’s health, childhood asthma and rural health, along with problems affecting particular populations, such as Native Americans and military veterans.

Judy Liesveld, PhD, RN, is leading several efforts to enhance Native American nursing education and scholarship. One recently funded program places senior-level BSN nursing students in community-based primary care clinical practicums with the Chinle Indian Health Service unit. The grant will also provide an opportunity to study the impacts nurses have on clinical care in rural settings. Liesveld has also secured federal funding from the Indian Health Service American Indians into Nursing program to further enrich the College’s work in Native American health.

College of Nursing faculty lead interdisciplinary teams and contribute to initiatives dedicated to advancing the science of health. Our faculty hold leadership roles in national and international organizations and share the results of their research widely to extend the impact of their work across the state and beyond.

With the work of our faculty and the College’s spirit of collaborative research and service, our efforts continue to bear fruit. We continue to work with colleagues and partners to address New Mexico’s health priorities for many years to come.
The College of Pharmacy’s research enterprise is thriving in an ever-more-competitive funding climate.

Extramural funding for research at the College exceeded $10.2 million this year – a 43 percent increase over last year and an astounding 200 percent increase over the College’s funding just five years ago.

The College is achieving national recognition as a top tier research institution and its standing in national rankings has soared. In its most recent assessment of the nation’s 139 colleges of pharmacy, the American Association of Colleges of Pharmacy ranked the College 21st for prestigious National Institutes of Health funding. Moreover, AACP ranked the college 13th for other federal funding and 28th for total research dollars.

The Center for Native American Environmental Health Equality Research, the College’s first P50 center, received funding this year from both NIH and the Environmental Protection Agency.

Additionally, college researchers are examining the effects of toxic metals from mine waste dust in the Southwest’s land, water and air. They are looking at placental biomarkers in children exposed to alcohol in utero for critical early diagnosis and intervention of adverse neurobehavioral outcomes. They are also investigating the impact of pharmacist-performed tuberculosis testing on improved health outcomes in pharmacies statewide.

College faculty are putting their research into practice to improve public health globally. Researchers at the College hold 23 active U.S. patents and dozens of pending patent applications.

These bold innovations will lead to better outcomes for stroke victims and improved accuracy and less invasive methods for the diagnoses of cancer and other diseases. They will also enable direct delivery of antibiotics to better treat infections and rapid breath-test screening for the early detection and eradication of infectious diseases.
FROM THE DEAN OF THE COLLEGE OF POPULATION HEALTH

The College of Population Health is one of three population health academic institutions in the U.S., dedicated to advancing population health education and research on health disparities, strategies and policies aimed to alleviate underlying social determinants affecting health and improving patient care.

The College houses two education programs, providing a foundation for graduates to bring to the workplace a unique inter-disciplinary perspective and skills to address the complex relationships that affect health outcomes.

- The Master of Public Health works with communities, tribes, public and private sector partners to increase the capacity to respond to public health problems in ways that honor and reflect community culture and values.

- The Bachelor of Science in Population Health, the first of its kind in the nation, incorporates the principles of population health and prepares graduates to promote the health of populations across the continuum.

Our education programs will prepare graduates to enter the workforce with the core knowledge and flexibility to adapt to a rapidly changing landscape in public health, wellness, disease prevention and health care delivery.

Our faculty research portfolio includes work in the areas of health equity, border health, maternal and child health, health policy, health literacy and community-based participatory research.

Faculty members collaborate across UNM departments and colleges, and work closely with the Clinical & Translational Science Center and the Cancer Research & Treatment Center on the Health Sciences Center campus and Robert Wood Johnson Foundation and the Southwest Hispanic Research Institute on central campus.

The Center for Participatory Research works to create new knowledge and translate existing knowledge to improve quality of life among New Mexico's diverse populations.
Scholarship is one of the defining features of academia – and biomedical research plays a unique role in the discovery of new knowledge, translating it from bench to bedside and out into the community.

Without our intense academic focus on research we would not have much of the knowledge and many of the diagnostics and treatments that lead to improved health care. Nor would we understand how to address the social determinants of health and working with communities to improve health on a population level.

Our research mission continues to grow in the face of decreasing research dollars nationally. This is due to both the extraordinary talent of our research scientists and the leadership of Dr. Corey Ford in the School of Medicine and Dr. Richard Larson in the Health Sciences Center.

Some highlights from the past year include a record $165 million in grant funding, with $55 million of that coming from the National Institutes of Health, and $58 million from other federal sources.

In the past year, the UNM Cancer Center received elite “comprehensive” designation from the National Cancer Institute. At the same time, UNM’s Clinical & Translational Science Award was renewed for five years.

The Brain and Behavioral Health Institute won federal funding for a new 7-tesla MRI, a major step forward for animal imaging at UNM that will be invaluable for maintaining the competitiveness of our preclinical brain and behavioral health research programs.

And, the New Mexico Alcohol Research Center won an NIH P50 award for its comprehensive, multidisciplinary program focused on fetal alcohol-related behavioral deficits.

I am proud and honored to work with such committed scientists in our research mission.
How does an organization develop a comprehensive research program to improve brain and behavioral health for all New Mexicans?

UNM’s Brain and Behavioral Health Institute (BBHI) embraces the task by learning to effectively identify community needs and fostering interdisciplinary research teams to do the work.

Researchers often never meet the people whose lives they hope to affect. Three years ago, BBHI broke this tradition when it invited community advocacy groups to events on the UNM Health Sciences Center campus. One was Neuroscience Day, a long-running event spotlighting current research.

BBHI founded and maintains the New Mexico Brain Network, a coalition representing more than 15 neurological conditions, that has already informed priorities for research projects, including the new Center for Brain Recovery and Repair.

Styles, cultures and power differentials can stymie two-way exchanges.

“We’ve been willing to listen, but we couldn’t get people comfortable enough to tell us,” says neurologist Leslie Morrison, MD. “You think you’re communicating effectively. Patients nod their head and seem to understand, but only a few things are communicated or things are miscommunicated.”

The BBHI partnered with the Alan Alda Center for Communicating Science to create a unique approach to address these challenges. Three workshops tested the model to enhance communication so that teams could identify New Mexicans’ priorities and align them with UNM’s research capacity. The pilot initiatives worked.

“The involvement of community members, researchers and physicians has been remarkably helpful in establishing effective relationships and exposing us all to skills that improve our ability to communicate with each other – across our various disciplines – and successfully plan a project,” says Gary Giron, executive director of the New Mexico chapter of the Alzheimer’s Association.

Janice Knoefel, MD, a professor in the Department of Internal Medicine, also attended the Alzheimer’s workshop. “The project we are working on right now came out of the priorities we identified together,” she says.

Courtney Burnette, PhD, an associate professor in the Department of Pediatrics, says the autism spectrum disorder pilot broadened her perspective. “The process incorporates people in a way that makes the results more meaningful, more applicable,” she says.

Burnette’s experience reflects the consensus of the researchers attending the workshops. “I’m really hopeful,” she says. “We can maintain our clinical mission but do it in a different way that not only informs our services but informs our research, too.”
Rich alluvial soils washed down over millennia from the Himalayas into the fertile Ganges Delta in Bangladesh contain high levels of naturally occurring arsenic. Today, many of that country’s 160 million people are facing an epidemic of disease from drinking arsenic-laden well water.

Scott Burchiel, an expert in immunotoxicology and environmental carcinogenesis in the UNM College of Pharmacy, is studying whether arsenic exposure is responsible for sky-high rates of cancer and respiratory disease in Bangladesh. The question has great relevance for people living in the Southwestern U.S., where soils often contain arsenic.

At the moment, Burchiel is examining white blood cells drawn from Bangladeshi men to see whether the carcinogenic and immune-impairing effects of arsenic are amplified by exposure to the compounds in cigarette smoke.

Based on his preliminary findings, Burchiel says, “It’s a synergistic double whammy.” Arsenic, toxic when ingested in sufficient amounts, is also a carcinogen and it inhibits the immune system, he says. And it appears that polycyclic aromatic hydrocarbons in cigarette smoke have much the same effect.

Burchiel and colleagues Jim Liu and Laurie Hudson, both professors of pharmaceutical science in the College of Pharmacy, received Virtual Consortium for Translational/Transdisciplinary Environmental Research (ViCTER) funding from the National Institute of Environmental Health Sciences that enabled them to join in an ongoing study led by scientists at Columbia University and the University of Chicago.

Bangladesh’s population occupies a country about the size of New Mexico. More than 30 percent regularly consume water with more than 50 parts per billion of arsenic – an older standard that the U.S. government no longer recognizes as safe.

Blood samples were collected from 200 men at a field clinic in Arailhazar, Bangladesh. White blood cells were cryopreserved and shipped to New Mexico via FedEx using special vessels containing frozen nitrogen that Burchiel helped perfect.

White cells, produced in the thymus, spleen and bone marrow, are the cornerstone of the body’s immune response, Burchiel explains. In the lab, “we study immune function,” he says. “We activate the cells and we make them perform. Because if they can’t perform they can’t prevent disease.”

Burchiel is extending his research to look at upper airway disease in people exposed to high arsenic levels. “We know that people exposed to arsenic have more upper airway infections,” he says. “We think it’s because their immune responses are altered, leading to increased illness.”
The stats are the stuff of parents’ nightmares: suicide is the second leading cause of death in the U.S. for youths 12-18 – and New Mexico’s rates are 50 percent higher than national figures.

Being identified as different from your peers makes that dire situation even riskier. For many Lesbian/Gay/Bi-Sexual/Transgendered/Queer or Questioning (LGBTQ) youths, the schoolyard is a daily source of stress. They are much more likely than their peers to be threatened or injured with a weapon at school or to skip classes because they don’t feel safe.

That stress takes its toll. LGBTQ youth suicide rates are three to four times higher than their peers. In a 2015 study, half of the LGBTQ youths interviewed reported thinking about taking their lives, with one in four confessing to a past attempt.

“Kids spend more awake hours at school than they do anywhere else,” Ramos says. She and colleagues at the Pacific Institute for Research and Evaluation and the University of California, San Diego, are leading a four-year project to work with school nurses to make school grounds safer.

The study, “Implementing School Nursing Strategies to Reduce LGBTQ Adolescent Suicide,” is funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development.

In 2011, the U.S. Centers for Disease Control identified six strategies proven to create safe school environments. “None of those things are earth-shattering, but they can be very time-consuming and difficult to incorporate,” Ramos says. “The result is that less than five percent of schools adopt all six strategies.”

The team hopes a model for change led by school nurses will lead more schools to create safe environments.

“School nurses are uniquely positioned within schools,” Ramos says. This is a rural state and, in many areas, they are the ones taking on behavioral health issues. It makes sense that they lead the search for the best practices for their schools.”

The nurses will be supported at 40 public high schools, where they will form four- to six-person teams to identify and incorporate policies customized to their campuses. “This is a tremendous public health crisis,” Ramos says. “I would argue it is a moral imperative to make publicly funded schools safe for all students.”

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**Grant**
Implementing School Nursing Strategies to Reduce LGBTQ Adolescent Suicide

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Mary Walker, PhD, studies smokers’ hearts.

“Smoking damages blood vessels,” says Walker, a professor in the Department of Pharmaceutical Sciences at the College of Pharmacy who has dedicated most of her career to studying toxic substances that damage blood vessels. “Smokers are at a much higher risk of having a heart attack or stroke.”

Smokers face a sixfold higher risk of having a cardiac episode than non-smokers, Walker says. Smoking costs more than $190 billion annually in health expenses and lost productivity, according to the Centers for Disease Control and Prevention.

Walker is investigating the components of cigarette smoke that damage blood vessels and identifying supplements and therapies that could shield them from injury. She focuses on healthy, young smokers, between the ages of 19 and 50, who have no other risk for cardiovascular disease besides smoking.

“A 20-year-old smoker can have damaged blood vessels when otherwise they would be considered healthy,” says Walker. “Even though you are 20, having that heart attack may occur when you are 40.”

Her research looks at whether omega-3 fatty acids typically found in fish oils can reduce the lifetime risk of a heart attack or stroke. Substantial evidence suggests that these fatty acids protect against vascular injury and keep blood vessels healthy, Walker says.

In a study, mice were exposed to cigarette smoke and some were fed a diet enriched with fish oil. Walker found that mice with healthier blood vessels also had higher levels of fish oil.

She also developed a method to assess the vascular function in mice using a similar method that evaluates the vascular function in smokers. “I became more interested in expanding beyond laboratory animal-based studies to something that would make a real contribution to human health,” she says.

In a cross-sectional study, both vascular function and levels of fish oils were measured in smokers. The investigation found that smokers with healthy blood vessels also had elevated fish oil fatty acids.

Walker says that fish oil fatty acids break down into metabolites that could prevent damage to blood vessels. Her investigation will analyze metabolites in smokers and non-smokers.

The insight from the study could help develop better therapies to protect smokers, Walker says. “Nobody has ever measured them.”
Like many biomedical scientists, Steven Bradfute, PhD, is perplexed by the size and speed of the ongoing Zika virus outbreak. Discovered in the 1940s, the virus isn’t well understood, and, until recently, previous outbreaks have been relatively small and contained.

“I think everybody is struggling with that,” Bradfute says. “Why is it spreading now?”

It’s a question Bradfute and many other scientists are looking to answer as they step up research into the mosquito-borne virus, which has been linked to microcephaly and other severe birth defects in babies born to mothers infected with Zika.

Bradfute, an immunologist in the UNM Department of Internal Medicine and the UNM Center for Global Health, is collaborating with Los Alamos National Laboratory to test a DNA vaccine in mice. And, with the help of pilot funding from the Clinical & Translational Science Center, he is teaming up with David Peabody, PhD, and Bryce Chackerian, PhD, professors in the Department of Molecular Genetics and Microbiology, to develop a vaccine using a novel technology that they hope will trick the immune system into attacking and neutralizing the virus.

His laboratory is also studying how different versions of the virus affect the functioning of human immune cells and which cell types are vulnerable to the virus. “If the virus blocks the immune machinery, there are certain therapies you can test to overcome that,” he says. “I’ve always been interested in how viruses evade immune responses.”

That interest has inspired Bradfute’s career conducting research on a number of other dangerous viruses, including Marburg and Ebola. While Zika is new to his lab, Bradfute says his work and the basic science questions he explores on these viruses can be applied to Zika. “We do similar things with these other viruses. Let’s do it on Zika,” he says. “We have the tools in place to work on it here.”

The worldwide surge of research that has accompanied the ongoing Zika outbreak will undoubtedly lead to new vaccines and therapies that will better prepare the world for future outbreaks, Bradfute says, just as research that happened during and after the 2013 Ebola outbreak led to advances in vaccine development.

“We’re going to learn so much more about this virus in the next year or two,” he says. “In the meantime, it’s good to be aware and cautious of the risks of Zika but at the same time not to panic. That can cloud your judgment.”
Bringing genomic research to patient care has long been a thrust of cancer medicine, but it wasn't feasible before recent technological advances.

Genomic sequencing generates colossal datasets that require sophisticated software analysis tools and the professional expertise required to evaluate the results.

The UNM Comprehensive Cancer Center has invested in state-of-the-art technologies and has developed an interdisciplinary research environment that promotes the use of genomic technologies. Multidisciplinary teams at UNM are using these tools to personalize the care they provide.

Raylene M. is just one of a growing number of patients who have benefitted from these advances. Armed with Raylene’s initial bone marrow sample and a sample taken after her 30-day induction chemotherapy treatment, Scott Ness, PhD, and his team began their genomic search for the driver mutation.

In her leukemic cells they found a novel mutation in a gene that encodes a tyrosine kinase called JAK2, a protein that plays an important role in controlling cell growth and proliferation. Many leukemias result from mutations in tyrosine kinase genes, but no one had discovered the particular mutation Raylene had.

Ness and his team are able to perform detailed RNA-sequencing to evaluate all the genes expressed in the leukemic cells. But simply knowing the driver mutation is only part of the work to save lives.

All genomic work for diagnosis and treatment must be verified in a certified clinical laboratory, and then the medical team must find the right drug or treatment for each child. UNM is extending the use of genomic approaches to help personalize the treatment for other patients and other cancers.

Raylene is an AYA – Adolescent and Young Adult – patient. These patients don’t fit neatly into pediatrics or adult cancers. Some respond better to pediatric treatments and others to adult treatments. That’s why the Cancer Center launched its AYA cancers program. Few cancer centers offer this focus on AYA patients.

Once Ness found the driver mutation, Raylene’s doctors convened the Cancer Center’s first Pediatric Molecular Tumor Board to review all the data and recommend a course of drug treatment. Fortunately, Raylene responded very well to the drug and is enjoying time with her toddler son.
Dementia slowly steals memory and personality, exacting a terrible toll on patients and their loved ones. UNM neurologist Gary Rosenberg believes that identifying the early signs of disease increases the likelihood of halting it in its tracks or even reversing it.

The first step is figuring out what type of dementia a patient has. Alzheimer’s, Binswanger’s dementia and vascular cognitive impairment are the most common forms, but they have overlapping symptoms, making it difficult to tell them apart.

Rosenberg, founding director of the new UNM Memory & Aging Center and an expert on the functioning of the blood-brain barrier, believes he has the tools to do just that.

“You use biomarkers,” he says. “You collect as much information as you can right at the beginning and try to predict the trajectory of that patient. A machine-learning algorithm aids in making the most accurate diagnosis based on all the data collected. This high-tech approach will bring us closer to personalized medicine and to drug treatment trials.”

The new center, housed in Pete and Nancy Domenici Hall, has space for bench science, a clinical research area where patients can be seen and access to the advanced neuroimaging methods (including MRI) and image processing capabilities of the Mind Research Network, which shares the building.

Rosenberg recently received a five-year $5 million National Institutes of Health U-grant to be one of seven academic medical centers in a consortium to study white matter involvement in dementia. This grant is in addition to two on-going RO1 grants to study new imaging methods in patients and to develop drugs to treat brain inflammation.

He notes that the NIH, which had long targeted the amyloid protein that accumulates as gooey plaques in the brains of Alzheimer’s patients, is broadening its focus to include vascular disease – and UNM is well-suited to pursue that line of research and conduct clinical trials of potential treatments.

“The shift is coming toward the vascular world now,” Rosenberg says. “We’re poised to be really doing the work that NIH is interested in.”
UNM Health Sciences Center scientists make extraordinary progress in uncovering the causes of disease, advancing cures and new therapies and finding ways to keep people healthy – but they often don’t get credit for their achievements.

Part of the problem lies in trying to communicate these advances to the public at a time when science literacy is in decline.

To help bridge the gap, the Clinical & Translational Science Center is partnering with the Alan Alda Center for Communicating Science at Stony Brook University in New York. It’s an innovative program launched by actor Alan Alda in 2009 to help scientists master skills to help them more effectively convey their work.

Alda, known for his roles on M*A*S*H, The West Wing and E.R., spent 15 seasons hosting Scientific American Frontiers on PBS. Alda Center trainers use a variety of techniques, including improvisational theater exercises, to help scientists learn to listen intently, read verbal and nonverbal cues and respond to others with greater empathy.

“It’s a natural fit for us here at UNM – and it comes at an especially important time,” said executive vice chancellor Richard S. Larson, MD, PhD. “The Health Sciences Center has a mandate to serve New Mexicans’ health care needs, which means our research mission must reflect community priorities.

“The CTSC also places a special emphasis on moving scientific discoveries from bench to bedside. To do this, we must be able to partner with people and organizations outside the university, and that begins with effective communication.”

Alda Center personnel are training UNM faculty members to teach effective communications so they can become a resource for spreading these techniques to other universities that share in Clinical and Translational Science Awards from the National Institutes of Health.
Larry Sklar and Bruce Edwards knew they had a great idea. In the mid-1990s, flow cytometry – a technology used to analyze the physical and chemical characteristics of cells – was a slow and cumbersome process that provided important data one sample at a time.

The duo devised a system to exponentially accelerate the process, enabling 96 unique molecular samples to run at once. (They have since advanced their integrated processes to screen 1,536 samples in 10 minutes.) After co-inventing the instrumentation, Sklar focused on identifying resources, while Edwards developed the software to conduct and analyze experiments.

Their innovation would enable fast, accurate and reproducible screening of thousands of drugs to study the function of genes and cells, as well as biochemical pathways for new or existing drugs. These discoveries could be used to battle myriad diseases – cancer, infectious diseases and diabetes – as well as applications in precision medicine, immuno-oncology and antibody discovery.

The UNM Cancer Center, UNM Health Sciences Center Office of Research and National Institutes of Health recognized the potential in 1998, providing resources and funding for the high-throughput flow cytometry technology. But Sklar and Edwards, both professors in UNM’s Department of Pathology, were unable to spur investor support from within New Mexico to commercialize their invention.

“Our was totally homegrown technology built from the ground up,” Sklar reflects. “We developed a business model, but our focus wasn’t on running a business.”

They published papers in scientific journals and took what Sklar describes as their “dog and pony show” to cytometry conferences and companies throughout the U.S. hoping to interest outside investors.

Over time, support came from UNM’s Science and Technology Corporation, which helped Sklar and Edwards to commercialize the technology in 2006. Finally, this year, IntelliCyt Corp. acquired their innovation for a whopping $90 million – with a commitment to keep the technology in New Mexico.
Richard S. Larson, MD, PhD, the UNM Health Sciences Center’s executive vice chancellor and vice chancellor for research, knows high-throughput flow cytometry is one that nearly got away. He’s leading an initiative to ensure it doesn’t happen again.

“We need a robust set of strategies with strong support from the public and private sectors, so we’ve assembled GrowBio,” Larson says. “We have a strong foundation and early success, and we’d like to continue the momentum.”

GrowBio is a public-private group that is mapping out policies and economic incentives to better propel the state’s bioscience industry. To support its recommendations, it has released a detailed report that uses case studies from cities and states that have succeeded in building biotech corridors.

Biosciences are disciplines that enhance human health, maintain the food supply and safeguard the environment. Bioscience businesses spur substantial research funding, private investment and job creation while paying high wages, attracting skilled workers and expanding the local economy.

New Mexico has several important bright spots that already support biotechnology commerce. National and private-sector laboratories and research universities already provide innovative technologies in the state with tremendous potential. Collectively, this group submits more than 1,000 patent applications per year, according to the GrowBio report.

To deliver a robust new industry to an economy in need, GrowBio’s report recommends specific state initiatives:

• Open up capital by attracting entities as lead investors; directing catalyst funds to focus on bioscience; expanding tax credits for investors and modifying investment guidelines to support biosciences.
• Develop a Bioscience Industry Cluster by matching funding from private organizations and creating a Head of Bioscience position for the state.
• Develop New Mexico’s workforce and entrepreneurship by creating a match-funding program and tax incentives to draw CEOs to lead bioscience companies and initiate a bioscience startup mentorship program.
• Develop infrastructure, permitting and regulation strategies by adjusting gross receipts taxes for the bioscience industry. Develop a turnkey regulatory package for new businesses and implement a special tax on e-cigarettes dedicated to developing bioscience.
• Fund a grant program for bioscience startups and matching extramural grant dollars for bioscience startups.

“The trajectory of bioscience innovations coming from the UNM Health Sciences Center alone has gone from one product a year to five different products this year,” Larson says. “There are good opportunities in New Mexico for venture capitalists and other investors, so we’re hoping for targeted state support to incentivize and promote the bioscience industry.”
Getting patients to take their medication on time is a headache for health care providers, but a UNM researcher believes real-time medication monitoring could help patients stick to treatment.

“People forget to take their medication even if it’s on a simple regimen,” says Jason McConville, PhD, an associate professor in the College of Pharmacy’s Department of Pharmaceutical Sciences. “It’s a big problem.”

McConville has developed a wireless medication monitor that provides real-time alerts when a patient takes or forgets to take medication. It serves both as a reminder and as a notification system to track medication usage.

The technology is simple. Three-dimensional printers create the monitor’s components, says McConville, who developed the device with Michael Bernauer, a fellow in biomedical informatics.

A wireless chip is attached to a medication blister pack, which is marked with conductive ink. When a patient breaks a blister to retrieve a tablet a signal is transmitted to a health care provider or a family member.

Should patients forget to take their medication they will receive a text message via their smartphones. “The system is very simple and may be monitored remotely,” McConville says.

The monitor could also help ascertain a patient’s medication usage routine and prompt a health care provider to counsel a patient if needed, he says. Potential applications could include refilling prescriptions automatically without intervention from a patient or a doctor, thus providing continuity of therapy.

McConville partnered with pharmaceutical distributor ASD Healthcare to build prototypes for clinical testing and to further refine the device for universal patient use.

“We are miniaturizing the device to make it inconspicuous to the patient,” he says. “I hope it can help with patient compliance and improve their health outcomes.”
You’re a police officer – the first on scene. There’s a 40-year-old man on the roof of his home with a handgun. He’s a veteran who’s seen combat, suffers from PTSD and depression and is highly intoxicated. He has struck his wife and is threatening his 11-year-old son.

As a 10-year veteran of the force, you’ve dealt with countless crises, but nothing quite like this. If only there were a behavioral health specialist to consult in this dangerously escalating scenario.

Now there is.

Albuquerque Police Department officer Matthew Tinney and psychiatrist Dan Duhigg, MD, are using a U.S. Department of Justice grant through UNM’s Department of Psychiatry & Behavioral Sciences to construct an ambitious program that reintroduces community policing while providing advanced crisis intervention training (CIT).

They’re using a UNM telehealth model called ECHO, developed more than a decade ago to help treat hepatitis C in rural areas of New Mexico, enabling Duhigg to assist officers in the field during a first-responder crisis.

The evolving CIT program also advances police training in the classroom, building empathy, communication and community engagement. “We’re involved with active interventions while assisting police officers in building long-term relationships with the public,” Duhigg says.

Duhigg and Tinney are also creating a curriculum using case-based learning and classroom training, so law enforcement and other first responders can better recognize and react to mental illness. The 40-hour course dedicates 10 hours to actual case studies and 30 hours of classroom lectures.

“Law enforcement is constantly looking for better policing practices,” Tinney says. “We’ve become the go-to agency for dealing with people with mental illness. It’s very much a part of the job, and we truly want to help people in mental health situations.”
Everyone agrees the nation needs more clinical research professors, but all too often, young scientists find themselves fighting against overwhelming odds to carve out time and resources for their research projects.

The National Institutes of Health seeks to remedy that situation with the Mentored Career Development Program – also known as the KL-2 program – which is designed to help early-career researchers free up time for research and develop their vision.

“It is a national program,” she says. “Each medical school with a clinical translational research center must have one. The goal is to provide each researcher with the support they need to ‘graduate’ through obtaining large, career-oriented grants of their own.”

UNM has sponsored 11 scholars in a variety of departments to date. Collectively, they have received 43 grants and contracts, with more than 93 articles published. And while the program advertises nationally, about 50 percent of the scholars were already at the Health Sciences Center.

Research topics have ranged from movement disorders to influenza and other viruses in children to intimate partner violence. Sarah Pirio Richardson, MD, an assistant professor in the Department of Neurology, who has researched dystonia disorder, is the program’s most recent “graduate.” Another Neurology faculty member, Sarah Youssof, MD, is the most recent scholar to join the program.

It’s somewhat akin to an arranged marriage: the researcher – and his or her field of inquiry – must match the needs of the department where they will be headquartered. The program advertises nationally, with the needs of each clinical department willing to co-sponsor a KL-2 scholar listed in the ads.

“The scholars receive a lab and a mentor,” Helitzer says. “They develop a research plan and there is a negotiation about a startup package of $25,000 to set up lab space.
Every scholar gets 75 percent of their salary from NIH, with their department responsible for the rest.

Once scholars join the program, they are introduced to the MAC – the Multidisciplinary Advisory Committee at the Clinical & Translational Science Center. Scholars present monthly updates and semi-annual formal reports on their work to the committee members. Meeting their standards is probably one of the most arduous parts of the process, she said.

“The MAC experience can be difficult for a new researcher,” Helitzer says. “These are very experienced researchers making harsh comments about their work.”

The KL-2 scholars know the rigorous review process is for their own good.

“Every one of the scholars at some point has wanted to do something that the committee didn’t believe was in the best interest of their research,” Helitzer adds. “It happens to each one of them. What we want them to understand is that we have a vision and a track record in getting careers developed.”

Recruiting efforts for two new scholars are currently underway. “We try to average around five to six scholars in the program at all times,” she says.

“I look at what other researchers in the same stage of their careers have to go through and I think, ‘Oh, these scholars are so lucky.’ And I know they are doing important research that will benefit us all,” Helitzer says.

The Multidisciplinary Mentored Career Development Program (KL 2) Scholars at the UNM Health Sciences Center

The complete roster of scholars includes:

- Akshay Sood, MD, MPH, Internal Medicine
- Jon Femling, MD, PhD, Emergency Medicine
- Sonlee West, MD, Surgery
- Ellen Beswick, PhD, Microbiology and Genetics
- Alberta Kong, MD, Pediatrics
- Christopher Abbott, MD, Psychiatry
- Sarah Pirio Richardson, MD, Neurology
- Darrell Dinwiddie, PhD, Pediatrics
- Dawn Delfin, PhD, Pharmacy
- Brandi Fink, PhD, Psychiatry
- Sarah Youssof, MD, Neurology
One of the greatest challenges faced by patients with bipolar disorder – some 6 million people in the United States – is the fluctuating nature of the disease, from euphoric highs to depressing lows.

That complicates treatment, because the stability achieved by some of the best drugs can seem deadening compared with episodes of mania, as damaging as they are to the brain. Also, treatments vary in effectiveness from patient to patient, but not much is known about why.

“Many people go untreated – with diverse consequences,” says UNM researcher Christophe Lambert, PhD, who has embarked on a four-year, $2.3 million study that takes a new approach to treatment options.

With a team of nearly 20 experts in mental health, neuroscience, computer science and statistics, Lambert will analyze the medical histories of more than a million Americans with bipolar disorder, trying to distill the safety and effectiveness of nine commonly prescribed drugs under different conditions.

Lambert’s project is an example of the diverse research subjects funded by the nonprofit Patient-Centered Outcomes Research Institute (PCORI), the nation’s leading underwriter of so-called evidence-based research driven by patient concerns. Five UNM scholars have received PCORI funding since 2013.

Treatment for bipolar disorder often involves a roller coaster ride of trial and error, including damaging repeat episodes of mania. The goal of Lambert’s study is to give patients and their doctors better tools to predict how they might react to different drugs.

“The scope and comprehensiveness of drugs we’re looking at is quite unprecedented,” says Lambert, who has conducted number-crunching studies before, but not on this scale.

Starting with a massive data set of 100 million de-identified electronic medical records (some of which will be used as controls), Lambert and
his team will categorize the 1 million bipolar patients by attributes such as age, gender, disease subtype and co-existing medical conditions.

“You can build models that assess the contribution of those factors to various outcomes,” Lambert says. Some events the team will be looking for are suicides and self-harm episodes, hospitalizations and drug side effects, especially in young people and seniors, two groups that are typically overlooked in research studies.

Patient participation is central to the study design and content, despite its scale and anonymity. The researchers are working with focus groups from the National Alliance on Mental Illness in Montana, New Mexico and Los Angeles, asking patients what kinds of information would be most valuable to them.

“We’re asking questions about treatments, but also about types of access and advocacy, and how this affects their identities and careers,” Lambert explains. Access to care may be important in rural areas like New Mexico, for example, but is not usually considered in treatment recommendations.

For concerns that cannot be answered by the data, “We’ll provide guidance back to the community about the type of data that should be collected, that patients care about,” Lambert says. Researchers are also consulting with an advisory group of patients, families, mental health advocates and clinicians throughout the study.

Lambert hopes the study will also demonstrate how population-level data analysis can contribute to more effective, personalized medicine that gives weight to patients’ concerns and values.

“Few of us are not touched by people in our immediate family with mental illness,” he says of his stake in the project. “And I find the interface of big-data analytics and personalized medicine to be exciting and interesting.”
At some stage early in everyone’s career there’s a jumping-off point that tests all that’s been learned in one’s chosen field, while developing new skills and strengthening confidence.

Twenty-four select UNM bachelors of science in nursing (BSN) students are preparing for a two-week plunge into clinical reality as part of a federal Health Resources and Services Administration grant to promote nurse education, practice, quality and retention on the Navajo Nation.

“Our nursing students will be stepping into their most challenging educational opportunity yet,” says Judy Liesveld, PhD, associate professor in the UNM College of Nursing and the grant’s principal investigator. “In these remote primary care settings, you use every scrap of knowledge you’ve acquired and get to apply some creative thinking to complex health issues.”

The program places BSN students from UNM and San Juan College at the Indian Health Service Unit in Chinle, Ariz., to provide care for underserved populations and other high-risk groups.

Liesveld has designed the program for students to experience primary care nursing in underserved communities, while increasing partnerships between the college and health clinics in the region. “Learning about a community and its health needs and playing a part in improving health locally are wonderful opportunities and experiences,” she says.

The practicum enables two groups of 12 senior-level nursing students to spend two weeks each working...
with a preceptor in the Chinle IHS primary care facilities. The students will be selected based on their academic performance and interest in serving the medically underserved in a community-based primary care setting.

The program seeks students in their final year of the BSN program at UNM and at San Juan College in Farmington, N.M. If selected, the students will complete nearly 100 hours of purely clinical work, while developing a health project deemed important by the Chinle community, such as an immunization education campaign or nutrition and exercise programs.

Practicum students and faculty also will receive cultural humility training to build cultural awareness when addressing the community’s health needs, challenges and opportunities.

At least six students who complete the initial practicum will be selected yearly to return to the Chinle IHS Unit for their capstone practicum – an additional 96 hours of clinical service in a rural primary care setting. Ideally, these nursing students will continue their passion for working in primary care settings in underserved areas.

Chinle, a town of about 4,500 at the mouth of Canyon de Chelly, is about 230 miles from Albuquerque and 150 miles from Farmington, requiring an extended stay for the practicum, which creates a fully immersive experience. It was selected because of its primary care facilities and its proximity to UNM and San Juan College. Chinle IHS Unit nursing preceptors will be involved in creating clinical and community experiences for the students.

“We're very excited because this program delivers health care where it’s needed while providing advanced nursing students a unique chance to learn primary care on the frontlines,” Liesveld says.

Nursing students think they need to begin their careers working in a hospital, Liesveld says. “This program shows our students the personal and dynamic feel of primary-care community nursing as a career path. We want to create a passion in our students to work in medically underserved areas where they become an important part of the community and can really have an impact.”
The Eighth Annual Research Day Awards Ceremony recognized excellence in five categories:

Basic Science  Clinical Science  Junior Faculty  Population Science  Team Science
The Eighth Annual Research Day Awards Ceremony was held on November 4, 2016. Five colleagues were nominated by their peers and selected by a faculty committee for their outstanding research contributions.

**Linda Cook, PhD**  
*Internal Medicine*  
*Population Science Research*  
Linda Cook’s research focuses on ovarian cancer, which often is detected too late to cure. She is examining how ethnicity and molecular subtypes affect survival rates by studying differences in mitochondrial DNA between women with and without ovarian cancer. She thanked the public for supporting her work. “Everyone has been touched by cancer in some way,” she says. “One in three Americans will be diagnosed with cancer in their lifetime.”

**Bill Shuttleworth, PhD**  
*Neurosciences*  
*Team Science Research*  
Bill Shuttleworth established the new Center for Brain Recovery and Repair to bring together researchers from across campus to develop new treatments for people recovering from strokes and traumatic brain injuries. Shuttleworth says that although his research began in a dark lab studying the brains of rats, “It wasn’t until I moved away from basic science and opened doors that I could build a new culture of community research.”

**Gena Dunivan, MD**  
*Obstetrics and Gynecology*  
*Clinical Science Research*  
Gena Dunivan has a strong interest in assessing post-surgical patient outcomes, an area that is not often explored in science. She is contributing to a first-of-its-kind long-term study of patients who have undergone pelvic floor restoration surgery. Dunivan, who is also the mother of three young children, was “honored, humbled and surprised,” by the award and thanked her family and the Community Engagement and Research Core for supporting her work.

**Kiran Bhaskar, PhD**  
*Molecular Genetics and Microbiology*  
*Junior Faculty Research*  
Kiran Bhaskar is working on a vaccine to treat and prevent Alzheimer’s disease. The research will soon appear in Nature. In his three years at UNM he has published more than 30 articles and has made significant strides in studying the neuropathology and cerebrovascular mechanisms of dementia. “I’m lucky to have the support of my department and colleagues,” he says. “It has been a pleasure to work with all of them.”

**Jim Liu, PhD, College of Pharmacy**  
*Junior Faculty*  
Jim Liu’s research falls into two broad areas: metal toxicity and neuroscience. His toxicity research looks at the ways in which toxic metals affect the body. In neuroscience, his lab studies of the mechanisms of stroke-induced brain injuries. “Coming to UNM is the best decision I’ve made in my life,” Liu says, adding that he has found his colleagues the most collegial faculty he’s had the pleasure of working with.
Discovery Changes

Bench to Bedside to Community
Emerging insights to transform health
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.

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

Alfreda Destea Nelson, PhD
K12 Scholar, NIH
Immune receptor signaling & dysregulation in cancer diseases
Mentor: Bridget Wilson, PhD

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

Neil Detweiler, PhD
Role of acid-sensing ion channels in acute hypoxic pulmonary vasoconstriction
Mentor: Nikki Jernigan

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

M. Frank Erasmus, PhD Candidate
F31 Recipient, NIH
Precursor B acute lymphoblastic leukemia
Mentor: Bridget Wilson, PhD

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

Brandi Fink, PhD
KL2 Scholar, NIH/NCATS
Neuropsychophysiological mediators of the association between alcohol use and intimate partner violence
Mentors: Fernando Valenzuela, MD, PhD; Michael Bogenschutz, MD
Dallas Benjamin Flies, PhD  
T32 Recipient, NIH/NIAID  
Identification of biomarkers and development of immunotherapeutics for ovarian cancer  
Mentor: Sarah R. Adams, MD

Selina Garcia  
Regulation of endothelial function by acid sensing ion channel 1  
Mentor: Nikki Jernigan

Amy Gardiner, PhD  
Competition between RNA-binding proteins and microRNAs in the control of gene expression

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

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

Jennifer Hettema, PhD  
K23 Scholar, NIH  
Mentored research on improving alcohol brief interventions in medical settings  
Mentor: Karen Ingersoll, PhD - University of Virginia

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

Naomi Lee  
Developing novel vaccines using virus-like particles to target Neisseria gonorrhoea  
2) evaluating sexual health within tribal communities by determining STI prevalence and risk factors

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

Robert Oliver, PhD Candidate  
F31 Recipient, NIH  
*Role of MicroRNAs and RNA-binding protein in drug abuse*  
Mentor: Nora Perrone-Bizzorzero, 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

Dominique Perez  
KL2 Scholar, CTSC  
*Utility of small molecule inhibitors of cAMP efflux for translation as leukemia therapeutics*  
Mentors: Larry Sklar, PhD; Alexandre Chigaev, 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

Dominique Price, PhD  
T32 Recipient, NIH/NIAID  
*Enhancing the protective efficacy of the BCG vaccine in environmental mycobacterial-endemic regions using the pulmonary route of administration*  
Mentor: Pavan Muttil, PhD

Perenkita Mendiola, PhD Candidate  
K05 Scholar, NIH/NCI  
*Identification of endogenous regulators of cystathionine gamma lyase (CSE) in endothelial cells*  
Mentor: Nancy Kanagy, PhD

Anita L. Ray, PhD Candidate  
T32 Recipient  
*The role of inflammation in colorectal cancer and potential immunotherapeutic targets*  
Mentor: Ellen Beswick, PhD

Prashant Nighot, DVM, PhD  
K01 Scholar, NIH  
*Inflammatory bowel disease*  
Mentors: Thomas Ma, MD, 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
Mentors: Laurie Hudson, PhD, Carolyn Muller, PhD; Andrea Allan, PhD; Steve Bellinski, PhD, Angela Wandinger-Ness, PhD

Joshua Sanchez
Effects of prenatal alcohol exposure on the neuroimmune response during chronic pain
Mentor: Erin Milligan, PhD

Joshua Sheak, MD/PhD Candidate
F31 Recipient
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; Nancy Kanagy PhD; Nikki Jernigan, PhD

Tess Shideler, PhD
The effects of EGFR activation on endosomal transport
Mentor: Angela Wandinger-Ness, PhD

Christina Termini, PhD Candidate
F31 Recipient, NIH
Identify the mechanisms and molecules that regulate hematopoietic stem/progenitor cell adhesion to the microenvironment to provide clinical targets to enhance HSPC transplantation therapies
Mentor: Jennifer Gillette, PhD

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

Christine Woods, PhD
K01 Scholar, NIH
Determining the role of G protein-coupled estrogen receptor in metabolism

Kayla R. Zehr, PhD
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

Katherine Zychowski, PhD
K05 Scholar, NIH/NCI
Inhalation and cardiovascular toxicology, public health

Unavailable for photos: Laura Cross, Michela Dell’Orco, Adriana Luna Leon and Julia Pinner
CHANCELLOR FOR HEALTH SCIENCES

ANDREW BARTKUS
New Mexico Department of Health ........................................ $10,000
Hospital Preparedness Services for SRMC

DARREN BRAUDE
Bernalillo County Sheriff’s Department .................................. $22,500
Professional Services-Medical Director and SWAT Training

PAUL GENTRY ECHOLS
ABQ Health Partners, LLC .................................................. $25,000
Professional Services

RICHARD LARSON
UNM Foundation .................................................................. $913,814
Private Gifts for Research

UNM Foundation .................................................................. $377,399
Private Gifts for Research

UNM Foundation .................................................................. $58,920
Private Gifts for Research

STEVE MCKERNAN
TriState CareFlight .................................................................. $5,000
Helipad Use Agreement

STEVEN MCLAUGHLIN
Valencia Regional Emergency Communication Center .......... $9,000
Professional Services-Valencia Regional Emergency Communications Center

RODNEY MCNEASE
Albuquerque Public Schools ................................................. $8,000
Behavioral Health Assessment and Treatment for Students

PAUL ROTH
United Blood Services .......................................................... $128,160
Medical Director Services

PHILIP WIEST
U.S. Department of Veterans Affairs ...................................... $733,333
Radiological and Nuclear Medicine Diagnostics and Therapy Services

HEALTH SCIENCES LIBRARY AND INFORMATICS CENTER

PATRICIA BRADLEY
Center for Public Service Communications .......................... $25,000
Native Voices Community Outreach

Center for Public Service Communications .......................... $14,000
Native Voices Community Outreach: New Mexico’s Tribal Colleges and Universities

PHILIP KROTH
HHS/Agency for Healthcare Research and Quality .................. $185,296
Minimizing Stress, Maximizing Success of Physician’s Use of Health Information and Communications Technologies

Bravewell Collaborative .................................................... $2,596
BraveNet Membership Application and Travel Support

OFFICE OF RESEARCH

RICHARD LARSON
Lovelace Respiratory Research Institute .................................. $39,795
LRR/BSPG Fellowship Agreement

Lovelace Respiratory Research Institute .................................. $4,737
LRR/BSPG Admin Support Agreement

New Mexico VA Health Care System ..................................... $27,092
Veterinary Services for the New Mexico Veterans Affairs Health Care System

CLINICAL & TRANSLATIONAL SCIENCE CENTER

BRANDI FINK
NIH/National Institute on Alcohol Abuse and Alcoholism .......... $237,454
Over-Arousal as a Mechanism between Alcohol and Intimate Partner Violence

DEBORAH HELITZER
NIH/National Center for Advancing Translational Sciences ...... $331,150
University of New Mexico Clinical and Translational Science Center KL2

NIH/National Center for Advancing Translational Sciences ...... $303,564
University of New Mexico Clinical and Translational Science Center KL2

ALBERTA KONG
NIH/National Institutes of Health ......................................... $717,205
ACTION PAC: Adolescents Committed to Improvement of Nutrition and Physical Activity

NIH/National Institutes of Health ......................................... $46,830
ACTION PAC: Adolescents Committed to Improvement of Nutrition and Physical Activity

RICHARD LARSON
NIH/National Center for Advancing Translational Sciences ...... $3,363,234
University of New Mexico Clinical and Translational Science Center UL1

NIH/National Center for Advancing Translational Sciences ...... $3,668,850
University of New Mexico Clinical and Translational Science Center UL1

University of Nevada, Las Vegas .......................................... $385,003
Clinical and Translational Research Infrastructure Network IDeA-CTR

Sensor-Kinesis Corporation .................................................. $358,985
Foodborne and Environmental Pathogen Detection Through SAW Sensors

Anonymous Non-Profit Foundation ..................................... $400,000
Kidney Pilot Project Award

Dartmouth College .............................................................. $54,283
Synergy-Dartmouth Center
COLLEGE OF NURSING

EMILY HAOZOUS
William Randolph Hearst Foundation ................................ $150,000
UNM College of Nursing HEARST Scholar Program

Santa Fe Community Foundation ........................................ $35,000
Examining the Health Effects of Indian Health Service Underfunding on the Santa Fe Urban Indian Community: A Health Impact Assessment (BAA)

Jonas Center for Nursing Excellence ................................ $20,000
Jonas Nurse Leaders Scholarship Program

AMY LEVI
Anonymous Sponsor ....................................................... $1,168,103
Building Nursing Workforce Capacity in Sexual and Reproductive Health

JUDY LIESVOLD
HHS/Health Resources and Services Administration ................ $306,023
BSN Practicum with Navajo Indian Health Services

New Mexico Board of Nursing ......................................... $197,359
New Mexico Nursing Education Statewide Planning

American Association of Colleges of Nursing ....................... $1,000
Undergraduate White-Coat Ceremony

NANCY MORTON
New Mexico VA Health Care System ................................... $309,184
IPA: J. Lovato

JUDY RIDENOUR
Robert Wood Johnson Foundation ....................................... $1,849,510
RWJF Nursing and Health Policy Collaborative at University of New Mexico

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

STEPHEN VAN ROPER
El Pueblo Health Service ................................................... $121,474
El Pueblo Mental Health Contract

El Pueblo Health Service ................................................... $114,583
El Pueblo Mental Health Contract

ACE Leadership High School .............................................. $60,000
The Board of Architecture, Construction, and Engineering Leadership High School

ABQ Health Partners, LLC .................................................. $55,702
ABQ Health Partners Contract (w/BAA)

Mountain Spirit Integrative Medicine ................................... $55,036
Mountain Spirit-Heidi Rogers

El Centro Family Health ................................................... $55,036
El Centro Family Health-Heidi Rogers

El Pueblo Health Service ................................................... $54,862
El Pueblo Mental Health Contract

First Nations Community Healthsource, Inc. ............................. $53,125
First Nations Community Healthsource, Inc.

UNMH/UNM Hospital .......................................................... $10,791
Ambulatory Care Providers (Haeffele)

COLLEGE OF PHARMACY

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

New Mexico Department of Health ...................................... $22,266
Health Systems Data Management and Use of Team-Based Healthcare

LUDMILA BAKHIREVA
NIH/National Institute on Alcohol Abuse and Alcoholism ................ $591,899
Early Indices of Atypical Neurodevelopment Associated with Fetal Alcohol Exposure

Texas A&M University ....................................................... $56,000
Texas Office of Prevention of Developmental Disabilities

BARRY BLESKE
University of Michigan ..................................................... $25,369
Genetic Determinants of ACEi Prodrug Activation

University of Michigan ..................................................... $12,304
CES1 Variants as Determinant of ACE Inhibitor Activation: A Healthy Volunteer Study

University of Michigan ..................................................... $4,026
CES1 Variants as Determinant of ACE Inhibitor Activation: A Healthy Volunteer Study

SCOTT BURCHIEL
NIH/National Institutes of Health ......................................... $729,273
Synergistic Immunosuppression by PAHs and Arsenite

Columbia University ......................................................... $212,671
Arsenic Exposure, Impaired Respiratory Function and Immunosuppression

Columbia University ......................................................... $189,955
Arsenic Exposure, Impaired Respiratory Function and Immunosuppression

MATTHEW CAMPEN
HHS/Centers for Disease Control and Prevention ....................... $491,134
Systemic Health Implications of Occupational Nanomaterial Exposure

HHS/Centers for Disease Control and Prevention ....................... $482,143
Systemic Health Implications of Occupational Nanomaterial Exposure

NIH/National Institutes of Health ......................................... $378,325
Enhancement of Coronary Constriction by Combustion-Source Air Toxics

NIH/National Institute of Environmental Health Sciences ............... $362,871
Enhancement of Coronary Constriction by Volatile Organic Air Toxics

University of Washington .................................................. $45,000
Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions

HHS/Centers for Disease Control and Prevention ....................... $779
Systemic Health Implications of Occupational Nanomaterial Exposure
### Research Annual Report 2016

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<td><strong>PAMELA HALL</strong></td>
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<td>VLP-Based Vaccines for Targeting Staphylococcus Aureus-Secreted Virulence Factors</td>
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<td>University of Kansas</td>
<td>Mechanistic Control of Metabolism and Virulence by Fatty Acid Kinase in MRSA</td>
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<td><strong>AJNA HAMIDOVIC</strong></td>
<td>NIH/National Institute of Allergy and Infectious Diseases</td>
<td>Intranasal Insulin Treatment for Weight Management During Smoking Cessation</td>
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<td><strong>LAURIE HUDSON</strong></td>
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<td>Zinc Chemoprevention of Arsenic Co-Carcinogenesis</td>
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<td><strong>JOHNNYNE LEWIS</strong></td>
<td>HHS/Centers for Disease Control and Prevention</td>
<td>A Prospective Birth Cohort Study in the Navajo Nation</td>
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<td>University of Louisville</td>
<td>Particulate Cr(VI) Toxicology in Human Lung Epithelial Cells and Fibroblasts</td>
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<td><strong>JASON McCONVILLE</strong></td>
<td>ASD Healthcare</td>
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<td>Radiotherapy of Gram Negative Drug-Resistant Bacteria</td>
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<td>University of South Carolina</td>
<td>Southern Oncology Network on Adverse Reactions</td>
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<td>Sandia National Laboratories</td>
<td>SNL Isotopes Request</td>
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<td><strong>MIKIKO TAKEDA</strong></td>
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<td>MTM-like Patient Education and Adherence Program in Epilepsy</td>
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<td><strong>GRAHAM TIMMINS</strong></td>
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<td>Pyrazinamide Breath Test for TB</td>
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**SABRINA SAMUDIO-RUIZ**  
NIH/National Institutes of Health .............................. $129,216  
**EGF Receptor, DNA Methylation and Platinum Resistance in Ovarian Cancer**

**SUSAN SMOLINSKE**  
HHS/Health Resources and Services Administration ............ $111,295  
**Poison Center Support and Enhancement**

Denver Health and Hospital Authority .............................. $15,623  
**Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #4**

Denver Health and Hospital Authority .............................. $1,562  
**Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #5**

Denver Health and Hospital Authority .............................. $1,562  
**Researched Abuse, Diversion and Addiction-Related Surveillance System Work Order #6**

**MARY WALKER**  
Teva Pharmaceutical Industries, LTD .............................. $75,959  
**Laquinimod Metabolism by Cytochrome P4501A1 In Vivo**

**LYNDA WELAGE**  
Molina Healthcare of New Mexico ............................... $100,000  
**Telephonic MTM Services**

**TRACI WHITE**  
Mesilla Valley Hospice ........................................ $76,800  
**Mesilla Valley Hospice Pharmacist Clinician Agreement**

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**SCHOOL OF MEDICINE**

**MICHAEL RICHARDS**  
HHS/Indian Health Service ........................................ $50,000  
**Indian Health Service Navajo Area Locums Tenens**

Anesthesiology Department

**EUGENE KOHSKIN**  
Allergan, Inc. ................................................. $17,500  
**University of New Mexico Pain Medicine Fellowship**

Biochemistry and Molecular Biology

**NATALIE ADOLPHI**  
Sandia National Laboratories ................................... $240,000  
**Biodistribution of Mesoporous Silica Nanoparticle-Supported Lipid Bilayer Platform**

Sandia National Laboratories ................................... $200,000  
**Optimization of Hydrogel-Like Matrices for Stabilization of Substances for Environmental Remediation and Therapeutics**

Sandia National Laboratories ................................... $120,000  
**Optimization of Hydrogel-Like Matrices for Stabilization of Substances for Environmental Remediation and Therapeutics**

Sandia National Laboratories ................................... $120,000  
**Optimization of Hydrogel-Like Matrices for Stabilization of Substances for Environmental Remediation and Therapeutics**

University of Louisville ........................................... $31,849  
**Biomechanical Investigation of the Effect of Bone Disorders on Pediatric Femur Fracture Potential**

Simon Fraser University .......................................... $25,549  
**Traumatic Injury Patterns of the Modern Juvenile Human Skeleton**

**KARLETT PARRA**  
American Heart Association ....................................... $140,000  
**V-ATPase-Dependent TORC1 Regulation in Yeast**

**Brain and Behavioral Health Institute**

**JOHN WEAVER**  
Eastern New Mexico University ..................................... $8,400  
**Vascular Mechanisms of Oxidative Stress and Insulin Regulation in Metabolic Syndrome**

**YIRONG YANG**  
Lovelace Respiratory Research Institute ........................ $2,325  
**Animal MRI Scan Service**

**Cancer Research and Treatment Center**

**SARAH ADAMS**  
New Mexico Cancer Care Alliance ................................ $172,872  
**Clinical Trial Subaward Phase 1 and 2**

New Mexico Cancer Care Alliance ................................ $80,935  
**Clinical Trial Phase 3**

Phi Beta Psi Foundation ........................................... $52,600  
**IL10 Blockade to Restrict Intraperitoneal Ovarian Cancer Metastasis**

**Cecilia Arana Yi**  
New Mexico Cancer Care Alliance ................................ $109,450  
**Clinical Trial Phase 1 and 2**

New Mexico Cancer Care Alliance ................................ $107,345  
**Clinical Trial Sub-Award-Phase 1b and 2a**

New Mexico Cancer Care Alliance ................................ $100,730  
**Clinical Trial Subaward Phase 1 and 2**

New Mexico Cancer Care Alliance ................................ $100,728  
**Clinical Trial Phase 3**

**MARIANNE BERWICK**  
Memorial Sloan-Kettering Cancer Center ........................ $258,917  
**Personalized Genomic Testing for Melanoma: Maximizing Personal Utility and Research**

NIH/National Cancer Institute ..................................... $159,998  
**Melanoma Prevention: Using the Sun**

**ELLEN BESWICK**  
Carl C. Anderson Sr. & Marie Jo Anderson Charitable Foundation ........................ $50,000  
**Targeting Granulocyte Colony-Stimulating Factor for Treatment of Colorectal Cancer Metastasis**

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**Jason Joyner, MS**
Yanis Boumber
U.S. Department of Defense ........................................ $363,133
LC140074: Msi2 Regulates the Aggressiveness of Non-Small Cell Lung Cancer

New Mexico Cancer Care Alliance ........................................ $123,846
Clinical Trial Phase 3

New Mexico Cancer Care Alliance ........................................ $123,785
Clinical Trial Phase 2

New Mexico Cancer Care Alliance ........................................ $119,880
Clinical Trial Phase 3

New Mexico Cancer Care Alliance ........................................ $119,168
Clinical Trial Phase 1b and 2

New Mexico Cancer Care Alliance ........................................ $101,855
Clinical Trial Subaward Phase 3

New Mexico Cancer Care Alliance ........................................ $95,110
Clinical Trial Phase 2

New Mexico Cancer Care Alliance ........................................ $93,573
Clinical Trial Subaward Phase 1b and 2a

New Mexico Cancer Care Alliance ........................................ $78,065
Clinical Trial Subaward Phase 2

Alexandre Chigaev
Carl C. Anderson Sr. & Marie Jo Anderson Charitable Foundation ........................................ $50,000
Matrix-Mimicking Polymers for Hematopoietic Stem and Leukemic Cells

Linda Cook
NIH/National Cancer Institute ........................................... $318,673
Mitochondrial DNA and Ovarian Cancer Risk and Survival

Zoneddy Dayao
New Mexico Cancer Care Alliance ........................................ $102,099
Clinical Trial Subaward Phase 3

Matthew Fero
University of Washington ................................................ $245,277
Systems and Carcinogenic Impact Assessment of Topical Microbicides on Human Mucosa

University of Washington ................................................ $220,938
Systems and Carcinogenic Impact Assessment of Topical Microbicides on Human Mucosa

Esme Finlay
New Mexico Cancer Care Alliance ........................................ $96,165
Clinical Trial Agreement Phase 3

Richard Harvey
Carl C. Anderson Sr. & Marie Jo Anderson Charitable Foundation ........................................ $50,000
High-Throughput Combination Drug-Sensitivity Testing for Childhood Leukemias with CRLF2 Rearrangements

Deirdre Hill
NIH/National Cancer Institute ........................................... $75,604
The Natural History of Untreated Breast Cancer

NIH/National Cancer Institute ........................................... $75,541
Biomarkers of Tumor Initiation in Breast Cancer

Group Health Research Institute ........................................ $36,257
Risk-Based Breast Cancer Screening in Community Setting

Anita Kinney
Mayo Clinic ................................................................. $2,000
Alliance NCCORP Research Base-Alliance A19401 Pilot Questionnaire Study

Richard Lauer
New Mexico Cancer Care Alliance ........................................ $105,005
Clinical Trial Agreement Phase 1

New Mexico Cancer Care Alliance ........................................ $100,023
Clinical Trial Agreement Phase 1 and 2

New Mexico Cancer Care Alliance ........................................ $95,700
Clinical Trial Subaward Phase 2

Fa-Chyi Lee
New Mexico Cancer Care Alliance ........................................ $87,045
Clinical Trial Phase 2

Elizabeth McGuire
New Mexico Cancer Care Alliance ........................................ $156,045
Clinical Trial Subaward Phase 1 and 2

New Mexico Cancer Care Alliance ........................................ $135,195
Clinical Trial Agreement Phase 1 and 2

New Mexico Cancer Care Alliance ........................................ $90,482
Clinical Trial Phase 3

Laura Nervi
Consulate of Mexico in Albuquerque ..................................... $40,000
Ventanilla de Salud

Consulate of Mexico in Albuquerque ..................................... $36,000
Ventanilla de Salud

Scott Ness
NIH/ National Institutes of Health ........................................ $442,617
Mutation and Target Genes in Adenoid Cystic Carcinoma

Adenoid Cystic Carcinoma Research Foundation ....................... $193,192
Development of High-Throughput Drug Screening Assays
for Adenoid Cystic Carcinoma

NIH/National Institutes of Health ........................................ $55,370
Mutation and Target Genes in Adenoid Cystic Carcinoma

Renata Pasqualini
Gillson Longenbaugh Foundation ........................................ $125,000
In Vivo Antibody Phage Display

Rice University ............................................................. $56,475
Optical Systems for In Vivo Molecular Imaging of Cancer
YEHUDA PATT
New Mexico Cancer Care Alliance............................................. $3,840
Clinical Trial-Pilot

ERIC PROSSNITZ
New Mexico State University ............................................. $714,864
New Mexico IDEA Networks of Biomedical Research Excellence
NIH/National Cancer Institute .............................................. $313,325
G Protein-Coupled Estrogen Receptor and Breast Carcinogenesis
New Mexico State University ............................................. $33,401
New Mexico IDEA Networks of Biomedical Research Excellence
New Mexico State University ............................................. $680
New Mexico IDEA Networks of Biomedical Research Excellence

MELANIE ROYCE
NIH/National Cancer Institute ............................................. $1,383,575
Community Oncology Research Program Minority/Underserved Community Sites

MONTASER SHAHEEN
New Mexico Cancer Care Alliance ....................................... $119,028
Clinical Trial Agreement Phase 3
New Mexico Cancer Care Alliance ....................................... $319,311
Roles of Lig3 and XRCC1 Genes in Genome Stability
NIH/National Institute of General Medical Sciences ................... $267,301
Roles of DNA Ligase I in Mammalian DNA Metabolism
Lawrence Berkeley National Laboratory .................................. $86,691
Structural Cell Biology of DNA RepairMachines Project
American Medical Association Foundation ............................ $4,892
An Optimized Fluorescence-Based DNA Ligase Assay for High-Throughput Screen of Inhibitors as Cancer Therapeutics

LARRY SKLAR
Weill Cornell Medical College ............................................. $169,600
Novel DNA Double Strand Break Repair Targeting Therapeutics for Cancer Treatment
Leidos, Inc. ................................................................. $74,835
Clinical Trial Agreement Phase 2
New Mexico Cancer Care Alliance ....................................... $70,712
Clinical Trial Agreement Phase 1

ALAN TOMKINSON
NIH/National Institute of Environmental Health Sciences ........... $319,311
Roles of Lig3 and XRCC1 Genes in Genome Stability
NIH/National Institute of General Medical Sciences ................. $267,301
Roles of DNA Ligase I in Mammalian DNA Metabolism
Lawrence Berkeley National Laboratory .................................. $86,691
Structural Cell Biology of DNA RepairMachines Project
American Medical Association Foundation ............................ $4,892
An Optimized Fluorescence-Based DNA Ligase Assay for High-Throughput Screen of Inhibitors as Cancer Therapeutics

CHARLES WIGGINS
NIH/National Cancer Institute ............................................. $2,944,111
SEER: Surveillance, Epidemiology, End Results Program
NIH/National Cancer Institute ............................................. $32,269
SEER Patterns of Care/Quality of Care Study: Diagnosis Year 2014
New Mexico Department of Health ........................................ $6,330
BCC Surveillance Project
U.S. Department of Justice .................................................. $2,000
Radiation Exposure Compensation Program

CHERYL WILLMAN
NIH/National Cancer Institute ............................................. $1,900,889
University of New Mexico Cancer Center Support Grant

NIH/National Cancer Institute ............................................. $250,000
Cancer Health Disparities Regional Training Network
New York University ......................................................... $211,307
Project 4: Targeted Nanotherapeutics for Acute Lymphoblastic Leukemia Therapy
NIH/National Cancer Institute ............................................. $172,654
Cervical Cancer in El Salvador: Matching Needs with Sustainable Solutions
NIH/National Cancer Institute ............................................. $125,000
Administrative Supplements to Strengthen NCI-Supported Community Outreach Capacity through Community
Children’s Hospital of Philadelphia ....................................... $121,690
Testing Targeted Therapy in Philadelphia Chromosome-like (Ph-like) ALL
New Mexico Cancer Care Alliance ....................................... $116,099
Executive Director Services Agreement/Amd 7
NIH/National Institutes of Health ......................................... $113,250
P30 CCSG University of New Mexico Cancer Center Support CURE Supplement (Year 11)
Cowboys for Cancer Research ............................................. $83,942
Cowboys for Cancer Research
St. Jude Children’s Research Hospital .................................... $56,572
Center for Precision Medicine in Leukemia
NIH/National Cancer Institute ............................................. $50,000
University of New Mexico Cancer Center Support Grant
Albuquerque Area Indian Health Service ................................ $25,000
Oncology Diagnostic and Therapeutic Services Agreement
New Mexico Cancer Care Alliance ....................................... $17,420
Administrative Services Agreement
NIH/National Cancer Institute ............................................. $12,771
University of New Mexico Cancer Center Support Grant (21923)
NIH/National Cancer Institute ............................................. $5,720
University of New Mexico Cancer Center Support Grant (23250)

BRIAND ST. GEORGE
NIH/National Institute of General Medical Sciences ................... $2,216,816
Center for Spatiotemporal Modeling of Cell Signaling
U.S. Department of Defense ................................................. $453,875
Calreticulin and Jak2 as Chaperones for MPL: Insights into MPN Pathogenesis

BRIDGET WILSON
NIH/National Institute of General Medical Sciences ................... $2,216,816
Center for Spatiotemporal Modeling of Cell Signaling
U.S. Department of Defense ................................................. $453,875
Calreticulin and Jak2 as Chaperones for MPL: Insights into MPN Pathogenesis

Kayla Zehr, BS
Cell Biology and Physiology

Laura Gonzalez-Bosc  
Actelion Pharmaceuticals Ltd. ..................................... $291,954  
Effect of Macitentan in a Rat Model of Combined Chronic Kidney Disease and Sleep Apnea

Helen Hathaway  
University of Texas, El Paso........................................... $29,646  
BUILDing SCHOLARS

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

Nancy Kanagy  
NIH/National Heart, Lung, and Blood Institute ...................... $340,124  
Hydrogen Sulfide Regulation of Vascular Tone and Blood Pressure

NIH/National Heart, Lung, and Blood Institute ...................... $32,123  
Hydrogen Sulfide Regulation of Vascular Tone and Blood Pressure

NIH/National Heart, Lung, and Blood Institute ...................... $5,669  
Hydrogen Sulfide Regulation of Vascular Tone and Blood Pressure

Thomas Resta  
American Heart Association ........................................... $140,000  
Vascular Redox Signaling in Intermittent Hypoxia-Induced Pulmonary Hypertension

NIH/National Heart, Lung, and Blood Institute ...................... $32,204  
The Role of Adaptive Immunity in Chronic Hypoxia-Induced Pulmonary Hypertension

NIH/National Heart, Lung, and Blood Institute ...................... $30,102  
The Role of PKCbeta and Oxidant Signaling in Neonatal Pulmonary Hypertension

Kristina Trujillo  
NIH/National Cancer Institute ........................................... $346,461  
Is Tumor-Adjacent Histologically Normal Tissue Primed for Tumorigenesis through the TGF(beta) Pathway?

Benjamin Walker  
NIH/National Institutes of Health ..................................... $357,165  
Minority Institutional Research Training Program (T32)

Center for Infectious Disease and Immunity

Terry Wu  
Defense Threat Reduction Agency .................................... $1,148,014  
Evaluation of Novel Subunit Tularemia Vaccines in Rat and Non-Human Primate Aerosol Infection Models

Dental Medicine

Vicki Pizanis  
HRSA/Office of Rural Health Policy .................................. $500,000  
Special Needs Dental Residency Training Program

Charles Tatlock  
New Mexico Department of Health .................................. $259,213  
Basic Oral Health Sciences

Dermatology

R. Steven Padilla  
National Psoriasis Foundation ...................................... $245,049  
Support for Resident in Dermatology

ECHO Institute

Sanjeev Arora  
GE Foundation ........................................................ $5,000,000  
Leveraging the ECHO Model to Improve Quality in FQHCs and Transform the U.S. Healthcare System

Parkland Health & Hospital System ................................ $1,500,000  
New Mexico AETC, Project ECHO

GE Foundation ........................................................ $1,000,000  
Leveraging the ECHO Model to Improve Quality in FQHCs and Transform the U.S. Healthcare System

Defense Health Agency ................................................ $754,488  
Telementoring Services

Parkland Health & Hospital System ................................ $400,000  
New Mexico AETC, Project ECHO

Elizabeth Glaser Pediatric AIDS Foundation ........................ $293,853  
Mentor and Train Providers in HIV

Liver Institute and Foundation for Education and Research .... $230,974  
Project ECHO Georgia HCV Elimination Project

Leona M. and Harry B. Helmsley Charitable Trust ................. $202,500  
Endocrinology teleECHO Program

Bristol Myers Squibb, Inc. Foundation ............................... $188,500  
Leveraging ECHO to Enhance Cancer Screening and Prevention

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

Merck Company Foundation ............................................ $150,000  
Southeast Asia Health System Transformation Planning Grant
Center for Substance Abuse Treatment ........................................... $149,934
ECHO National Addictions and Substance Abuse

Massachusetts General Hospital ........................................... $125,000
ECHO Autism: Bringing Best Autism Care to Primary Care

New Mexico Corrections Department .............................. $113,322
Hepatitis C Services

New Mexico Corrections Department ...................................... $113,322
Hepatitis C Services

Missouri Telehealth Network ........................................... $100,000
ECHO Technical Assistance for Missouri Telehealth Network

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

American Academy of Pediatrics ......................................... $89,000
Enhancing Child and Youth Epilepsy Care via the ECHO Model (FY16)

University of Washington .................................................. $63,800
Namibia HIV ECHO Expansion

Elizabeth Glaser Pediatric AIDS Foundation ....................... $30,000
Implementing Project ECHO to Build Namibian National Capacity to
Mentor and Train

University of Colorado Denver ................................................ $25,000
ECHO Technical Assistance for the University of Colorado-Denver

Universidad Austral-Buenos Aires ....................................... $25,000
ECHO Technical Assistance for Universidad Austral-Buenos Aires

University of California, San Francisco ................................ $25,000
ECHO Technical Assistance to UCSF

U.S.-Mexico Border Health Commission ............................... $22,500
TB Border ECHO Project

American Academy of Pediatrics ......................................... $20,000
Improving Access to Care for Children and Youth with Endocrinology Needs

New Mexico Department of Health ........................................ $15,825
Tuberculosis Project ECHO

Hospital Italiano-Buenos Aires, Argentina ....................... $12,500
ECHO Technical Assistance for Hospital Italiano-Buenos Aires

Hidalgo Medical Services ...................................................... $10,000
New Mexico PTCT Residency Training

Emergency Medicine

JUSTIN BACA
Sandia National Laboratories ............................................ $107,800
On-Body Transdermal Microneedle-Based Diagnostic Device to Measure
Biomarker Signatures and Report on Human Performance

LAURA BANKS
New Mexico Department of Transportation ....................... $285,000
Pedestrian Safety Initiative

New Mexico Department of Health ...................................... $84,400
Hospital and Health Systems Preparedness Project Addendum

New Mexico Department of Health ...................................... $53,278
Hospital and Health Systems Preparedness Project Addendum

DARREN BRAUDE
DOD/Department of the Air Force ...................................... $663,243
UNM Educational Service Agreement

DOD/Kirtland Air Force Base ............................................ $364,680
UNM Educational Service Agreement

DOD/Department of the Air Force ...................................... $364,680
UNM Educational Service Agreement

Gypsum Medical Associates of New Mexico, P.C. .................... $78,120
Professional Services

Valencia County ............................................................... $45,744
Professional Services

Wilderness Medics Inc ...................................................... $25,000
Professional Services (w/BAA)

National Radio Astronomy Observatory ............................. $5,760
First Responder Training Course

U.S. National Park Service ................................................ $4,750
115WFR005; Wilderness First Responder Course

Motion Picture Set Medics, LLC .......................................... $2,604
Professional Service Agreement

U.S. National Park Service ................................................ $2,001
Wilderness First Aid Course-116WFA001

DOD/Kirtland Air Force Base ............................................... $630
BLS for the Healthcare Provider Course

Zuni Pueblo ................................................................. $370
BAS113012 EMT Basic Course

JOY CROOK
State of New Mexico ....................................................... $55,000
Medical Director for TEMS Program

State of New Mexico ....................................................... $54,476
Professional Services

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

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

New Mexico Department of Health .................................... $10,000
New Mexico Child Fatality Review Data Organizer Project

Elani Wiest, PhD
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<td>Olive View Medical Center-UCLA, Emergency Department Sentinel Network for Surveillance of Emerging Infections</td>
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<td>ANDREW HARRELL</td>
<td>City of Albuquerque, Albuquerque Fire Department</td>
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<td>New Mexico Department of Homeland Security &amp; Emergency Management</td>
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<td>Bernalillo County Sheriff’s Department, Professional Services Medical Director and SWAT Training</td>
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<td>New Mexico Department of Health, THINKFIRST Project</td>
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<td>Washington University School of Medicine, Impact of Probiotic Treatment of Pediatric Gastroenteritis in the Acute-Care Setting</td>
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Kimberly Page
NIH/National Institute on Drug Abuse .............................. $1,330,280
Acute Hepatitis C Infection in Young Injectors

Gilead Sciences .......................................................... $450,000
Hepatitis Treatment and Integrated Prevention Study

Montefiore Medical Center ........................................... $426,909
ACA-Patient-Centered Models of HCV Care for People who Inject Drugs

HHS/Centers for Disease Control and Prevention .......................... $299,937
Epidemiology, Prevention and Treatment of HCV Infection in Young Adult Persons who Inject Drugs (Hepatitis-TIPS)

Douglas Perkins
NIH/National Institutes of Health .......................................... $242,882
Training and Research on Severe Malarial Anemia

Los Alamos National Laboratory ........................................ $225,000
Characterize the Emergence of Antibiotic Resistance and Virulence in the Immunocompromised population

Arti Prasad
American Academy of Family Physicians .............................. $31,325
Vaccine Science Fellow

The Well Foundation ..................................................... $10,000
7th Biennial 2016 Symposium of Integrative Medicine Professionals in the Land of Enchantment

Mark Rohrscheib
Medici Technologies ................................................. $50,372
Clinical Research Study

David Schade
The George Washington University ..................................... $365,966
GRADE: Glycaemia Reduction in Diabetes: A Comparative Effectiveness Study (Year 4)

The George Washington University ..................................... $365,664
The Glycaemia Reduction Approaches for Diabetes: A Comparative Effectiveness Study

NIH/National Institute of Diabetes and Digestive and Kidney Diseases ........................................ $262,584
Diabetes Prevention Program Outcomes Study Phase 3

Case Western Reserve University ....................................... $127,533
Epidemiology of Diabetes Intervention and Complications

NIH/National Institute of Diabetes and Digestive and Kidney Diseases ........................................ $27,947
Diabetes Prevention Program Phase 3

Case Western Reserve University ....................................... $18,830
Epidemiology of Diabetes Intervention and Complications

Case Western Reserve University ....................................... $15,435
Residual Beta Cell Function in Patients with Long-Term Type 1 Diabetes

Case Western Reserve University ....................................... $14,067
Hearing Impairment in Long-Term Type 1 Diabetes

University of South Florida ........................................... $2,000
Type 1 Diabetes TrialNet

Akshay Sood
Miners Colfax Medical Center ......................................... $134,941
Medical Consultation and Care

QTC Medical Group ............................................................ $25,000
Second Medical Opinion Evaluations

Miners Colfax Medical Center ........................................... $7,700
ACA-Building Capacity for Novel Screening Delivery for Chronic Conditions to Benefit Miners in New Mexico

Elaine Thomas
New Mexico Department of Health .................................... $67,757
STD Provider Training Project: FY16

Mark Unruh
Anonymous Non-Profit Foundation ...................................... $1,181,620
Medical Directorship and QA

Dialysis Clinic, Inc. ......................................................... $335,904
ASCEND

Dialysis Clinic, Inc. ......................................................... $328,178
Diuretic/Cool Dialysate Trial

Santo Domingo Health Center ........................................... $254,166
ACA-Shared Decision Making and Renal Supportive Care

Baystate Medical Center ................................................ $214,481
ACA-Shared Decision Making and Renal Supportive Care

University of Washington ................................................ $98,949
ACA-Treatment Options for Depression in Patients Undergoing Hemodialysis

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

Anonymous Non-Profit Foundation ...................................... $28,250
Grand Rounds Support

Baystate Medical Center ................................................ $6,872
ACA-Shared Decision Making and Renal Supportive Care

Heather Ward
NIH/National Institutes of Health ...................................... $112,912
Targeting Fibrosis in Polycystic Kidney Disease

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

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

Kiran Bhaskar, PhD
HHS/Health Resources and Services Administration ................ $277,946  
Comprehensive HIV Early Intervention Services (Ryan White Part C)  

New Mexico Department of Health ................................ $100,000  
ACA-Insurance Assistance Program for Persons Living with HIV  

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

TERRY WU  
GlaxoSmithKline .................................................. $145,066  
PK Study of GSK44 in Fischer 344 Rats  

Molecular Genetics and Microbiology  

ELLEN BESWICK  
DeGregorio Foundation ............................................ $215,000  
Targeting MK2 for Treatment of Gastric Cancer  

University of Texas Medical Branch................................ $27,000  
Regulatory Role of CD90+ Stromal Cells in Th1/Th17 Activity in Crohn's Disease  

KIRAN BHASKAR  
NIH/National Institute of Neurological Disorders and Stroke ........ $331,042  
The Role of Inflammamson Signaling in Tauopathies  

NIH/National Institute of Neurological Disorders and Stroke ........ $93,800  
Light-Based Regulation of Autophagy Processing to Target Pathological Forms of Tau  

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

Northern New Mexico Community College ........................... $6,972  
Statistical Analysis of Differential Expression of Gene Sets  

Northern New Mexico Community College ........................... $6,972  
Statistical Analysis of Differential Expression of Gene Sets  

BRYCE CHACKERIAN  
Henry M. Jackson Foundation ....................................... $37,083  
Gonococcal Peptide-Virus-Like Particle Vaccines  

VOJO DERETIC  
NIH/National Institute of Allergy and Infectious Diseases ........ $657,490  
Autophagy Against Tuberculosis and HIV  

NIH/National Institutes of Health ................................... $578,453  
Autophagy-Based HDT for Tuberculosis  

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

MICHÈLLE OZBUN  
University of Pittsburgh ............................................. $91,827  
Genetic Alterations of PIK3CA Identify Actionable Targets for HPV-Associated Head and Neck Cancer  

Albuquerque BioPark Society ........................................... $36,916  
Detection of EEHV in Abq BioPark Elephants  

DAVID S. PEABODY  
Sandia National Laboratories ......................................... $30,000  
Peptide-VLP Libraries for Epitope Mapping  

Neurology  

COREY FORD  
Novartis .......................................................... $269,308  
Clinical Trial Phase 3  

Genentech, Inc. ..................................................... $87,338  
Clinical Trial Agreement Phase 3  

Adamas Pharmaceuticals, Inc. ........................................ $63,031  
Clinical Trial Agreement Phase 2  

Biogen Idec ......................... $55,942  
Clinical Trial Agreement Phase 3  

Biogen Idec ....................................................... $54,523  
Clinical Trial Agreement Phase 3  

Genzyme Corporation .................................................. $40,361  
Clinical Trial Agreement Phase 4  

PPD Development .................................................... $37,605  
Clinical Trial Phase 3  

Genzyme Corporation .................................................. $25,292  
Clinical Trial Agreement Phase 3  

Novartis ............................................................. $3,900  
Clinical Trial Agreement Phase 3  

LESLIE MORRISON  
University of California, San Francisco ......................... $158,805  
The Brain Vascular Malformation Consortium: Predictors of Clinical Course  

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

SUROJIT PAUL  
NIH/National Institute of Neurological Disorders and Stroke .... $330,313  
Role of Brain-Specific Tyrosne Phosphatase STEP in Neuroprotection and Death  

JOHN PHILLIPS  
The Mind Research Network .......................................... $100,745  
MRN Medical Director  

New Mexico School for the Blind & Visually Impaired ............... $10,000  
Neuro Imaging and Visual Improvement  

RANJANA PODDAR  
NIH/National Institutes of Health ................................... $330,313  
Hyperhomocysteinemia and Ischemic Stroke  

STEFAN POSSE  
NIH/National Institutes of Health ................................... $263,786  
High-Speed fMRI Resting State Connectivity
GARY ROSENBERG
NIH/National Institutes of Health ........................................... $484,215
Biomarkers for White Matter Injury in Mixed and Vascular Cognitive Impairment
NIH/National Institute of Neurological Disorders and Stroke ........ $330,495
White Matter Hypoxia in a Novel Model of MMP-Mediated Inflammation in SHR/SP
The Mind Research Network ................................................ $147,874
MRN Administrative Operations
U.S.-Israel Binational Science Foundation ......................... $25,737
BBB Permeability Abnormalities and Post-Stroke Cognitive Decline
JENNIFER ANN VICKERS
New Mexico Department of Health ........................................ $5,275
Children's Medical Services (FY16)
YI YANG
NIH/National Institute of Neurological Disorders and Stroke .......... $189,219
Longitudinal Monitor of Microglia Activation After Stroke with SPION-Enhanced MRI
Neurosciences
JONATHAN BRIGMAN
University of California, San Diego ..................................... $152,892
Neuropsychological Biomarkers of Behavioral Dimensions
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $43,576
Altered Neuronal Dynamics of Executive Control After Prenatal Alcohol Exposure
ERIN MILLIGAN
NIH/National Institute on Alcohol Abuse and Alcoholism .......... $182,760
Chronic Neuropathic Pain, Glial-Immune Responses and Fetal Alcohol Exposure
NORA PERRONE-BIZZOZERO
NIH/National Institute on Drug Abuse ..................................... $449,098
Competing Roles of MicroRNAs and RNA-Binding Proteins in Drug Addiction
University of South Carolina ............................................... $233,024
Antagonistic Roles of HuD and KSRP for mRNA Stability in Neuronal Growth
University of South Carolina ............................................... $226,222
Antagonistic Roles of HuD and KSRP for mRNA Stability in Neuronal Growth
NIH/National Institute on Drug Abuse ..................................... $32,456
Opposing Roles of miR-495 and HuD in Addiction-Related Plasticity and Behavior
DANIEL SAVAGE
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $1,661,914
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions
NIH/National Institutes of Health ........................................ $307,539
Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission
NIH/National Institute on Alcohol Abuse and Alcoholism ........ $75,562
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions
BILL SHUTTLEWORTH
NIH/National Institute of General Medical Sciences ............... $2,438,975
University of New Mexico Center for Brain Recovery and Repair
CARLOS VALENZUELA
NIH/National Institute on Alcohol Abuse and Alcoholism .......... $335,472
Alcohol and Developing Neuronal Circuits
NIH/National Institute on Alcohol Abuse and Alcoholism .......... $146,287
Alcohol Research Training in Neurosciences
JASON WEICK
NIH/National Institute of Neurological Disorders and Stroke ........ $95,523
Light-Based Regulation of Autophagy Processing to Target Pathological Forms of Tau
Neurosciences
DENIS BRAGIN
NIH/National Institute of Neurological Disorders and Stroke ........ $233,479
Stroke Treatment by Modulation of Hemodynamics with Soluble Drag-Reducing Molecules
ANDREW CARLSON
Edge Therapeutics ............................................................ $167,550
Clinical Trial Agreement Phase 3
Johns Hopkins University .................................................... $130,458
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
Covidien ............................................................... $6,400
Clinical Trial Close-Out Fees
JEFF HILL
National Multiple Sclerosis Society ....................................... $44,000
Investigation of Novel Therapeutic Peptide in an Experimental Autoimmune Encephalomyelitis Multiple
JEREMY LEWIS
InVivo Therapeutics Corporation ......................................... $160,510
Clinical Trial
JOANNA KATZMAN
HHS/Indian Health Service ................................................ $291,654
UNM Pain Center Educational Collaboration with Indian Health Services
Kaleo Pharmaceuticals ....................................................... $176,000
Clinical Trial Phase 4
New Mexico Department of Health ........................................ $10,550
UNM Chronic Pain Clinic Naloxone Co-Prescription Pilot Project
EDWIN NEMOTO
Rio Grande Neurosciences, Inc .......................................... $26,359
For Primary Cell Multiplex Analysis of Multiple Treatments of PEMF
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<td>Rio Grande Neurosciences, Inc. PEMF Mechanisms of Action in OGD</td>
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<td>Tamara Roitbak</td>
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AARON NEUMANN
NIH/National Institutes of Health .................................. $408,606
Nano and Microscale Molecular Machines for Innate Immune Sensing of Candida
American Heart Association .............................................. $140,000
Antimicrobial Countermeasures Against Fungal Biofilms: Preventing Catheter-Associated Cardiovascular Infection
American Association of Immunologists .................................. $1,500
Travel for Techniques Award Program-AAI

LARRY SKLAR
NIH/National Cancer Institute ......................................... $300,525
Illuminating the Druggable Genome Knowledge Management Center
University of Otago ............................................................... $8,853
Nematode Efflux Pump Inhibitor Screen

ANGELA WANDINGER-NESS
NIH/National Institute of General Medical Sciences ................. $874,002
Academic Science Education and Research Training
Boston College ................................................................. $187,500
IRACDA Plus
Boston College ................................................................. $62,500
IRACDA Plus

COSETTE WHEELER
NIH/National Institute of Allergy and Infectious Diseases .......... $2,585,548
Epidemiology and Prevention Interdisciplinary Center for Sexually Transmitted Infections
NIH/National Institute of Allergy and Infectious Diseases .......... $2,549,964
Epidemiology and Prevention Interdisciplinary Center for Sexually Transmitted Infections
Genera Biosystems Limited ............................................... $36,000
PapType Performance in a United States-Based Screening Population

BRIDGET WILSON
Los Alamos National Laboratory ........................................ $112,750
Three-Dimensional Molecular Tracking of IgE-FcRI in Live Cells
NIH/National Institutes of Health ........................................ $30,343
Validation of the Pre-BCR Signaling Complex in Pre-B ALL Cell Model by Two-Color Single-Particle Tracking and Peptidomimetic Inhibition

MOHAMMAD VASEF
TriCore Reference Laboratories ........................................ $13,500
Professional Services Agreement Tricore/Quorum

SHIRLEY ABRAHAM
Oregon State University ................................................... $34,250
Regional Hemophilia Network-Mountain States

TANYA BAKER-MCCUE
New Mexico Division of Vocational Rehabilitation ................. $410,000
DVR Project Search
New Mexico Division of Vocational Rehabilitation ................. $325,000
DVR Partners for Employment
New Mexico Developmental Disabilities Planning Council .......... $85,000
Information Network-Medicaid
New Mexico Developmental Disabilities Planning Council .......... $75,000
Information Network-Medicaid
New Mexico Developmental Disabilities Planning Council .......... $15,000
School-to-Work Alliance

KOH BOAYUE
St. Baldrick's Foundation ................................................. $58,860
St. Baldrick's Infrastructure Development Grant
Children's Hospital of Philadelphia ..................................... $1,500
Clinical Trial Phase 3 (Industry Flow-Through Non-Profit)
Children's Hospital of Philadelphia ..................................... $1,334
Clinical Trial Phase 3 (Federal Flow-Through Non-Profit)

LAURA CAFFEY
New Mexico Department of Health ................................... $4,774
Summer Asthma Institute

ANTHONY CAHILL
El Pueblo Health Service .................................................. $115,000
Interprofessional Care: Oral Care in Primary Care
New Mexico Developmental Disabilities Planning Council .......... $10,000
Stipends for the Southwest Disability Planning Council

LORETTA CORDOVA DE ORTEGA
Truman Health Services ................................................... $25,000
Services for Comprehensive Hemophilia Treatment Center
PHC-Las Cruces, Inc. ............................................................ $6,394
Professional Services/Consultations (w/BAA)
Mountain View Regional Medical Center ................................ $2,500
Professional Services

THERESA CRUZ
New Mexico Department of Health ................................... $132,854
SNAP-ED Evaluation
New Mexico Department of Health ................................... $100,000
PRC Sexual Violence Prevention Technical Assistance Project
Presbyterian Healthcare Services ......................................... $98,103
REACH Evaluation

LEA DAVIES
HHS/Health Resources and Services Administration ............... $340,000
New Mexico Pediatric Pulmonary Center
HHS/Health Resources and Services Administration ............... $50,000
PPC-Administrative Supplement Grant: Making Lifelong Connections
SALLY DAVIS
HHS/Centers for Disease Control and Prevention .................. $373,507
Village Interventions and Venues for Activity II

HHS/Centers for Disease Control and Prevention .................. $359,493
PRC CORE

New Mexico Department of Health ................................ $323,779
Teen Outreach Program

HHS/Centers for Disease Control and Prevention .................. $80,000
NOPREN Early Childcare Settings Serving Southwest American Indians and
Hispanic Populations SIP 14-027

New Mexico Department of Health ................................ $20,000
Implementing Evidence-Based Recommendations

United Way .............................................................. $11,200
Promoting Healthy Lives

TARA LYNN DUPTON
New Mexico Department of Health ................................. $118,000
Developmental Care Continuity Program (Fee for Service)

New Mexico Department of Health ................................ $70,640
Developmental Care Continuity Program (Cost Reim)

GLENDA FALLAS
New Mexico Department of Health ................................ $220,895
Social Marketing

RANDY HEIDENREICH
Northern Navajo Medical Center ..................................... $4,800
Provide On-Site Pediatric Genetic Clinic Services for the
Northern Navajo Medical Center (Shiprock)

SANDRA HEIMERL
Association of Maternal and Child Health Programs ........... $20,000
New Mexico Act Early State Systems Team

New Mexico Developmental Disabilities Planning Council .. $2,500
Legislative Advocacy Workshop

ANDREW HSI
New Mexico Department of Health ................................. $86,500
DDSD Family Infant Toddler Program (BAA)

PATRICIA KEANE
New Mexico Human Services Department ......................... $437,581
CHILE Plus

ALBERTA KONG
Fluor Federal Solutions, LLC ................................. $77,376
Medical Services Agreement (Albuquerque Job Corps)

JANE McGrath
New Mexico Department of Health ................................. $1,840,000
Albuquerque School-Based Health Center

New Mexico Human Services Department ....................... $1,100,000
Envision NM: The Initiative for Child Healthcare Quality (FY16)

New Mexico Department of Health ................................ $800,000
School-Based Health Center Quality

New Mexico Human Services Department ....................... $259,817
School-Based Health Center Behavioral Health Quality Improvement (FY16)

New Mexico Department of Health ................................ $78,500
New Mexico Healthy Hospital Initiative (Analysis of Childhood Obesity Project)

New Mexico Department of Health ................................ $66,465
State Innovation Model Design: Patient-Centered Medical Home Project

New Mexico Public Education Department ....................... $50,000
GRADS Program

New Mexico Department of Health ................................ $48,400
Race to the Top Early Learning Challenge

New Mexico Department of Health ................................ $47,666
Envision Quality Improvement Project

Symserve ............................................................... $30,224
Home-Visiting Software Project

New Mexico Department of Health ................................ $30,000
Focus Early Intervention Program

New Mexico Department of Health ................................ $25,662
Developmental Screening Initiative Archived Telehealth Courses for
Continuing Education Credit

New Mexico Department of Health ................................ $18,199
Analysis of Childhood Obesity Project (FY16)

Apex Education ......................................................... $15,000
STD Screening and Assessment Tools for an Adolescent Population (Year 2)

New Mexico Department of Health ................................ $8,333
Envision Quality Improvement Project

SHIRAZ MISHRA
NIH/National Institutes of Health ................................. $584,974
Enhancing Prevention Pathways Towards Tribal Colorectal Health

NIH/National Institutes of Health ................................. $247,219
SEPA in New Mexico

JANE McGrath
New Mexico Department of Health ................................. $2,611,080
Medically Fragile Waiver

New Mexico Human Services Department ....................... $2,000,000
Improving Quality (75/25 and 50/50 Medicaid Match) Supporting Child
Development Through Evidence-Based Practices (FY16)

New Mexico Human Services Department ....................... $2,000,000
Improving Quality (75/25 and 50/50 Medicaid Match) Supporting Child
Development Through Evidence-Based Practices (FY17)
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<th>Organization</th>
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<tr>
<td>New Mexico Department of Health</td>
<td>$1,239,750</td>
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<td>Part B and Part C (BAA)</td>
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<td>Parents as Teachers</td>
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**ROBIN OHLS**

- University of Washington: $66,870
  - Preterm Epo Neuroprotection Trial Capitation
- University of Washington: $43,711
  - Preterm Epo Neuroprotection Trial-Fixed Price

**PAT OSBOURN**

- U.S. Department of Education: $100,912
  - Project for New Mexico Children Who Are Deaf-Blind
- New Mexico Developmental Disabilities Planning Council: $62,500
  - Partners in Policymaking
- Rio Rancho Public Schools: $31,130
  - Rio Rancho Consultation
- Roswell Independent Schools: $30,851
  - Roswell Consultants
- Albuquerque Public Schools: $22,220
  - Albuquerque Public Schools Consultations (w/BAA)
- Central Consolidated School District: $17,460
  - Central Consolidated Schools Consultations
- Central Consolidated School District: $10,521
  - Central Consolidated Schools Consultations
- Estancia Valley Classical Academy: $2,994
  - Estancia Valley Consultations

**LINDA P. PARHAM**

- University of Southern California: $26,598
  - Development of Teaching Materials in Support of Sensory Integration and Praxis Test
- University of Southern California: $8,866
  - Development of Teaching Materials in Support of Sensory Integration and Praxis Test

**MARK PEDROTTY**

- Hidalgo Medical Services: $25,000
  - Telemedicine Services

**LINDA PENALOZA**

- New Mexico Public Education Department: $140,875
  - ESHE Evaluation
- New Mexico Department of Health: $35,000
  - HEART

**HENGAMEH RAISY**

- Vertex Pharmaceuticals Incorporated: $50,000
  - Clinical Trial Agreement Phase 2
- Celtaxsys: $29,752
  - Clinical Trial Agreement Phase 2
- AstraZeneca Pharmaceuticals, LP: $29,598
  - Clinical Trial Agreement Phase 3
- Vertex Pharmaceuticals Incorporated: $21,148
  - Clinical Trial Phase 3
- Vertex Pharmaceuticals Incorporated: $17,790
  - Clinical Trial Phase 4

**MARY RAMOS**

- W.K. Kellogg Foundation: $810,000
  - A Hospital-Based Quality Improvement Initiative to Reduce Breastfeeding Disparities
LESLEY STRICKLER
New Mexico Department of Health .......................... $352,620
Para Los Niños

New Mexico Crime Victims Reparation Commission .............................. $34,201
Para Los Niños Crisis Intervention Services

New Mexico Crime Victims Reparation Commission .............................. $29,313
Adolescent Continuity Clinic for Education on Self Safety

JENNIFER ANN VICKERS
New Mexico Department of Health .......................... $932,391
Continuum of Care

New Mexico Department of Health .......................... $760,000
Waiver Outside Review

New Mexico Department of Health .......................... $175,200
Waiver Outside Review FY16 (Supplement)

New Mexico Department of Health .......................... $52,750
Continuum of Care-Mortality (BAA)

KRISTI WATTERBERG
NIH/National Heart, Lung, and Blood Institute .......................... $388,493
Adrenal Function and Adverse CV Outcomes at Age 6
After Extremely Preterm Birth

NIH/Eunice Kennedy Shriver National Institute of Child Health
and Human Development .............................................. $285,855
Cooperative Multicenter Neonatal Research Network

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

Wayne State University .............................................. $2,507
Effect of Hydrocortisone on the Cardiac Mass of
Premature Incubated Infants

STUART WINTER
New Mexico Department of Health .......................... $18,000
ACA-Camp Enchantment

CRAIG WONG
The Children's Mercy Hospital .......................................... $16,910
Ckid Steering Committee

Nationwide Children’s Hospital .......................................... $15,500
Cure Glomerulonephropathy

The Children’s Mercy Hospital .......................................... $8,770
Ckid Clinical

Psychiatry and Behavioral Sciences

CHRISTOPHER ABBOTT
The Mind Research Network .......................................... $188,077
Project 5-Abbott-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms and Biomarkers

CHERYL AINE
The Mind Research Network .......................................... $57,662
MDA-Aine-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms and Biomarkers (COBRE II)

The Mind Research Network .......................................... $9,311
ADA-Aine-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms and Biomarkers (COBRE II)

DEBORAH ALTSCHUL
W.K. Kellogg Foundation .......................................... $1,148,886
New Mexico Learning and Evaluation Consortium

New Mexico Behavioral Health Collaborative ................................ $257,158
NM SBIRT

W.K. Kellogg Foundation .......................................... $113,836
Maximizing New Mexican Native Children Wellness

San Felipe Pueblo ................................................ $112,743
KEYWAH II

New Mexico Children, Youth & Families Department .................. $36,080
Mobile Mental Health First Aid

PAMELA ARENELLA
American Psychiatric Association .................................. $24,096
APA Minority Fellowship

JERALD BELITZ
HHS/Health Resources and Services Administration ................ $107,895
Psychology Internship Expansion Grant

JEANNE BERREITER
New Mexico Department of Health ................................ $220,000
Mescalero School-Based Health Centers

New Mexico Department of Health ................................ $75,000
BHSD NM Suicide Prevention

New Mexico Department of Health ................................ $75,000
BHSD NM Suicide Prevention

San Felipe Pueblo ................................................ $69,668
Katsishyta Home Visiting

Native American Professional Parent Resources, Inc .................. $55,501
Home Visiting

OptumHealth New Mexico .......................................... $25,000
BHSD NM Suicide Prevention Supplement

CAROLINE BONHAM
Albuquerque Area Indian Health Service ......................... $811,605
Albuquerque Area IHS Center for Telehealth Excellence Project FY16

New Mexico Human Services Department ........................ $500,000
CBHTR II (w/BAA)

New Mexico Behavioral Health Collaborative ..................... $151,843
EARLY Clinic
NIH/National Institute on Drug Abuse ........................................... $7,500
NIMH Outreach Partnership

JUAN BUSTILLO
Janssen Scientific Affairs, LLC ................................................... $651,068
Clinical Trial Agreement Phase 3

The Mind Research Network ......................................................... $344,937
ACAM-Bustillo-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms and Biomarkers (COBRE)

The Mind Research Network ......................................................... $49,514
A Multidimensional Approach for Cognitive Control Deficits
in Psychopathology

RICHARD CAMPBELL
New Mexico Governor’s Commission on Disability ......................... $25,000
Youth Concussion Surveillance Tool

ANNETTE CRISANTI
OptumHealth New Mexico ......................................................... $209,831
Reducing Homelessness among Persons with Behavioral Health Problems
City of Albuquerque ............................................................... $131,000
Justice and Mental Health Collaboration Program
City of Albuquerque ............................................................... $101,796
Justice and Mental Health Collaboration Program
Patient-Centered Outcomes Research Institute ............................ $40,121
Peer Review Modification ACA-Patient-Centered Trauma Treatment
for PTSD and Substance Abuse
OptumHealth New Mexico ......................................................... $20,000
Optum Health: Adult Transformation: Healthy Homes
OptumHealth New Mexico ......................................................... $20,000
Healthy Homes Dissemination

ERIK EHARDT
The Mind Research Network ......................................................... $15,535
BNI-Erhardt-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms and Biomarkers

MOLLY “MARTHA” FAULKNER
HHS/Substance Abuse and Mental Health Services Administration .......................... $289,985
Health Professions Student Training (UNM-RUHPS)

DAVID GRAEBER
Bernalillo County ...................................................................... $76,530
Professional Physician Services Bernalillo County Youth Services Center

PAULA HENSLEY
INNO Clinical Outcomes, LLC ..................................................... $114,088
SD-809-C20 and C23 Amend #1

BRIAN ISAKSON
HHS/Substance Abuse and Mental Health Services Administration ........................ $399,635
COPE Primary Care Integration
OptumHealth New Mexico ......................................................... $61,000
Optum: Jail Diversion Project
First Choice Community Healthcare .................................................. $25,000
First Choice Community Healthcare Consulting Psychiatry Services

AVRON KRIECHMAN
New Mexico Department of Health .............................................. $113,705
Telehealth School-Based Health Centers

STEPHEN LEWIS
Feinstein Institute for Medical Research ....................................... $7,377
ACA-Improving Care and Reducing Cost

JULIE SALVADOR
New Mexico Children, Youth & Families Department ....................... $170,902
Communities of Care-VSS Supplement
New Mexico Children, Youth and Families Department ................. $146,392
Communities of Care (CYFD SOC Expansion)

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

ROBERT THOMA
The Mind Research Network ......................................................... $98,965
Project 4-Thoma-Multimodal Imaging of Neuropsychiatric Disorders:
Mechanisms and Biomarkers

CLAIRE WILCOX
NIH/National Institutes of Health ............................................... $180,013
Neural Mechanisms of Change During Alcohol Use
Disorder Treatment with Prazosin
The Mind Research Network ......................................................... $14,907
tDCS and Cognitive Retraining to Augment Pharmacotherapy for the
Treatment of Nicotine Dependence

Radiology

LOREN KETAI
NIH/National Institutes of Health ............................................... $156,504
Brain-Centered Therapy Versus Medication for
Urgency Urinary Incontinence: An RCT (MPI)

GARY MLADY
U.S. Department of Veterans Affairs ............................................ $1,283,245
Radiological and Nuclear Medicine Diagnostics and Therapy Services
New Mexico Department of Health ............................................... $39,879
Breast and Cervical Cancer Early Detection Program Project
Mobile Imaging Associates ......................................................... $25,000
Professional Services

REED SELWYN
New Mexico Economic Development Department .......................... $50,000
Closing the Loop Between Impact Data and Radiological Assessments
EDWARD AUYANG
Northwestern University ............................................. $2,750
Multicenter Study of Operative Autonomy in General Surgery Residents
Using SIMPL, the Modified Procedural Autonomy and Supervision System

ARUP DAS
New Mexico Commission for the Blind .................................. $85,000
Emergency Eye Care Program

New Mexico Veterans Affairs Medical Center .......................... $68,479
IPA: Carolina Franco Nitta

New Mexico Commission for the Blind .................................. $60,000
Emergency Eye Care Program

Diabetic Retinopathy Clinical Research Network .......................... $31,037
Intravitreous Anti-VEGF Treatment for Prevention of Vision-Threatening
Diabetic Retinopathy in Eyes at High Risk (Protocol W)

DUSANKA DERETIC
NIH/National Institutes of Health ..................................... $378,438
Rhodopsin Trafficking and Photoreceptor Membrane Renewal

KATHERINE MORRIS
American Cancer Society ................................................... $729,000
Targeting G-CSF Receptor and Tumor Associated Neutrophils in Colon Cancer

Mountain West Clinical Translational Research-Infrastrucure Network .......................... $68,200
G-CSF and G-CSFR as Novel Prognostic Biomarkers in Colorectal Cancer

Mountain West Clinical Translational Research-Infrastrucure Network .......................... $3,300
G-CSF and G-CSFR as Novel Prognostic Biomarkers in Colorectal Cancer

JOHN RUSSELL
Kindred Hospital (Transitional Hosp Corp of NM) ....................... $25,000
Professional Service Agreement

Eye Associates of New Mexico ............................................. $25,000
Professional Services

UNIVERSITY OF NEW MEXICO HOSPITAL

RICHARD D’ANGIO
New Mexico Department of Health ........................................ $5,996
UNMH Pharmacy Naloxone Procurement Project

WENDY HINE
New Mexico Department of Health ........................................ $85,000
Breast and Cervical Cancer Early Detection Program-Screening Services
Case Manager Project

FRANCES (KATHY) LOPEZ-BUSHNELL
New Mexico Department of Health ........................................ $20,000
Youth Development Pathways to Promote Health in Rural New Mexico Projects

STEVE MCKERNAN
City of Albuquerque ....................................................... $183,000
Gang Prevention Program FY16

City of Albuquerque ....................................................... $161,970
City of Albuquerque Primary Care Services

New Mexico Children, Youth & Families Department ....................... $54,000
YCHC-Home Visits and Education FY16

State of New Mexico ....................................................... $30,625
Home Visits and Education

New Mexico Children, Youth & Families Department ....................... $22,500
YCHC-Home Visits and Education

First Nations Community Healthsource, Inc. .............................. $25,000
UNM Care Program

ROBERT PERRY
New Mexico Department of Health ........................................ $50,000
Ebola Preparedness Activities

New Mexico Department of Health ........................................ $10,000
Hospital Preparedness Services for UNM

New Mexico Department of Health ........................................ $10,000
Carrie Tingley Hospital Preparedness Services

New Mexico Department of Health ........................................ $10,000
Hospital Preparedness Services for UNM/Behavioral Health

MICHAEL RICHARDS
State of New Mexico ....................................................... $707,640
Clinical Services-UNMH and SRMC

UNIVERSITY OF NEW MEXICO MEDICAL GROUP

ANTHONY MASCIOTRA
Albuquerque Area Indian Health Service ............................... $25,000
Provider Services Agreement w/SRMC

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

ABQ Health Partners, LLC ................................................ $25,000
Professional Service Agreement-Emergency Surgical Services

JAMIE SILVA-STEELE
New Mexico Department of Health ........................................ $470,530
Truman Health Services Provider

Sandoval Regional Medical Center ....................................... $25,000
MSA SRMC and UNMMG Schedule VI Director of IP and OP Providers
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Please contact Bill Uher for more information
bill.uher@unmfund.org or 505.277.4078