RESEARCH ANNUAL REPORT 2016

TRANSFORMING RESEARCH
FOR HEALTHIER COMMUNITIES
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-changers 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 help 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 expect 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.
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.”

Principal Investigator
Bill Shuttleworth, PhD
Director, UNM Brain & Behavioral Health Institute, Regents’ Professor, Department of Neurosciences
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 Araihazar, 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.”
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.”
DIFFERENT CANCER, DIFFERENT TREATMENT

USING GENOMIC SEQUENCING TO BEAT CANCER

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.

“We have the method to separate out the vascular, the Alzheimer’s and the ‘walking worried,’” Rosenberg says.

“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.

“Ours 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.”

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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.”

Principal Investigator
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College of Pharmacy

Grant
Wireless Medication Packaging Research

Grantor
ASD Healthcare
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.

“The KL-2 fits a niche that had not been in existence,” says Deborah L. Helitzer, ScD, founding dean and professor in the College of Population Health. The program provides up to five years of economic support, including paying for 75 percent of a researcher’s salary, and a host of mentoring opportunities.

“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 complete roster of scholars includes:

Christopher Abbott, MD, Psychiatry
Ellen Beswick, PhD, Microbiology and Genetics
Dawn Delfin, PhD, Pharmacy
Darrell Dinwiddie, PhD, Pediatrics
Jon Femling, MD, PhD, Emergency Medicine
Brandi Fink, PhD, Psychiatry
Alberta Kong, MD, Pediatrics
Sarah Pirio Richardson, MD, Neurology
Akshay Sood, MD, MPH, Internal Medicine
Sonlee West, MD, Surgery
Sarah Yousoff, 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.”
2016 Excellence in Research Awards

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  
Basic Science Research

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 Lives

RESEARCH AWARDS

% Employed in New Mexico

RESEARCH AWARDS
UNM Health Sciences Training Grants

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

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
T32 Recipient
Role of acid-sensing ion channels in acute hypoxic pulmonary vasoconstriction
Mentor: Nikki Jernigan, PhD

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 Delfín, 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
T32 Recipient
Regulation of endothelial function by acid sensing ion channel 1
Mentor: Nikki Jernigan, PhD

Amy Gardiner, PhD
F31 Recipient
Competition between RNA-binding proteins and microRNAs in the control of gene expression
Mentors: Rebecca Hartley, PhD and Olivier Rixe, MD

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
K12 Scholar, NIH/IRACDA
Developing novel vaccines using virus-like particles to target Neisseria gonorrhoeae; Evaluating sexual health within tribal communities by determining STI prevalence and risk factors
Mentor: Bryce Chackerian, PhD

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
T32 Recipient
Utility of small molecule inhibitors of cAMP efflux for translation as leukemia therapeutics
Mentors: Larry Sklar, PhD and 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
T32 Recipient
K05 Scholar, NIH/NCI
Identification of endogenous regulators of cystathionine gamma lyase 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, MD; Andrea Allan, PhD; Steve Bellinski; Angela Wandinger-Ness, PhD

Joshua Sanchez  
T32 Recipient, NIH  
*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  
K12 Scholar  
*The effects of EGFR activation on endosomal transport*  
Mentor: Angela Wandinger-Ness, PhD

Christina Termeni, 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*  
Mentor: Eric Prossnitz, PhD

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*  
Mentor: Matt Campen, PhD

Unavailable for photos: Laura Cross, Michela Dell Otco, Adriana Luna Leon and Julia Pinner
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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
LRRI/BSGP Fellowship Agreement

Lovelace Respiratory Research Institute ................................ $4,737
LRRI/BSGP 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
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

NANCY 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
ESZTER ERDEI
Black Hills Center for American Indian Health ...................... $105,617
NARCH 7: Complex Metal Exposure and Immune Status on the Cheyenne River

Boston University ................................................... $23,048
Prevalence and Risk Factors for Chronic Kidney Disease of Non-Traditional Etiology

LINDA FELTON
U.S. Department of Veterans Affairs ................................ $77,720
Formulation and Batch Records for the VA Medical Center in Albuquerque, New Mexico

CHANGJIAN FENG
NIH/National Institutes of Health ................................ $454,377
Mechanism of Electron Transfer in Nitric Oxide Synthases

LARRY GEORGOPoulos
First Choice Community Healthcare ....................... $177,280
Pharmacist Consultant Agreement

NM Medical Group ................................................ $100,000
Molina Telephonic MTM Agreement

Prime Therapeutics ................................................ $25,000
Professional Service Agreement

Prime Therapeutics ................................................ $25,000
Professional Services Agreement

First Nations Community Healthsource, Inc................................. $5,000
First Nations Community Healthsource, Inc.

DONALD GODWIN
HHS/Health Resources and Services Administration ................. $8,302
Health Professional Student Loan

PAMELA HALL
NIH/National Institutes of Health ................................. $189,375
VLP-Based Vaccines for Targeting Staphylococcus Aureus-Secreted Virulence Factors

University of Kansas ................................................. $83,325
Mechanistic Control of Metabolism and Virulence by Fatty Acid Kinase in MRSA

AJNA HAMIDOVIC
NIH/National Institute of Allergy and Infectious Diseases ........ $74,367
Intranasal Insulin Treatment for Weight Management During Smoking Cessation

Laurie Hudson
NIH/National Institutes of Health ................................. $313,498
Zinc Chemoprevention of Arsenic Co-Carcinogenesis

NIH/National Institute of Environmental Health Sciences .... $356,830
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins

Johnnye Lewis
HHS/Centers for Disease Control and Prevention ............... $1,000,000
A Prospective Birth Cohort Study in the Navajo Nation

NIH/National Institute of Environmental Health Sciences .... $700,000
Center for Native American Environmental Health Equity Research

NIH/National Institute of Environmental Health Sciences .... $700,000
Center for Native American Environmental Health Equity Research

U.S. Environmental Protection Agency .......................... $300,000
Center for Native American Environmental Health Equity Research

University of Montana ................................................. $164,219
Wood Stove Interventions and Child Respiratory Infections in Rural Communities

University of Montana ................................................. $162,659
Wood Stove Interventions and Child Respiratory Infections in Rural Communities

Jim Liu
NIH/National Institute of Environmental Health Sciences .... $356,830
Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins (MPI)

University of Louisville .............................................. $96,596
Particulate Cr(VI) Toxicology in Human Lung Epithelial Cells and Fibroblasts

Jason McConville
ASD Healthcare ................................................... $135,844
Wireless Medication Packaging Research

Renee-Claude Mercier
TriCore Reference Laboratories ................................ $76,844
Pharmacy Residency Affiliation Agreement

TriCore Reference Laboratories ................................ $54,094
Pharmacy Residency Affiliation Agreement

Jeffrey Norenberg
UT-Battelle/Oak Ridge National Laboratory ................... $64,254
DOE 225Ac Toxicity Dosimetry

invICRO ............................................................. $24,001
Task 33-HMPAO Pharmacokinetics Under Dynamic Influences (TO33)

New Mexico Consortium IAS ...................................... $22,508
Radiotherapy of Gram Negative Drug-Resistant Bacteria

Dennis Raisch
University of South Carolina ...................................... $30,337
Southern Oncology Network on Adverse Reactions

Jay Simon
Sandia National Laboratories ........................................ $2,800
SNL Isotopes Request

Mikiko Takeda
UCB Pharma, Inc. ..................................................... $3,350
MTM-like Patient Education and Adherence Program in Epilepsy

Graham Timmins
NIH/National Institute of Allergy and Infectious Diseases .... $226,938
Pyrazinamide Breath Test for TB
SABRINA SAMUDIO-RUZ
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

SCHOOL OF MEDICINE

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

Anesthesiology Department

EUGENE KOSHKIN
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

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

KARLET 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
IL 10 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

Jason Joyner, MS
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<td>The Natural History of Untreated Breast Cancer</td>
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<td>Anita Kinney</td>
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<td>Scott Ness</td>
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<td>Mutation and Target Genes in Adenoid Cystic Carcinoma</td>
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YEHUDA PATT
New Mexico Cancer Care Alliance ........................................ $3,840
Clinical Trial-Pilot

ERIK 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 ..................................... $81,460
Clinical Trial Subaward Phase 2

Amgen, Inc. .......................................................................... $74,835
Clinical Trial Agreement Phase 2

New Mexico Cancer Care Alliance ..................................... $70,712
Clinical Trial Agreement Phase 1

LARRY SKLAR
Weill Cornell Medical College ............................................. $169,600
Novel DNA Double Strand Break Repair Targeting Therapeutics for Cancer Treatment

Leidos, Inc. .......................................................................... $125,000
NCI Experimental Therapeutics Chemical Biology Consortium

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)

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
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
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?

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

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
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**DARREN BRAUDE**

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**JOY CROOK**

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**REBECCA FASTLE**

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14-34 Subcontract of CDC Award “Emergency Department Sentinel Network for Surveillance of Emerging Infections”

Olive View Medical Center-UCLA ........................................... $8,000
14-34 Subcontract of CDC Award “Emergency Department Sentinel Network for Surveillance of Emerging Infections”

Olive View Medical Center-UCLA ........................................... $3,000
Emergency Department Sentinel Network for Surveillance of Emerging Infections

**Andrew Harrell**
City of Albuquerque........................................................ $50,000
Albuquerque Fire Department

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

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

Bernalillo County Sheriff’s Department................................ $9,500
Professional Services Medical Director and SWAT Training

**Brian R. Moore**
State of New Mexico ....................................................... $49,185
Professional Service Agreement

**Grace (Joo-Hee) Park**
Wayne State University ................................................. $38,899
RNA Biosignatures

Wayne State University ....................................................... $28,314
RNA Biosignatures

**Michael Richards**
New Mexico Department of Health ........................................ $11,330
THINKFIRST Project

New Mexico Department of Health ........................................ $6,580
Rural Trauma Team Development Course Project

**Robert Sapien**
HRSA/Office of Rural Health Policy ........................................... $325,000
Child Ready: Building a Virtual Pediatric ER for Rural Communities

HRSA/Office of Rural Health Policy ........................................... $325,000
Child Ready: Building a Virtual Pediatric ER for Rural Communities

University of Arizona ........................................................ $214,255
EMSC: Pediatric Emergency Care Applied Research Network

**Chelsea White**
Bernalillo County ........................................................ $63,053
Medical Director

Ramah Navajo School Board, Inc., dba Pine Hill Health Center ........................................... $24,000
Medical Direction for the Ramah Navajo School Board

Western Refining Southwest, Inc........................................ $12,000
Professional Services Agreement

Cibola County ........................................................ $12,000
Professional Services Agreement

**Sally Bachofer**
HHS/Health Resources and Services Administration ........................................... $238,799
ACA-Residency Training In Primary Care (FY16)

**Antoinette Benton**
OptumHealth New Mexico .............................................. $219,450
Pre-Administration Screening and Resident Review

New Mexico Human Services Department ........................................... $169,400
Pre-Administration Screening and Resident Review (FY16)

OptumHealth New Mexico .............................................. $165,550
Pre-Administration Screening and Resident Review

**Lisa Cacari-Stone**
New Venture Fund ........................................................ $69,000
Evaluation Services-NCHE

Con Alma Health Foundation .............................................. $5,000
ACA-Policy Implementation Study

**Warren Heffron**
Bernalillo County ........................................................ $120,126
Professional Physician Services

Presbyterian Medical Services .............................................. $25,200
Professional Service Agreement

First Choice Community Healthcare ........................................... $13,356
Professional Service Agreement

HHS/Health Resources and Services Administration ........................................... $200,000
New Mexico Child Ready Program

HHS/Health Resources and Services Administration ........................................... $200,000
Child Ready: Expanding a Novel Community Self-Assessment Approach to Regionalization

HHS/Health Resources and Services Administration ........................................... $129,995
EMS for Children State Partnership Grant

Washington University School of Medicine in St. Louis ........................................... $82,814
Impact of Probiotic Treatment of Pediatric Gastroenteritis in the Acute-Care Setting

**Isaac Tawil**
DCI Donor Services ........................................................ $19,777
Medical Director Services

**Brandon Warrick**
U.S. Department of Justice .............................................. $32,156
Expert Witness Contract

U.S. Department of Justice .............................................. $19,294
Expert Witness Contract (Lee v. U.S.A.)

U.S. Department of Justice .............................................. $99
Expert Witness Contract

**Sally Bachofer**
HHS/Health Resources and Services Administration ........................................... $238,799
ACA-Residency Training In Primary Care (FY16)

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Professional Service Agreement

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Professional Service Agreement
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<td>Irena King</td>
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<td>Leslie Morrison</td>
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<td>Surojit Paul</td>
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<td>Biomarkers for White Matter Injury in Mixed and Vascular Cognitive Impairment</td>
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<th><strong>EDWIN NEMOTO</strong></th>
<th>Rio Grande Neurosciences, Inc.</th>
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<td>For Primary Cell Multiplex Analysis of Multiple Treatments of PEMF</td>
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Rio Grande Neurosciences, Inc. ...................................... $22,802
PEMF Mechanisms of Action in OGD

Rio Grande Neurosciences, Inc. ....................................... $8,250
Effect of POEMS on cGMP Response During OGD

Rio Grande Neurosciences, Inc. ....................................... $6,000
Effect of POEMS on cGMP Response During OGD

Tamara Roitbak
NIH/National Institute of Neurological Disorders and Stroke ........ $330,495
In Vivo Inhibition of Specific microRNAs to Support
Post-Stroke Revascularization

Huy Tran
University of Minnesota ............................................. $32,451
Antihypertensive Treatment of Acute Cerebral Hemorrhage II

University of Cincinnati............................................... $7,550
Clinical Trial Phase 4: ERICH-Per Patient

Howard Yonas
HHS/Centers for Medicare & Medicaid Services ................... $4,853,022
ACA-Access to Critical Cerebral Emergency Support Services HCIA2

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

Atox Bio Ltd. ............................................................. $103,450
Clinical Trial Agreement Phase 3

Miners Colfax Medical Center ........................................ $25,000
Neuro-Emergent Service Schedule (Part 2 of 3)

Miners Colfax Medical Center ........................................ $25,000
Straight Telemedicine Service Schedule (Part 3 of 3)

Atox Bio Ltd ............................................................... $18,240
Clinical Trial Agreement Phase 3

Obstetrics and Gynecology

Eve Espey
New Mexico Department of Health ................................ $140,000
Prenatal Medical Services Project

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

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

Crownpoint Healthcare Facility ...................................... $25,000
Navajo Area Indian Health Services (Crownpoint Service Unit) MFM Clinic

Society of Family Planning. ........................................ $12,008
Traveling for Rights

Yuko Komesu
NIH/National Center for Complementary and Integrative Health . . . $329,976
Brain-Centered Therapy Versus Medication for Urgency Urinary Incontinence: An RCT

Joseph Ogburn
ABQ Health Partners, LLC ........................................... $25,000
Professional Services Agreement

William Rayburn
Planned Parenthood of New Mexico ................................ $52,269
Professional Services

Rebecca Rogers
NIH/Eunice Kennedy Shriver National Institute of Child Health and Human Development .................. $314,042
RCT of Hypnotherapy vs Tolterodine for OAB: Voiding and Brain Activation Changes

Research Triangle Institute........................................ $153,097
Human Microbiome Study-ESTEEM

Women and Infants’ Hospital of Rhode Island ..................... $6,652
Improving Patient-Centered Care for Pelvic Floor Disorders Through Perioperative Peer Support

Rameet Singh
Society of Family Planning ...........................................$93,304
Nitrous Oxide Versus IV Sedation

New Mexico Department of Health ................................ $72,147
Family Planning and Vasectomy

New Mexico Department of Health ................................ $67,520
Tubal Ligation Sterilization Surgical Procedures

Jody Stonehocker
New Mexico Department of Health ................................ $918,609
Family Planning and Sexually Transmitted Disease Services Project

Office of the Medical Investigator

Heather Jarrell
American Academy of Forensic Sciences ......................... $3,000
Tau and TDP-43 Formation in the Central Nervous System of Infants and Children with Repetitive Head Injuries

Hannah Kastenbaum
New Mexico Public Safety Department ............................ $168,500
2015 Paul Coverdell Competitive

Kurt Nolte
U.S. Attorney’s Office ................................................ $15,000
Expert Witness Testimony for U.S. Attorney (FY 16)

Lori Proe
New Mexico Crime Victims Reparation Commission .............. $67,069
Grief Intervention for Homicide Survivors

New Mexico Department of Health ................................ $21,100
New Mexico Sudden Unexpected Infant Death Registry
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<td>Veena Singh</td>
<td>New Mexico Department of Health, Public Health Preparedness and Response for BioTerrorism</td>
<td>$24,998</td>
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<td>Ross Zumwalt</td>
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<td>AO Trauma Pelvis and Acetabular Course, Seattle, WA</td>
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<td>Beth Jones</td>
<td>Langford Consulting, Inc.</td>
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<td>Deana Mercer</td>
<td>Johns Hopkins University, The Major Extremity Trauma Research Consortium</td>
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<td>Robert Schenck</td>
<td>Santo Domingo Health Center, Professional Services Agreement</td>
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<td>University of Pittsburgh</td>
<td>Multicenter Clinical Trial to Assess Early vs. Delayed Timing for Surgical Treatment of Multiple Lig</td>
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<td>Selina Silva</td>
<td>Ann &amp; Robert H. Lurie Children's Hospital of Chicago</td>
<td>$600</td>
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<td>Jennifer Gillette</td>
<td>NIH/National Institutes of Health, Functional Role of Tetraspanin CD82 in Hematopoietic Stem Cell Interaction</td>
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<td>Daniel Wascher</td>
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<td>Elaine Bearer</td>
<td>NIH/National Institute of Mental Health, Live Imaging of Brain Circuitry in Mouse Models of PTSD</td>
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<td>Douglas Clark</td>
<td>TriCore Reference Laboratories, Medical Director and Professional Services</td>
<td>$2,547,459</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
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<td><strong>RANDY HEIDENREICH</strong></td>
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<td>Provide On-Site Pediatric Genetic Clinic Services for the Northern Navajo Medical Center (Shiprock)</td>
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Early Childhood Evaluation Program State General, Part B and Part C (BAA)

New Mexico Children, Youth & Families Department .................. $939,672
ACA-Nurse Family Partnership Program (FY17)

New Mexico Department of Health ........................................... $755,969
Administrative Support-Intensity Scale in New Mexico (FY15)

HHS/Administration for Community Living ................................... $547,000
University Center for Excellence in Development Disabilities Education

New Mexico Department of Health ........................................... $546,235
University Center for Excellence in Development Disabilities Education

Navajo Nation ........................................................................... $525,000
Growing in Beauty Program Therapy Services

New Mexico Children, Youth & Families Department .................. $344,554
ACA-Nurse Family Partnership Program (FY17)

New Mexico Department of Health ........................................... $283,077
Supports Intensity Scale

New Mexico Children, Youth & Families Department .................. $215,471
Supports Intensity Scale

New Mexico Children, Youth & Families Department .................. $150,000
Early Childhood Infrastructure Development (FY16)

New Mexico Children, Youth & Families Department .................. $93,000
Infant Mental Health Team (FY16)

New Mexico Children, Youth & Families Department .................. $76,000
Infant Parent Psychotherapy (FY16) (BAA)

New Mexico Department of Health ........................................... $73,437
Medically Fragile Case Management

New Mexico Department of Health ........................................... $73,437
NM SAFE Program

New Mexico Children, Youth & Families Department .................. $50,000
Infant Parent Psychotherapy (FY16 Supplement)

Robert T. Keeler Foundation ................................................... $25,000
Nurse-Family Partnership

New Mexico Children, Youth & Families Department .................. $20,000
Infant Parent Psychotherapy (FY16 Supplement)

Robert T. Keeler Foundation ................................................... $15,000
Parents as Teachers

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

Rio Rancho Independent Schools ........................................... $30,851
Rio Rancho 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 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 Agreement Phase 3

Vertex Pharmaceuticals Incorporated ...................................... $17,790
Clinical Trial Agreement Phase 4

MARY RAMOS
W.K. Kellogg Foundation ................................................... $810,000
A Hospital-Based Quality Improvement Initiative to Reduce Breastfeeding Disparities
LESLIE 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
Cktd Steering Committee
Nationwide Children’s Hospital ............................................. $15,500
Cure Glomerulonephropathy
The Children’s Mercy Hospital ............................................. $8,770
Cktd 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 BEREITER
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
Katishtya 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

Lisa Davidson and Praveen Paudel
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 ERHARDT**
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 GRAEBE**
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

**AYRON 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-YSS Supplement

New Mexico Children, Youth and Families Department ........... $146,882
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
Surgery

**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-Infrastructure Network ......................................... $68,200
*G-CSF and G-CSFR as Novel Prognostic Biomarkers in Colorectal Cancer*

Mountain West Clinical Translational Research-Infrastructure 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*

**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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bill.uher@unmfund.org or 505.277.4078