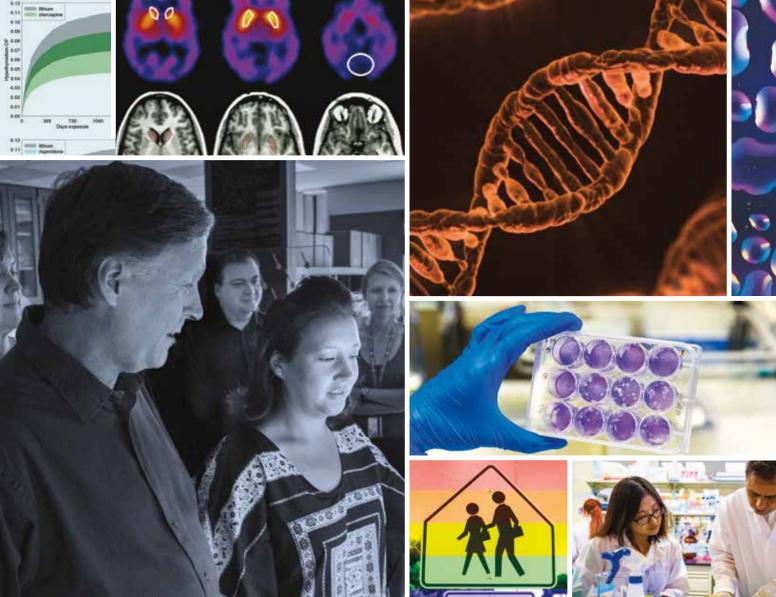
RESEARCH ANNUAL REPORT 2016

# TRANSFORMING RESEARCH FOR HEALTHIER COMMUNITIES

aripiprazole

carbamazepine



# University of New Mexico Health Sciences Center Vision, Mission and Core Values

#### **VISION**

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

#### **MISSION**

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

#### **CORE VALUES**

The UNM Health Sciences Center's most important value is a steadfast duty to improve the health of all New Mexicans. We will serve our patients and the public with **integrity**, **accountability** and the highest level of **professionalism**. We will strive as an institution and as individuals to recognize, cultivate and promote all forms of **diversity**; to fully understand the health needs of our communities and to advance clinical, academic and research **excellence**. We are committed to performing our duties with **compassion** and **respect** for our patients, learners and colleagues.



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#### FROM THE CHANCELLOR FOR HEALTH SCIENCES



Paul B. Roth, MD, MS



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.



# FROM THE EXECUTIVE VICE CHANCELLOR AND VICE CHANCELLOR FOR RESEARCH

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.

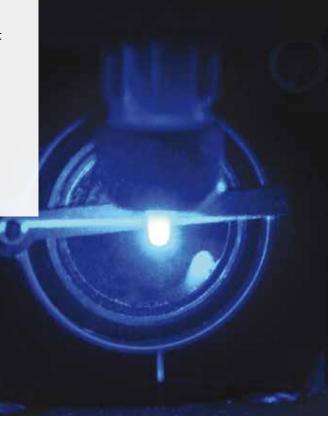
That's why we are redoubling our efforts to continue to grow our research mission and increase our work with private sector partners to bolster New Mexico's biotechnology infrastructure.

We know we can make a difference.



Richard S. Larson, MD, PhD







#### FROM THE DEAN OF THE COLLEGE OF NURSING



Nancy Ridenour, PhD, RN, APRN, BC, FAAN



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.



#### FROM THE DEAN OF THE COLLEGE OF PHARMACY



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.



Lynda S. Welage, PharmD, FCCP







#### FROM THE DEAN OF THE COLLEGE OF POPULATION HEALTH



Deborah Helitzer, ScD

Dervar Heltze

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



# FROM THE EXECUTIVE VICE DEAN OF THE SCHOOL OF MEDICINE



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.



Martha Cole McGrew, MD







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.



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

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."

SIGNATURE PROGRAM // ENVIRONMENTAL HEALTH

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.

**GROUNDWATER RISKS** 

# **GAUGING ARSENIC'S HEALTH IMPACTS IN BANGLADESH**

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. Be-

cause 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."



#### **Principal Investigator**

#### Scott Burchiel, PhD

Distinguished Professor and DeSantis Chair of Pharmacogenomics, College of Pharmacy

#### Grants/Grantors

Synergistic Suppression by PAHs and Arsenite National Institutes of Health

Arsenic Exposure, Impaired Respiratory Function, and Immunosuppression Columbia University/National Institute of Environmental Health Sciences







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.

But those same schoolyards may hold the key to reducing suicides, says Mary Ramos, MD, MPH, an assistant professor of pediatrics in the Division of Adolescent Medicine. "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."

#### Principal Investigator

Mary Ramos, MD, MPH

Assistant Professor, Department of Pediatrics

#### **Co-Principal Investigators**

Cathleen E. Wiliging, PhD, Pacific Institute for Research and Evaluation and Amy E. Green, PhD, University of California, San Diego

#### Grant

Implementing School Nursing Strategies to Reduce LGBTQ Adolescent Suicide

#### Grantor

Eunice Kennedy Shriver National Institute of Child Health and Human Development

# PROTECTING A SMOKER'S HEART FROM CARDIOVASCULAR DISEASE

SIGNATURE PROGRAM // CARDIOVASCULAR HEALTH

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.

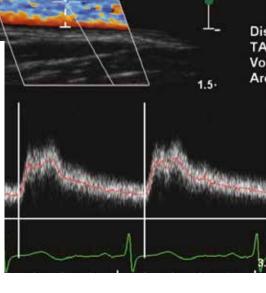
In a study, mice were exposed to cigarette smoke and some were fed a diet enriched with fish oil. Walker found that mice with healthier blood vessels also had higher levels of fish oil.

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."





#### Principal Investigator

#### Mary Walker, PhD

Professor, Department of Pharmaceutical Sciences, UNM College of Pharmacy

#### **Co-Principal Investigators**

#### Joe Anderson, PharmD

Associate Professor, UNM College of Pharmacy, Department of Pharmacy Practice and Administrative Sciences

#### Mark Langsfeld, MD

UNM Department of Surgery, Chief of Vascular Surgery

#### Wolf-Hagen Schunck, PhD

Max-Delbrück Center for Molecular Medicine, Berlin, Germany

#### Grants/Grantors

Cytochrome P4501A1 and Endothelial Dysfunction American Heart Association

Vasoprotective mechanisms of n-3 PUFA epoxides National Heart, Lung, and Blood Institute

### **SIGNATURE PROGRAM // INFECTIOUS DISEASES**



Like many biomedical scientists, Steven Bradfute, PhD, is perplexed by the size and speed of the ongoing Zika



**Principal Investigators** 

#### Steven B. Bradfute, PhD

Assistant Professor, Center for Global Health and Division of Infectious Diseases, Department of Internal Medicine

#### David Peabody, PhD

Professor, Department of Molecular Genetics and Microbiology

#### Bryce Chackerian, PhD

Professor, Department of Molecular Genetics and Microbiology

#### Grant

A New Approach to a Zika Virus Vaccine

#### Grantor

UNM Clinical & Translational Science Center

virus outbreak. Discovered in the 1940s, the virus isn't well understood, and, until recently, previous outbreaks have been relatively small and contained.

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

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

Bradfute, an immunologist in the UNM
Department of Internal
Medicine and the UNM
Center for Global Health,
is collaborating with
Los Alamos National
Laboratory to test a DNA
vaccine in mice.

And, with the help of pilot funding from the Clinical & Translational Science Center, he is teaming up with David Peabody, PhD, and Bryce Chackerian, PhD, professors in the Department of Molecular Genetics and Microbiology, to develop a vaccine using a novel technology that they hope will trick the immune system into attacking and neutralizing the virus.

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

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

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

"We're going to learn so much more about this virus in the next year or two," he says. "In the meantime, it's good to be aware and cautious of the risks of Zika but at the same time not to panic. That can cloud your judgment."



Bringing genomic research to patient care has long been a thrust of cancer medicine, but it wasn't feasible before recent technological advances.

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

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

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

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

Ness and his team are able to perform detailed RNAsequencing 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.

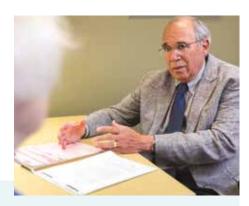
Raylene is an AYA – Adolescent and Young Adult – patient. These patients don't fit neatly into pediatrics or adult cancers. Some respond better to pediatric treatments and others to adult treatments. That's why the Cancer Center launched its AYA cancers program. Few cancer centers offer this focus on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



Principal Investigator
Gary Rosenberg, MD
Professor, Department of Neurology

Grant

Biomarkers for White Matter Injury in Mixed and Vascular Cognitive Impairment

Grantor

National Institutes of Health

Rosenberg, founding director of the new UNM Memory & Aging Center and an expert on wthe 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."



# NEW PARTNERSHIP PROMOTES SCIENCE COMMUNICATION

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 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.

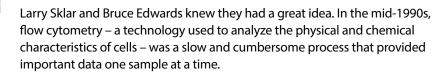


Principal Investigator
Richard S. Larson, MD, PhD
Executive Vice Chancellor and Vice
Chancellor for Research, UNM Health
Sciences Center; Professor, Department
of Pathology

## LET IT FLOW

# NURTURING BIOTECHNOLOGY IN NEW MEXICO





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.

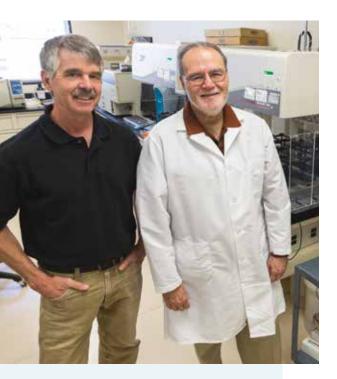
Their innovation would enable fast, accurate and reproducible screening of thousands of drugs to study the function of genes and cells, as well as biochemical pathways for new or existing drugs. These discoveries could be used to battle myriad diseases – cancer, infectious diseases and diabetes – as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



**Principal Investigators** 

Bruce S. Edwards, PhD

Research Professor, UNM Department of Pathology

Larry A. Sklar, PhD

The Maralyn S. Budke and Robert E. Anderson Distinguished Endowed Chair in Drug Discovery Director, UNM Center for Molecular Discovery Years Since

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Licensing and Start-Up Funding

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."





#### **Principals**

#### Mathis Shinnick, MBA

President and Founder, Hanserd Holding LLC

#### Celia Ameline, MBA

Owner and Principal Consultant, GEN5 Development LLC

#### Richard S. Larson, MD, PhD

Executive Vice Chancellor and Vice Chancellor for Research, UNM Health Sciences Center; Professor, Department of Pathology

#### Catherine Penick

Strategic Project Planner for Commercialization and Economic Development, UNM Health Sciences Center

#### Jeffrey Norenberg, PharmD, PhD

Professor and Director of Radiopharmaceutical Sciences, UNM College of Pharmacy

#### Ryan Cangiolosi, MBA

Senior Strategic Advisor, UNM Health Sciences Center





**Principal Investigator** 

Jason T. McConville, PhD Associate Professor of Pharmaceutics, College of Pharmacy

Wireless Medication Packaging Research

Grantor ASD Healthcare Getting patients to take their medication on time is a headache for health care providers, but a UNM researcher believes real-time medication moni9

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

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

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

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

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

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

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

"We are miniaturizing the device to make it inconspicuous to the patient," he says. "I hope it can help with patient compliance and improve their health outcomes."



You're a police officer – the first on scene. There's a 40-year-old man on the roof of his home with a handgun. He's a veteran who's seen combat, suffers from PTSD and depression and is highly intoxicated. He has struck his wife and is threatening his 11-year-old son.

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

Now there is.

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

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

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

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

"Law enforcement is constantly looking for better policing practices," Tinney says. "We've become the go-to agency for dealing with people with mental illness. It's very much a part of the job, and we truly want to help people in mental health situations."



#### Principals

Detective Matthew Tinney (left) Albuquerque Police Department

Daniel Duhigg, DO

Clinical Associate Professor, UNM Department of Psychiatry & Behavioral Sciences and Medical Director of Addiction Services, Presbyterian Healthcare Services



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.



Principal
Deborah Helitzer, ScD
Dean, College of Population Health

"The KI -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 KI-2 scholar listed in the ads.

"The scholars receive a lab and a mentor," Helitzer says. "They develop a research plan and there is a negotiation about a startup package of \$25,000 to set up lab space.





Every scholar gets 75 percent of their salary from NIH, with their department responsible for the rest.

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

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

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

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

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

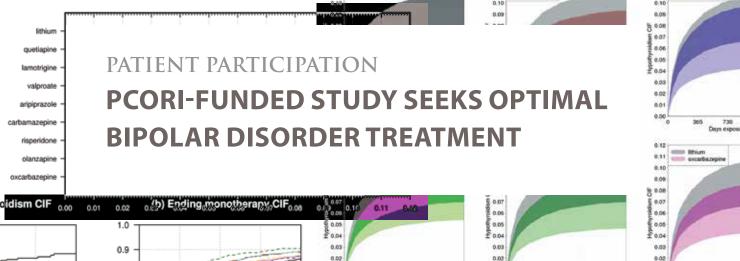
"I look at what other researchers in the same stage of their careers have to go through and I think, 'Oh, these scholars are so lucky.' And I know they are doing important research that will benefit us all," Helitzer says.

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

The complete roster of scholars includes:

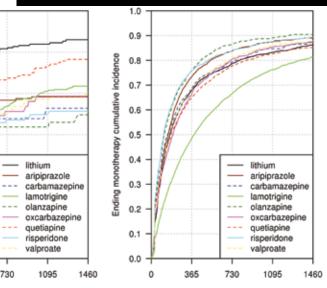
Christopher Abbott, MD, Psychiatry
Ellen Beswick, PhD, Microbiology and Genetics
Dawn Delfin, PhD, Pharmacy
Darrell Dinwiddie, PhD, Pediatrics
Jon Femling, MD, PhD, Emergency Medicine
Brandi Fink, PhD, Psychiatry
Alberta Kong, MD, Pediatrics
Sarah Pirio Richardson, MD, Neurology
Akshay Sood, MD, MPH,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





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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.

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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



#### Principal Investigator

#### Christophe Lambert, PhD

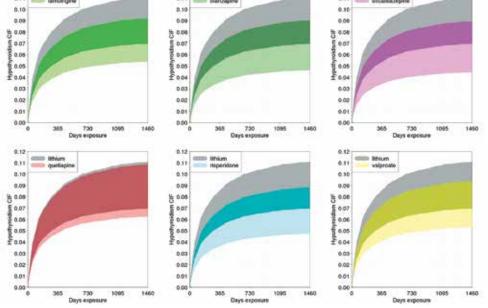
Associate Professor, Center for Global Health, Department of Internal Medicine

#### Grant

Longitudinal Comparative Effectiveness of Bipolar Disorder Therapies

#### Grantor

Patient-Centered Outcomes Research Institute



his team will catagorize 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.

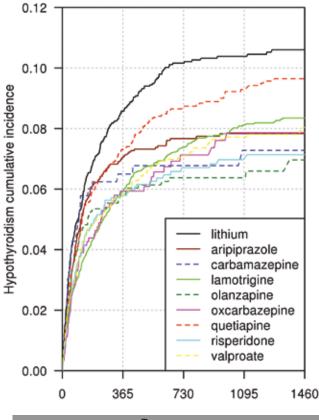
"We're asking questions about treatments, but also about types of access and advocacy, and how this affects their identities and careers," Lambert explains. Access to care may be important in rural areas like New Mexico, for example, but is not usually considered in treatment recommendations.

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.

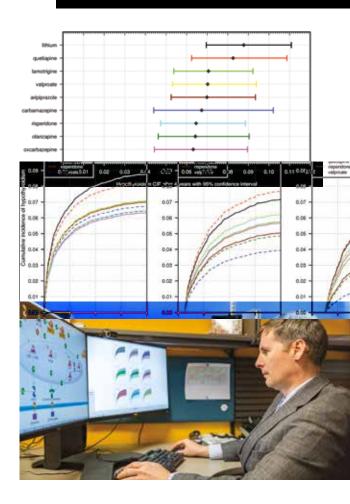
Lambert hopes the study will also demonstrate how population-level data analysis can contribute to more effective, personalized medicine that gives weight to patients' concerns and values.

"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."

#### (a) Hypothyroidism CIF



Days exposure







#### **Principal Investigator**

Judy Liesveld, PhD
Associate Professor, UNM College of Nursing

#### Grant

BSN Practicum with Navajo Area Indian Health Service

#### Granto

Health Resources and Services Administration

At some stage early in everyone's career there's a jumpingoff 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 highrisk 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



Left to right: Paul B. Roth, MD, MS; Corey Ford, MD, PhD; Jim Liu, PhD; Gena Dunivan, MD; Linda Cook, PhD; Bill Shuttleworth, PhD; Kiran Bhaskar, PhD; Richard S. Larson, MD, PhD

### 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.



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.



**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."



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."



**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."



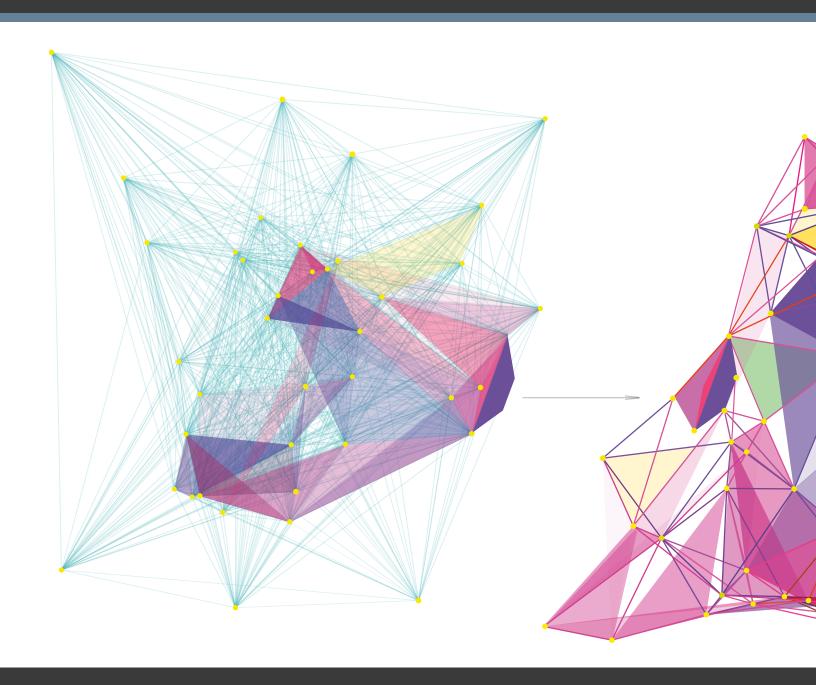
Jim Liu, PhD, College of Pharmacy

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

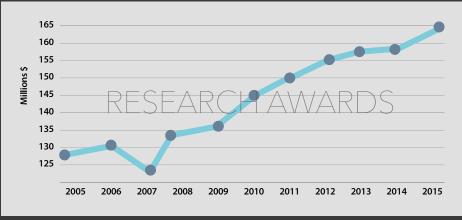
decision I've made in my life," Liu says, adding that he has found his colleagues the most collegial faculty he's had the pleasure of working with.

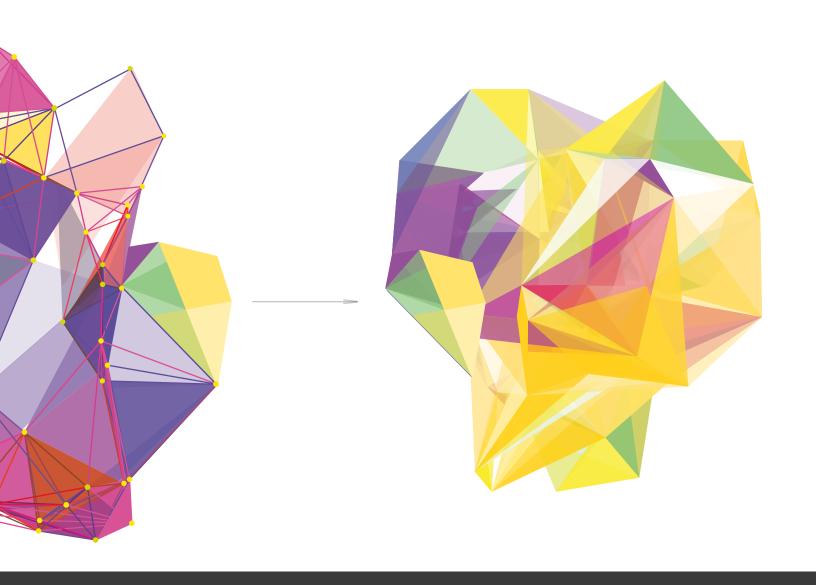
# Discovery Changes



BENCH BED







SIDE

COMMUNITY

#### 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 Methicil-lin-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



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



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



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



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



Naomi Lee K12 Scholar, NIH/IRACDA Developing novel vaccinces 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



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



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



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

#### UNM HEALTH SCIENCES TRAINING GRANTS



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 mycobacterialendemic region susing 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 endothedial 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

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



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



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



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



Joshua Sanchez
T32 Recipient,
Effects of prenatal alcohol exposure on the
neuroimmune response during chronic pain
Mentor: Erin Milligan, PhD



Christine Woods, PhD
K01 Scholar, NIH
Determing the role of G protein-coupled estrogren receptor in metabolism
Mentor: Eric Prossnitz, 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



Kayla R. Zehr, PhD
T32 Recipient, NIH/NHLBI
How omega-3 polyunstaturated 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



**Tess Shideler, PhD**K12 Scholar
The effects of EGFR activation on endosomal transport
Mentor: Angela Wandinger-Ness, 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 Orco, Adriana Luna Leon and Julia Pinner

### UNM HEALTH SCIENCES CENTER CONTRACTS AND GRANTS FY 2016

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	Orthopaedics	50
	Pathology	50
	Pediatrics	51
	Psychiatry and Behavioral Sciences	54
	Radiology	55
	Surgery	56
JNN	N Hospital	56
INIA	M Medical Group	56

(JULY 1, 2015 - JUNE 30, 2016)

## **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
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
<b>STEVEN MCLAUGHLIN</b> 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
HEALTH SCIENCES LIBRARY AND INFORMATICS CENTER
PATRICIA BRADLEY

PATRICIA BRADLEY	
Center for Public Service Communications	5,000
Native Voices Community Outreach	
Center for Public Service Communications	4,000
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 Info	ormation
and Communications Technologies	
Bravewell Collaborative	\$2,596
BraveNet Membership Application and Travel Support	

## OFFICE OF RESEARCH

DI	CHA	DD	TA	DC	ONT
- IN II	ыпи	1 K I J	II.A	I IK N	L JIN

LRRI/BSGP Fellowship Agreement
Lovelace Respiratory Research Institute
New Mexico VA Health Care System\$27,092  Veterinary Services for the New Mexico Veterans Affairs Health Care System

Lovelace Respiratory Research Institute ......\$39,795

# CLINICAL & TRANSLATIONAL SCIENCE CENTER

## **BRANDI FINK**

NIH/National Institute on Alcohol Abuse and Alcoholism \$2	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

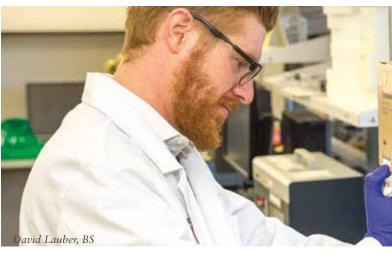
# ALBERTA KONG

NIH/National Institutes of Health
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
Dantara eth Callana (C.A.202
Dartmouth College\$54,283
Syneray-Dartmouth Center

# **COLLEGE OF NURSING**

MILY HAOZOUS  William Randolph Hearst Foundation
Santa Fe Community Foundation\$35,00 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\$20,00  Jonas Nurse Leaders Scholarship Program
AMY LEVI Anonymous Sponsor\$1,168,10 Building Nursing Workforce Capacity in Sexual and Reproductive Health
UDY LIESVELD  HHS/Health Resources and Services Administration
New Mexico Board of Nursing\$197,35 New Mexico Nursing Education Statewide Planning
American Association of Colleges of Nursing
VANCY MORTON  New Mexico VA Health Care System\$309,18  IPA: J. Lovato
VANCY RIDENOUR  Robert Wood Johnson Foundation
City of Albuquerque\$67,00 Geriatric Education and Health Maintenance
TEPHEN VAN ROPER El Pueblo Health Service\$121,47 El Pueblo Mental Health Contract
El Pueblo Health Service\$114,58 El Pueblo Mental Health Contract
ACE Leadership High School
ABQ Health Partners, LLC\$55,70 ABQ Health Partners Contract (w/BAA)
Mountain Spirit Integrative Medicine\$55,03  Mountain Spirit-Heidi Rogers
El Centro Family Health\$55,03 El Centro Family Health-Heidi Rogers
El Pueblo Health Service\$54,86 El Pueblo Mental Health Contract
First Nations Community Healthsource, Inc
UNMH/UNM Hospital\$10,79 Ambulatory Care Providers (Haeffele)
COLLEGE OF PHARMACY
OE ANDERSON New Mexico Department of Health



David Lauber, BS
New Mexico Department of Health\$22,266 Health Systems Data Management and Use of Team-Based Healthcare
<b>LUDMILA BAKHIREVA</b> NIH/National Institute on Alcohol Abuse and Alcoholism
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
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
HHS/Centers for Disease Control and Prevention
NIH/National Institutes of Health
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

 ${\it Health Systems Data Management and Use of Team-Based Health} care$ 



ESZTER ERDEI
Black Hills Center for American Indian Health
Boston University
LINDA FELTON  U.S. Department of Veterans Affairs\$72,720  Formulation and Batch Records for the VA Medical Center in Albuquerque, New Mexico
CHANGJIAN FENG NIH/National Institutes of Health
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.
<b>DONALD GODWIN</b> HHS/Health Resources and Services Administration\$8,302 Health Professional Student Loan
PAMELA HALL  NIH/National Institutes of Health
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
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
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
Wireless Medication Packaging Research  RENEE-CLAUDE MERCIER  TriCore Reference Laboratories
RENEE-CLAUDE MERCIER TriCore Reference Laboratories
RENEE-CLAUDE MERCIER TriCore Reference Laboratories
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RENEE-CLAUDE MERCIER TriCore Reference Laboratories
RENEE-CLAUDE MERCIER TriCore Reference Laboratories

SABRINA SAMUDIO-RUIZ  NIH/National Institutes of Health
SUSAN SMOLINSKE HHS/Health Resources and Services Administration
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
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
Sandia National Laboratories
Sandia National Laboratories
University of Louisville\$31,849 Biomechanical Investigation of the Effect of Bone Disorders on Pediatric
Femur Fracture Potential
Femur Fracture Potential  Simon Fraser University\$25,549  Traumatic Injury Patterns of the Modern Juvenile Human Skeleton

#### **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 Clinical Trial Subaward Phase 1 and 2	\$172,872
New Mexico Cancer Care Alliance	\$80,935
Phi Beta Psi Foundation	\$52,600

## C

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



Wayre Boyyang	FOLIA FYNY MY
YANIS BOUMBER U.S. Department of Defense	ESME FINLAY New Mexico Cancer Care Alliance
LC140074:Msi2 Regulates the Aggressiveness of Non-Small Cell Lung Cancer	Clinical Trial Agreement Phase 3
New Mexico Cancer Care Alliance	RICHARD HARVEY
Clinical Trial Phase 3	Carl C. Anderson Sr. & Marie Jo Anderson Charitable Foundation\$50,000
	High-Throughput Combination Drug-Sensitivity Testing for
New Mexico Cancer Care Alliance	Childhood Leukemias with CRLF2 Rearrangements
Clinical Trial Phase 2	DEIRDRE HILL
N N 1 6 6 1111	NIH/National Cancer Institute\$75,604
New Mexico Cancer Care Alliance\$119,880 Clinical Trial Phase 3	The Natural History of Untreated Breast Cancer
N N 1 6 6 1111	NIH/National Cancer Institute\$75,541
New Mexico Cancer Care Alliance\$119,168 Clinical Trial Phase 1b and 2	Biomarkers of Tumor Initiation in Breast Cancer
	Group Health Research Institute\$36,257  Risk-Based Breast Cancer Screening in Community Setting
New Mexico Cancer Care Alliance\$101,855	kisk-basea breast Cancer screening in Community setting
Clinical Trial Subaward Phase 3	ANITA KINNEY
New Mexico Cancer Care Alliance	Mayo Clinic
Clinical Trial Phase 2	Alliance NCORP Research Base-Alliance A19401 Pilot Questionnaire Study
New Mexico Cancer Care Alliance	RICHARD LAUER
Clinical Trial Subaward Phase 1b and 2a	New Mexico Cancer Care Alliance\$105,005
Cliffical Mai Subuwala Mase 10 ana 2a	Clinical Trial Agreement Phase 1
New Mexico Cancer Care Alliance\$78,065	New Mexico Cancer Care Alliance\$100,023
Clinical Trial Subaward Phase 2	Clinical Trial Agreement Phase 1 and 2
Avenua De Carrotana	New Mexico Cancer Care Alliance\$95,700
ALEXANDRE CHIGAEV  Carl C. Anderson Sr. & Marie Jo Anderson Charitable Foundation \$50,000	Clinical Trial Subaward Phase 2
Matrix-Mimicking Polymers for Hematopoietic Stem and Leukemic Cells	
matin millieking rolythers for Hematopoletic Stem and Leakernic Cens	FA-CHYI LEE
LINDA COOK	New Mexico Cancer Care Alliance\$87,045 Clinical Trial Phase 2
NIH/National Cancer Institute\$318,673	Clinical mai Phase 2
Mitochondrial DNA and Ovarian Cancer Risk and Survival	ELIZABETH MCGUIRE
70. The state of t	New Mexico Cancer Care Alliance\$156,045
ZONEDDY DAYAO  New Mexico Cancer Care Alliance	Clinical Trial Subaward Phase 1 and 2
Clinical Trial Subaward Phase 3	New Mexico Cancer Care Alliance
Clinical Mai Subuwala Mase 5	Clinical Trial Agreement Phase 1 and 2
MATTHEW FERO	
University of Washington	New Mexico Cancer Care Alliance
Systems and Carcinogenic Impact Assessment of Topical Microbicides on	Clinical Trial Phase 3\$90,482
Human Mucosa	LAURA NERVI
University of Washington\$220,938	Consulate of Mexico in Albuquerque\$40,000
Systems and Carcinogenic Impact Assessment of Topical Microbicides on	Ventanilla de Salud
Human Mucosa	Consulate of Mexico in Albuquerque\$36,000
	Ventanilla de Salud
	SCOTT NESS
Annual Control of the Party of	NIH/ National Institutes of Health
The second secon	Mutation and Target Genes in Adenoid Cystic Carcinoma
The second secon	
	Adenoid Cystic Carcinoma Research Foundation
THE PARTY OF THE P	Development of High-Throughput Drug Screening Assays for Adenoid Cystic Carcinoma
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	
	NIH/National Institutes of Health\$55,370
	Mutation and Target Genes in Adenoid Cystic Carcinoma
	RENATA PASQUALINI
	Gillson Longenbaugh Foundation\$125,000
	In Vivo Antibody Phage Display

Rice University ......\$56,475

Optical Systems for In Vivo Molecular Imaging of Cancer

YEHUDA PATT New Mexico Cancer Care Alliance
ERIC PROSSNITZ         New Mexico State University       \$714,864         New Mexico IDeA Networks of Biomedical Research Excellence
NIH/National Cancer Institute
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
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
Leidos, Inc
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
American Medical Association Foundation
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
U.S. Department of Defense\$453,875 Calreticulin and Jak2 as Chaperones for MPL: Insights into MPN Pathogenesis



	Senior Scientific\$876
	Use of Nanoparticles for the Detection of Breast Cancer
P TO	Center for Telehealth
	DENISE DION
The same of the sa	Taos Municipal Schools\$25,000
	Professional Service Agreement
Cell Biology and Physiology	Dental Medicine
cen biology and i hysiology	VICKI PIZANIS
LAURA GONZALEZ-BOSC	HRSA/Office of Rural Health Policy
Actelion Pharmaceuticals Ltd \$291,954	
Effect of Macitentan in a Rat Model of Combined	Special Needs Dental Residency Training Program
	Contract Time of the
Chronic Kidney Disease and Sleep Apnea	CHARLES TATLOCK
TIME WAY II APPRELATABLE	New Mexico Department of Health \$259,213
HELEN HATHAWAY	Basic Oral Health Sciences
University of Texas, El Paso\$29,646	
BUILDing SCHOLARS	Dermatology
NIKKI JERNIGAN	D. C
NIH/National Institutes of Health\$377,500	R. Steven Padilla
Vascular Smooth Muscle Function in Pulmonary Hypertension	National Psoriasis Foundation
rascalar sinostrinasaci anctionini annonal, rijpertension	Support for Resident in Dermatology
NANCY KANAGY	
	ECHO In atitude
NIH/National Heart, Lung, and Blood Institute\$340,124	ECHO Institute
Hydrogen Sulfide Regulation of Vascular Tone and Blood Pressure	SANJEEV ARORA
ANNUAL OF THE STATE OF THE STAT	GE Foundation
NIH/National Heart, Lung, and Blood Institute\$32,123	
Hydrogen Sulfide Regulation of Vascular Tone and Blood Pressure	Leveraging the ECHO Model to Improve Quality in FQHCs and
	Transform the U.S. Healthcare System
NIH/National Heart, Lung, and Blood Institute\$5,669	
Hydrogen Sulfide Regulation of Vascular Tone and Blood Pressure	Parkland Health & Hospital System\$1,500,000
	New Mexico AETC Project ECHO
THOMAS RESTA	CE Farm dation
American Heart Association\$140,000	GE Foundation\$1,000,000
Vascular Redox Signaling in Intermittent Hypoxia-Induced	Leveraging the ECHO Model to Improve Quality in FQHCs and
Pulmonary Hypertension	Transform the U.S. Healthcare System
, annersal, rijpertensien	Defense Heelth America
NIH/National Heart, Lung, and Blood Institute\$32,204	Defense Health Agency
The Role of Adaptive Immunity in Chronic Hypoxia-Induced	Telementoring Services
Pulmonary Hypertension	
rumonary hypertension	Parkland Health & Hospital System\$400,000
NIIII/NI-ti	New Mexico AETC, Project ECHO
NIH/National Heart, Lung, and Blood Institute\$30,102	
Role of PKCbeta and Oxidant Signaling in Neonatal Pulmonary Hypertension	Elizabeth Glaser Pediatric AIDS Foundation\$293,853
TF	Mentor and Train Providers in HIV
Kristina Trujillo	
NIH/National Cancer Institute\$346,461	Liver Institute and Foundation for Education and Research \$230,974
Is Tumor-Adjacent Histologically Normal Tissue Primed for Tumorigenesis	Project ECHO Georgia HCV Elimination Project
through the TGF(beta) Pathway?	, , <u>,</u> , ,
	Leona M. and Harry B. Helmsley Charitable Trust\$202,500
BENJIMEN WALKER	Endocrinology teleECHO Program
NIH/National Institutes of Health\$357,165	Endochnology teleEcho Program
Minority Institutional Research Training Program (T32)	Prietal Myore Squibb Inc. Foundation \$100 F00
·	Bristol Myers Squibb, Inc. Foundation
	Leveraging ECHO to Enhance Cancer Screening and Prevention
Center for Infectious Disease and Immunity	Seattle Indian Health Board\$150,000
TrnnyWii	
TERRY WU	Project ECHO Supporting the Enhanced Implementation of Health and Wellness
Defense Threat Reduction Agency\$1,148,014	March Communication
Evaluation of Novel Subunit Tularemia Vaccines in Rat and	Merck Company Foundation\$150,000
Non-Human Primate Aerosol Infection Models	Southeast Asia Health System Transformation Planning Grant

Defense Threat Reduction Agency ......\$228,000 Evaluation of Novel Subunit Tularemia Vaccines in Rat and

Lawrence Livermore National Laboratory ......\$97,725

Lawrence Livermore National Laboratory .......\$57,265

Non-Human Primate Aerosol Infection Models

Optimized NLP Vaccination Regimen (2-AR)

Optimized NLP Vaccination Regimen

Center for Substance Abuse Treatment\$149,934 ECHO National Addictions and Substance Abuse
Massachusetts General Hospital
New Mexico Corrections Department \$113,322 Hepatitis C Services
New Mexico Corrections Department \$113,322 Hepatitis C Services
Missouri Telehealth Network\$100,000 ECHO Technical Assistance for Missouri Telehealth Network
Albuquerque Area Indian Health Board, Inc\$94,500 Leveraging Project ECHO for a Comprehensive Approach to Health and Wellness in Indian Country
American Academy of Pediatrics\$89,000 Enhancing Child and Youth Epilepsy Care via the ECHO Model (FY16)
University of Washington\$63,800 Namibia HIV ECHO Expansion
Elizabeth Glaser Pediatric AIDS Foundation\$30,000 Implementing Project ECHO to Build Namibian National Capacity to Mentor and Train
University of Colorado Denver\$25,000 ECHO Technical Assistance for the University of Colorado-Denver
Universidad Austral-Buenos Aires\$25,000 ECHO Technical Assistance for Universidad Austral-Buenos Aires
University of California, San Francisco\$25,000 ECHO Technical Assistance to UCSF
U.SMexico Border Health Commission\$22,500 TB Border ECHO Project
American Academy of Pediatrics\$20,000 Improving Access to Care for Children and Youth with Endocrinology Needs
New Mexico Department of Health\$15,825 Tuberculosis Project ECHO
Hospital Italiano-Buenos Aires, Argentina
Hidalgo Medical Services
Emergency Medicine
JUSTIN BACA Sandia National Laboratories
LAURA BANKS  New Mexico Department of Transportation
New Mexico Department of Health\$84,400 Hospital and Health Systems Preparedness Project Addendum
New Mexico Department of Health\$53,278  Hospital and Health Systems Preparedness Project Addendum

DARREN BRAUDE  DOD/Department of the Air Force \$663,243  UNM Educational Service Agreement
DOD/Kirtland Air Force Base
DOD/Department of the Air Force
Gypsum Medical Associates of New Mexico, P.C\$78,120 Professional Services
Valencia County\$45,744 Professional Services
Wilderness Medics Inc\$25,000 Professional Services (w/BAA)
National Radio Astronomy Observatory\$5,760 First Responder Training Course
U.S. National Park Service\$4,750 115WFR005; Wilderness First Responder Course
Motion Picture Set Medics, LLC\$2,604 Professional Service Agreement
U.S. National Park Service\$2,001 Wilderness First Aid Course-116WFA001
DOD/Kirtland Air Force Base\$630 BLS for the Healthcare Provider Course
Zuni Pueblo\$370 BAS115012 EMT Basic Course
JOY CROOK State of New Mexico
State of New Mexico\$54,476 Professional Services
City of Rio Rancho\$4,000 Professional Services
REBECCA FASTLE  New Mexico Department of Health\$10,000  New Mexico Child Fatality Review
Now Mayica Department of Health



JON KENNETH FEMLING Olive View Medical Center-UCLA\$15,000 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
Wayne State University
MICHAEL RICHARDS  New Mexico Department of Health
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



HHS/Health Resources and Services Administration \$200,000 New Mexico Child Ready Program	С
HHS/Health Resources and Services Administration	С
HHS/Health Resources and Services Administration	5
Washington University School of Medicine in St. Louis\$82,81- Impact of Probiotic Treatment of Pediatric Gastroenteritis in the Acute-Care Setting	4
ISAAC TAWIL DCI Donor Services\$19,777 Medical Director Services	7
BRANDON WARRICK U.S. Department of Justice	б
U.S. Department of Justice\$19,294 Expert Witness Contract (Lee v. U.S.A.)	4
U.S. Department of Justice. \$99 Expert Witness Contract	9
CHELSEA WHITE Bernalillo County\$63,05: Medical Director	3
Ramah Navajo School Board, Inc., dba Pine Hill Health Center\$24,000 Medical Direction for the Ramah Navajo School Board	О
Western Refining Southwest, Inc\$12,000 Professional Services Agreement	С
Cibola County\$12,000 Professional Services Agreement	С
Family and Community Medicine	
-	
Family and Community Medicine  SALLY BACHOFER  HHS/Health Resources and Services Administration	9
SALLY BACHOFER HHS/Health Resources and Services Administration	
SALLY BACHOFER  HHS/Health Resources and Services Administration	0
SALLY BACHOFER  HHS/Health Resources and Services Administration	0
SALLY BACHOFER  HHS/Health Resources and Services Administration	0
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-Admission Screening and Resident Review (FY16)  OptumHealth New Mexico \$165,550 Pre-Administration Screening and Resident Review  LISA CACARI-STONE New Venture Fund \$569,000	0
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-Admission Screening and Resident Review (FY16)  OptumHealth New Mexico \$165,550 Pre-Administration Screening and Resident Review  LISA CACARI-STONE New Venture Fund \$569,000 Evaluation Services-NCHE  Con Alma Health Foundation \$55,000	0 0 0
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-Admission 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 \$120,120	0 0 0
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-Admission 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 \$120,120 Professional Physician Services  Presbyterian Medical Services \$25,200	0 0 0 6

DEBORAH HELITZER University of Texas at Tyler	David Santistevan, BS
Southwest Health Extension Partnership to Enhance Research Dissemination  HHS/Health Resources and Services Administration	VICTORIA SANCHEZ  New Mexico Department of Health
SARAH LATHROP New Mexico Department of Health	National AHEC Organization
Early Training Grant  MARTHA MCGREW First Choice Community Healthcare\$53,784 First Choice Community Healthcare (FY16)  MARNIE LYYN NIXON Community Foundation of Southern New Mexico\$15,675 School-Based Health Centers	Tulane University\$97,622  ACA-Region 6 Public Health Training Center  NINA WALLERSTEIN  NIH/National Institutes of Health\$591,687  Family Listening Program: Multi-Tribal Implementation and Evaluation-Year 3  NIH/National Institutes of Health\$559,693
JANET PAGE-REEVES Bernalillo County	Advancing CBPR Practice Through a Collective Reflection and Measurement Toolkit  NIH/National Institutes of Health
City of Albuquerque\$35,995 Cultural Humility Training for the City of Albuquerque  University of Wisconsin\$23,098 Healthy Children, Strong Families and Supportive Community Intervention  University of Wisconsin\$22,784 Healthy Children, Strong Families: American Indian Communities Preventing Obesity	Transforming Primary Care in Underserved Communities  HHS/Health Resources and Services Administration
Notah Begay III Foundation\$18,000 Institute for Indigenous Knowledge and Development  ROBERT RHYNE New Mexico Department of Health\$41,667 Academic Detailing Project	Internal Medicine  RANA AL-SADI  Crohn's & Colitis Foundation of America\$90,000  MMP-9 Modulates Intestinal Epithelial Tight Junction Barrier and Intestinal Inflammation (Year 2-FY17)



CHRISTOS ARGYROPOULOS Akebia Therapeutics\$128,000 Clinical Trial Phase 3
Akebia Therapeutics\$128,000 Clinical Trial Phase 3
SANJEEV ARORA AbbVie
Merck, Sharp & Dohme, Inc. \$199,995 Clinical Trial Phase 2
EDGAR BOEDEKER  New Mexico Veterans Affairs Medical Center
New Mexico Veterans Affairs Medical Center\$5,352 IPA-Prashanth Setty
CRISTIAN BOLOGA Givaudan Flavors Corporation
STEVEN BRADFUTE DOD/Defense Threat Reduction Agency
DOD/Defense Threat Reduction Agency\$200,000 Effects of Differential Gycosylation on Filovirus Glycoprotein Immunogenicity
MARK BURGE Grifols Worldwide Operations, Ltd\$174,000 Clinical Trial Phase 2
VisionQuest Biomedical\$57,835 Quantitative Biomarkers of T1D Peripheral Neuropathy Using Functional Imaging
MARCOS BURGOS  New Mexico Department of Health
KELLY CHONG Dialysis Clinic, Inc\$365,722 An Exploratory Analysis of AKI Patient Population
JENNIFER DEGRAAUW Albuquerque Area Indian Health Service

UNIVERSITY of NEW MEXICO HEALTH SCIENCES CENTER

THERESA HEYNEKAMP Cystic Fibrosis Foundation\$39,420 Cystic Fibrosis Care Center Program
University of Utah\$13,500 Multicenter Validation of Predictive Sputum Biomarkers in Cystic Fibrosis
Cystic Fibrosis Foundation\$5,908 Cystic Fibrosis Care Center Program
MICHELLE IANDIORIO University of Colorado Denver\$25,932 New Mexico AIDS Education and Training Center
PATRICIA KAPSNER  Novartis Pharmaceuticals Corporation\$6,285  Clinical Trial Phase 3
<b>DENECE KESLER</b> HHS/Health Resources and Services Administration
IRENA KING Fred Hutchinson Cancer Research Center\$46,766 Transdisciplinary Research in Energetics and Cancer Coordination Center
CHRISTOPHE LAMBERT Patient-Centered Outcomes Research Institute\$2,296,555 ACA-Longitudinal Comparative Effectiveness of Bipolar Disorder Therapies
NIH/National Institutes of Health
WARREN LASKEY New Mexico VA Health Care System. \$809,002 VA Interventional Cardiology
New Mexico Heart Institute\$25,000 Professional Service Agreement
New Mexico Department of Health\$15,130 Stroke and STEMI Center Development
CHRISTINA LOVATO Novartis Pharmaceuticals Corporation \$160,764 Clinical Trial Agreement Phase 4
THOMAS MA
NIH/National Institute of Diabetes and Digestive and Kidney Diseases
U.S. Department of Veterans Affairs
LANA MELENDRES-GROVES Actelion Clinical Research, Inc
ORRIN MYERS U.S. National Park Service
PRASHANT NIGHOT  NIH/National Institutes of Health
TUDOR I. OPREA  NIH/National Cancer Institute\$1,317,657  Illuminating the Druggable Genome Knowledge Management Center

KIMBERLY PAGE
NIH/National Institute on Drug Abuse\$1,330,280  Acute Hepatitis C Infection in Young Injectors
Gilead Sciences
Montefiore Medical Center\$426,909 ACA-Patient-Centered Models of HCV Care for People who Inject Drugs
HHS/Centers for Disease Control and Prevention
DOUGLAS PERKINS         NIH/National Institutes of Health       \$242,882         Training and Research on Severe Malarial Anemia
Los Alamos National Laboratory\$225,000 Characterize the Emergence of Antibiotic Resistance and Virulence in the Immunocompromised population
ARTI PRASAD American Academy of Family Physicians\$31,325 Vaccine Science Fellow
The Weil Foundation\$10,000 7th Biennial 2016 Symposium of Integrative Medicine Professionals in the Land of Enchantment
MARK ROHRSCHEIB Medici Technologies
DAVID SCHADE The George Washington University
The George Washington University
NIH/National Institute of Diabetes and Digestive and Kidney Diseases
Case Western Reserve University\$127,533  Epidemiology of Diabetes Intervention and Complications
NIH/National Institute of Diabetes and Digestive and Kidney Diseases\$27,947 Diabetes Prevention Program Phase 3
Case Western Reserve University\$18,830 Epidemiology of Diabetes Intervention and Complications
Case Western Reserve University\$15,435 Residual Beta Cell Function in Patients with Long-Term Type 1 Diabetes
Case Western Reserve University\$14,067 Hearing Impairment in Long-Term Type 1 Diabetes
University of South Florida\$2,000 Type 1 Diabetes TrialNet
WILMER SIBBITT Celgene Corporation \$68,833 Clinical Trial Phase 3
AKSHAY SOOD  Miners Colfax Medical Center\$134,941  Medical Consultation and Care

QTC Medical Group\$25,000 Second Medical Opinion Evaluations
Miners Colfax Medical Center\$7,700 ACA-Building Capacity for Novel Screening Delivery for Chronic Conditions to Benefit Miners in New Mexico
ELAINE THOMAS  New Mexico Department of Health\$67,757  STD Provider Training Project: FY16
MARK UNRUH Anonymous Non-Profit Foundation\$1,181,620 Medical Directorship and QA
Dialysis Clinic, Inc\$335,904 ASCEND
Dialysis Clinic, Inc\$328,178 Diuretic/Cool Dialysate Trial
Santo Domingo Health Center\$254,166 Professional Services Agreement-Nephrology Services
Baystate Medical Center\$214,481 ACA-Shared Decision Making and Renal Supportive Care
University of Washington\$98,949 ACA-Treatment Options for Depression in Patients Undergoing Hemodialysis
Anonymous Non-Profit Foundation\$54,240 Medical Directorship and QA-Travel
Anonymous Non-Profit Foundation\$28,250  Grand Rounds Support
Baystate Medical Center\$6,872 ACA-Shared Decision Making and Renal Supportive Care
HEATHER WARD  NIH/National Institutes of Health
Dialysis Clinic, Inc\$60,000 Repurposing Relaxin to Inhibit Cystogenesis and Progression of Polycystic Kidney Disease
STEVEN WILLIAMS  HHS/Health Resources and Services Administration



Children and Youth Part D

HHS/Health Resources and Services Administration	NIH/National Institute of Allergy and Infectious Diseases \$399,999 Pattern Recognition Receptors and Autophagy in Mtb Control in AIDS
New Mexico Department of Health	MICHELLE OZBUN University of Pittsburgh\$91,827
HHS/Health Resources and Services Administration\$38,000 Comprehensive HIV Early Intervention Services (Ryan White Part C)	Genetic Alterations of PIK3CA Identify Actionable Targets for HPV-Associated Head and Neck Cancer
Terry Wu	Albuquerque BioPark Society\$36,916  Detection of EEHV in Abq BioPark Elephants
GlaxoSmithKline\$145,066 PK Study of GSK44 in Fischer 344 Rats	
	DAVID S. PEABODY Sandia National Laboratories
Molecular Genetics and Microbiology	Peptide-VLP Libraries for Epitope Mapping
ELLEN BESWICK	Neurology
DeGregorio Foundation	Neurology
Targeting MK2 for Treatment of Gastric Cancer	COREY FORD
University of Texas Medical Branch\$27,000	Novartis \$269,308
Regulatory Role of CD90+ Stromal Cells in Th1/Th17 Activity in Crohn's Disease	Clinical Trial Phase 3
KIRAN BHASKAR	Genentech, Inc
NIH/National Institute of Neurological Disorders and Stroke \$331,042	Clinical Trial Agreement Phase 3
The Role of Inflammasome Signaling in Tauopathies	Adamas Pharmaceuticals, Inc
NIH/National Institute of Neurological Disorders and Stroke\$93,800	Clinical Trial Agreement Phase 2
Light-Based Regulation of Autophagy Processing to Target Pathological	Biogen Idec
Forms of Tau	Clinical Trial Agreement Phase 3
JUDY CANNON	
NIH/National Institute of Allergy and Infectious Diseases \$377,500 The Role of PKCtheta in T-Cell and T-ALL Migration	Biogen Idec\$54,523  Observational Study Agreement Phase 4
Northern New Mexico Community College\$6,972 Statistical Analysis of Differential Expression of Gene Sets	Genzyme Corporation\$40,361 Clinical Trial Agreement Phase 4
Northern New Mexico Community College\$6,972 Statistical Analysis of Differential Expression of Gene Sets	PPD Development\$37,605 Clinical Trial Phase 3
BRYCE CHACKERIAN	Genzyme Corporation\$25,292
Henry M. Jackson Foundation\$37,083  Gonococcal Peptide-Virus-Like Particle Vaccines	Clinical Trial Phase 3
Conscoccar epide viras Ener article vaccines	Novartis\$3,900
VOJO DERETIC	Clinical Trial Agreement Phase 3
NIH/National Institute of Allergy and Infectious Diseases	LESLIE MORRISON
Autophagy Against Tuberculosis and HIV	University of California, San Francisco\$158,805
NIH/National Institutes of Health	The Brain Vascular Malformation Consortium: Predictors of Clinical Course
Autophagy-Based HDT for Tuberculosis	University of Rochester\$12,080 FOR DMD: Double-Blind Randomized Trial to Optimize Steroid Regimen in
	Duchenne Muscular Dystrophy
	SUROJIT PAUL
	NIH/National Institute of Neurological Disorders and Stroke \$330,313
	Role of Brain-Specific Tyrosne Phosphatase STEP in Neuroprotection and Death
	JOHN PHILLIPS
	The Mind Research Network\$100,745  MRN Medical Director
	New Mexico School for the Blind & Visually Impaired\$10,000



NIH/National Institutes of Health ......\$330,313

NIH/National Institutes of Health .......\$263,786 High-Speed fMRI Resting State Connectivity

Neuro Imaging and Visual Improvement

Hyperhomocysteinemia and Ischemic Stroke

RANJANA PODDAR

**STEFAN POSSE** 

GARY ROSENBERG	
NIH/National Institutes of Health\$484,215	
Biomarkers for White Matter Injury in Mixed and	
Vascular Cognitive Impairment	
NIH/National Institute of Neurological Disorders and Stroke \$330,495	
White Matter Hypoxia in a Novel Model of MMP-Mediated	
Inflammation in SHR/SP	
The Mind Research Network	
MRN Administrative Operations	
U.SIsrael Binational Science Foundation\$25,737	
BBB Permeability Abnormalities and Post-Stroke Cognitive Decline	
555 terricularity richardinates and rich control cognitive Seemic	
JENNIFER ANN VICKERS	
New Mexico Department of Health\$5,275  Children's Medical Services (FY16)	Carolyn Nighbert
Children's Medical Services (F1 To)	
YI YANG	
NIH/National Institute of Neurological Disorders and Stroke \$189,219	NIH/National Institute on Alcohol Abuse and Alcoholism \$146,287
Longitudinal Monitor of Microglia Activation After Stroke with SPION-Enhanced MRI	Alcohol Research Training in Neurosciences
	JASON WEICK
Neurosciences	NIH/National Institute of Neurological Disorders and Stroke\$95,523
Jonathan Brigman	Light-Based Regulation of Autophagy Processing to Target Pathological Forms of Tau
University of California, San Diego	Tomis of Tau
Neurophysiological Biomarkers of Behavioral Dimensions	
NIH/National Institute on Alcohol Abuse and Alcoholism	Neurosurgery
Altered Neuronal Dynamics of Executive Control	Denis Bragin
After Prenatal Alcohol Exposure	NIH/National Institute of Neurological Disorders and Stroke \$233,479
Erin Milligan	Stroke Treatment by Modulation of Hemodynamics
NIH/National Institute on Alcohol Abuse and Alcoholism \$182,760	with Soluble Drag-Reducing Molecules
Chronic Neuropathic Pain, Glial-Immune Responses and	ANDREW CARLSON
Fetal Alcohol Exposure (MPI)	Edge Therapeutics
Nora Perrone-Bizzozero	Clinical Trial Agreement Phase 3
NIH/National Institute on Drug Abuse\$449,098	Johns Hopkins University\$130,458
Competing Roles of MicroRNAs and RNA-Binding Proteins in Drug Addiction	MISTIE III A Phase 3 Randomized, Open-Label, 500-Subject
University of South Carolina	Clinical Trial of Minimally Invasive Surgery Plus rt-PA in the Treatment
Antagonistic Roles of HuD and KSRP for mRN Stability in Neuronal Growth	of Intracerebral Hemorrhage
	Covidien
University of South Carolina	Clinical Trial Close-Out Fees
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NIH/National Institute on Drug Abuse\$32,456	JEFF HILL National Multiple Sclerosic Society \$44,000
Opposing Roles of miR-495 and HuD in Addiction-Related Plasticity and Behavior	National Multiple Sclerosis Society\$44,000 Investigation of Novel Therapeutic Peptide in an Experimental Autoimmune
riasticity una benavior	Encephalomyelitis Multiple
DANIEL SAVAGE	IEDEAN/IEMIC
NIH/National Institute on Alcohol Abuse and Alcoholism\$1,661,914	JEREMY LEWIS           InVivo Therapeutics Corporation
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions	Clinical Trial
	Yan and Araman Aram
NIH/National Institutes of Health\$307,539 Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission	JOANNA KATZMAN HHS/Indian Health Service\$291,654
. eta. Ethanol Enects on installining tregulation of Neurotransmission	UNM Pain Center Educational Collaboration with Indian Health Services
NIH/National Institute on Alcohol Abuse and Alcoholism	
Fetal Ethanol-Induced Behavioral Deficits: Mechanisms,	Kaleo Pharmaceuticals
Diagnoses and Interventions	Clinical Trial Phase 4
BILL SHUTTLEWORTH	New Mexico Department of Health
NIH/National Institute of General Medical Sciences \$2,438,975	UNM Chronic Pain Clinic Naloxone Co-Prescription Pilot Project
University of New Mexico Center for Brain Recovery and Repair	EDWIN NEMOTO
CARLOS VALENZUELA	Rio Grande Neurosciences, Inc
NIH/National Institute on Alcohol Abuse and Alcoholism \$335,472	For Primary Cell Multiplex Analysis of Multiple Treatments of PEMF
Alcohol and Developing Neuronal Circuits	



Rio Grande Neurosciences, Inc
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
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
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
REBECCA ROGERS  NIH/Eunice Kennedy Shriver National Institute of Child Health and Human Development
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
HANNAH KASTENBAUM  New Mexico Public Safety Department\$168,500  2015 Paul Coverdell Competitive
KURT NOLTE U.S. Attorney's Office
LORI PROE New Mexico Crime Victims Reparation Commission
New Mexico Department of Health\$21,100  New Mexico Sudden Unexpected Infant Death Registry

VEENA SINGH  New Mexico Department of Health\$24,998  Public Health Preparedness and Response for BioTerrorism
ROSS ZUMWALT Lovelace Health System\$25,000 Professional Services
Orthopaedics
THOMAS DECOSTER U.S. Department of Justice
DePuy Orthopaedics, Inc\$2,000 AO Trauma Pelvis and Acetabular Course, Seattle, WA
BETH JONES  Langford Consulting, Inc\$32,923  Professional Services Agreement
DEANA MERCER Johns Hopkins University\$27,000 The Major Extremity Trauma Research Consortium
ROBERT SCHENCK Santo Domingo Health Center
University of Pittsburgh\$7,024 Multicenter Clinical Trial to Assess Early vs. Delayed Timing for Surgical Treatment of Multiple Lig
SELINA SILVA Ann & Robert H. Lurie Children's Hospital of Chicago
GEHRON TREME Arthrex, Inc
DePuy Orthopaedics, Inc\$6,000 AO Trauma Basic Principles of Fracture Management Hollywood, CA
DePuy Orthopaedics, Inc\$4,000 AO Trauma Basic Principles of Fracture Management Dallas, TX
DePuy Orthopaedics, Inc\$2,000 AO Trauma Advanced Principles of Fracture Management Dallas, TX
DePuy Orthopaedics, Inc\$2,000 AO Trauma Basic Principles of Fracture Management Hollywood, CA
DePuy Orthopaedics, Inc\$2,000 AO Trauma Basic Principles of Fracture Management Hollywood, CA
DANIEL WASCHER Smith & Nephew, Inc
Pathology
ELAINE BEARER  NIH/National Institute of Mental Health
DOUGLAS CLARK TriCore Reference Laboratories\$2,547,459

UNM Hospital
UNM Medical Group\$154,479 Memorandum of Agreement FY16
KENDALL CROOKSTON Blood Systems Foundation\$69,650 Transfusion Medicine Fellowship
KARISSA CULBREATH Pathogenomix\$8,000 Professional Services Agreement Pathogenomix
TriCore Reference Laboratories\$3,375 Professional Services Agreement TriCore/MALDI Biotyper
TriCore Reference Laboratories\$3,000 Professional Services Agreement Tricore/Prescient CIRCE
TriCore Reference Laboratories\$1,875 Professional Services Agreement/Tricore/Nucleic Acid Test
TRACY GEORGE Blueprint Medicines
TriCore Reference Laboratories\$18,990 Professional Services Agreement Novartis
TriCore Reference Laboratories\$10,000 Professional Services Agreement Novartis
JENNIFER GILLETTE  NIH/National Institutes of Health
NIH/National Institutes of Health\$30,923 Spatiotemporal Analysis of CD82-Mediated Integrin Adhesion
American Medical Association Foundation
<b>DIANE LIDKE</b> NIH/National Institute of General Medical Sciences \$285,264 Single Molecule Imaging to Quantify FCRI Signaling Dynamics
Carnegie Mellon University
University of Texas HSC Houston\$20,000 Mechanisms of Apoptotic Calcium Signaling



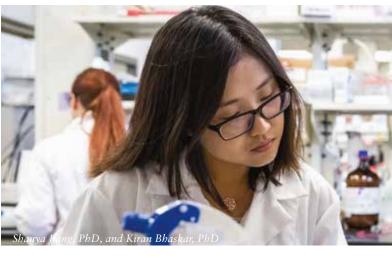
Medical Director and Professional Services

AARON NEUMANN NIH/National Institutes of Health \$408,606 Nano and Microscale Molecular Machines for Innate Immune Sensing of Candida	MOHAMMAD VASEF TriCore Reference Laboratories\$13,500 Professional Services Agreement Tricore/Quorum
American Heart Association	Pediatrics  SHIRLEY ABRAHAM  Oregon State University
American Association of Immunologists	Regional Hemophilia Network-Mountain States  TANYA BAKER-MCCUE
LARRY SKLAR	New Mexico Division of Vocational Rehabilitation \$410,000 DVR Project Search
NIH/National Cancer Institute\$300,525  Illuminating the Druggable Genome Knowledge Management Center	New Mexico Division of Vocational Rehabilitation
University of Otago\$8,853  Nematode Efflux Pump Inhibitor Screen	New Mexico Developmental Disabilities Planning Council\$85,000 Information Network-Medicaid
ANGELA WANDINGER-NESS  NIH/National Institute of General Medical Sciences	New Mexico Developmental Disabilities Planning Council
Boston College\$187,500 IRACDA Plus	New Mexico Developmental Disabilities Planning Council
Boston College\$62,500 IRACDA Plus	KOH BOAYUE St. Baldrick's Foundation
COSETTE WHEELER NIH/National Institute of Allergy and Infectious Diseases \$2,585,548	Children's Hospital of Philadelphia\$1,500 Clinical Trial Phase 3 (Industry Flow-Through Non-Profit)
Epidemiology and Prevention Interdisciplinary Center for Sexually Transmitted Infections	Children's Hospital of Philadelphia\$1,334 Clinical Trial Phase 3 (Federal Flow-Through Non-Profit)
NIH/National Institute of Allergy and Infectious Diseases\$2,549,964 Epidemiology and Prevention Interdisciplinary Center for Sexually Transmitted Infections	LAURA CAFFEY New Mexico Department of Health\$4,774 Summer Asthma Institute
Genera Biosystems Limited\$36,000 PapType Performance in a United States-Based Screening Population	ANTHONY CAHILL El Pueblo Health Service\$115,000
BRIDGET WILSON Los Alamos National Laboratory	Interprofessional Care: Oral Care in Primary Care  New Mexico Developmental Disabilities Planning Council\$10,000  Stipends for the Southwest Disability Planning Council
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	LORETTA CORDOVA DE ORTEGA Truman Health Services
	PHC-Las Cruces, Inc\$6,394 Professional Services/Consultations (w/BAA)



Pediatrics	
SHIRLEY ABRAHAM Oregon State University\$34,250 Regional Hemophilia Network-Mountain States	)
TANYA BAKER-MCCUE  New Mexico Division of Vocational Rehabilitation	)
New Mexico Division of Vocational Rehabilitation	)
New Mexico Developmental Disabilities Planning Council	)
New Mexico Developmental Disabilities Planning Council \$75,000 Information Network-Medicaid	)
New Mexico Developmental Disabilities Planning Council	)
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)	1
LAURA CAFFEY New Mexico Department of Health \$4,774 Summer Asthma Institute	1
ANTHONY CAHILL  El Pueblo Health Service\$115,000  Interprofessional Care: Oral Care in Primary Care	)
New Mexico Developmental Disabilities 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)	1
Mountain View Regional Medical Center\$2,500 Professional Services	)
THERESA CRUZ  New Mexico Department of Health	1
New Mexico Department of Health	)
Presbyterian Healthcare Services\$98,103 REACH Evaluation	3
LEA DAVIES HHS/Health Resources and Services Administration	)
HHS/Health Resources and Services Administration\$50,000 PPC-Administrative Supplement Grant: Making Lifelong Connections	)

SALLY DAVIS  HHS/Centers for Disease Control and Prevention
HHS/Centers for Disease Control and Prevention
New Mexico Department of Health
HHS/Centers for Disease Control and Prevention\$80,000 NOPREN Early Childcare Settings Serving Southwest American Indians and Hispanic Populations SIP 14-027
New Mexico Department of Health\$20,000 Implementing Evidence-Based Recommendations
United Way\$11,200 Promoting Healthy Lives
TARA LYNN DUPONT  New Mexico Department of Health
New Mexico Department of Health\$70,640  Developmental Care Continuity Program (Cost Reim)
GLENDA FALLAS New Mexico Department of Health \$220,895 Social Marketing
RANDY HEIDENREICH  Northern Navajo Medical Center\$4,800  Provide On-Site Pediatric Genetic Clinic Services for the  Northern Navajo Medical Center (Shiprock)
SANDRA HEIMERL Association of Maternal and Child Health Programs\$20,000 New Mexico Act Early State Systems Team
New Mexico Developmental Disabilities Planning Council \$2,500  Legislative Advocacy Workshop
ANDREW HSI  New Mexico Department of Health\$86,500  DDSD Family Infant Toddler Program (BAA)
PATRICIA KEANE New Mexico Human Services Department
ALBERTA KONG Fluor Federal Solutions, LLC
JANE MCGRATH  New Mexico Department of Health\$1,840,000  Albuquerque School-Based Health Center
New Mexico Human Services Department\$1,100,000 Envision NM: The Initiative for Child Healthcare Quality (FY16)
New Mexico Department of Health
New Mexico Human Services Department



Shanya Jiang, PhD, and Kiran Bhaskar, PhD
New Mexico Department of Health
New Mexico Public Education Department\$50,000 GRADS Program
New Mexico Department of Health
New Mexico Department of Health
Symserve\$30,224 Home-Visiting Software Project
New Mexico Department of Health\$30,000 Focus Early Intervention Program
New Mexico Department of Health
New Mexico Department of Health
Apex Education\$15,000 STD Screening and Assessment Tools for an Adolescent Population (Year 2)
New Mexico Department of Health
SHIRAZ MISHRA NIH/National Institutes of Health
NIH/National Institutes of Health \$247,219 SEPA in New Mexico
MARCIA MORIARTA  New Mexico Department of Health
New Mexico Human Services Department\$2,000,000 Improving Quality (75/25 and 50/50 Medicaid Match) Supporting Child Development Through Evidence-Based Practices (FY16)
New Mexico Human Services Department\$2,000,000 Improving Quality (75/25 and 50/50 Medicaid Match) Supporting Child Development Through Evidence-Based Practices (FY17)

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



New Mexico Department of Health
New Mexico Children, Youth & Families Department\$939,672 ACA-Nurse Family Partnership Program (FY17)
New Mexico Department of Health
HHS/Administration for Community Living\$547,000  University Center for Excellence in Development Disabilities Education
New Mexico Department of Health
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
New Mexico Children, Youth & Families Department\$215,471  Early Childhood Infrastructure Development (FY16)
New Mexico Children, Youth & Families Department. \$150,000 Infant Mental Health Team (FY16)
New Mexico Children, Youth & Families Department\$93,000 Infant Parent Psychotherapy (FY16) (BAA)
New Mexico Department of Health\$76,000  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
Rio Rancho Public Schools\$31,130 Rio Rancho Consultation
Roswell Independent Schools\$30,851 Roswell Consultants
Albuquerque Public Schools
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 RAISSY  Vertex Pharmaceuticals Incorporated
Celtaxsys. \$29,752 Clinical Trial Agreement Phase 2
AstraZeneca Pharmaceuticals, LP\$29,598 Clinical Trial Agreement Phase 3
Vertex Pharmaceuticals Incorporated\$21,148 Clinical Trial Phase 3
Vertex Pharmaceuticals Incorporated\$17,790 Clinical Trial Phase 4
MARY RAMOS  W.K. Kellogg Foundation

LESLIE STRICKLER  New Mexico Department of Health
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
New Mexico Department of Health\$52,750  Continuum of Care-Mortality (BAA)
KRISTI WATTERBERG NIH/National Heart, Lung, and Blood Institute
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
CRAIG WONG The Children's Mercy Hospital
Nationwide Children's Hospital\$15,500 Cure Glomerulonephropathy
The Children's Mercy Hospital\$8,770 Ckid Clinical
Psychiatry and Behavioral Sciences
CHRISTOPHER ABBOTT The Mind Research Network \$188,077 Project 5-Abbott-Multimodal Imaging of Neuropsychiatric Disorders: Mechanisms and Biomarkers
CHERYL AINE The Mind Research Network\$57,662 MDA-Aine-Multimodal Imaging of Neuropsychiatric Disorders: Mechanisms and Biomarkers (COBRE II)
The Mind Research Network\$9,311  ADA-Aine-Multimodal Imaging of Neuropsychiatric Disorders:  Mechanisms and Biomarkers (COBRE II)

<b>DEBORAH ALTSCHUL</b> 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
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       \$107,899         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
OptumHealth New Mexico\$25,000 BHSD NM Suicide Prevention Supplement
CAROLINE BONHAM  Albuquerque Area Indian Health Service
New Mexico Human Services Department
New Mexico Behavioral Health Collaborative



NIH/National Institute on Drug Abuse\$7,500 NIMH Outreach Partnership	PAULA HENSLEY INNO Clinical Outcomes, LLC
Juan Bustillo	3D-809-C20 ana C23 Amena # 1
Janssen Scientific Affairs, LLC	Partity Interests
	Brian Isakson
Clinical Trial Agreement Phase 3	HHS/Substance Abuse and Mental Health Services Administ
	COPE Primary Care Integration
The Mind Research Network\$344,937	
ACAM-Bustillo-Multimodal Imaging of Neuropsychiatric Disorders:	OptumHealth New Mexico
Mechanisms and Biomarkers (COBRE)	Optum: Jail Diversion Project
	optum sun 2 mei siem nogeet
The Mind Research Network\$49,514	First Choice Community Healthcare
A Multidimensional Approach for Cognitive Control Deficits	
in Psychopathology	First Choice Community Healthcare Consulting Psychiatry Serv
in sychopulation	
RICHARD CAMPBELL	AVRON KRIECHMAN
	New Mexico Department of Health
New Mexico Governor's Commission on Disability\$25,000	Telehealth School-Based Health Centers
Youth Concussion Surveillance Tool	
	STEPHEN LEWIS
Annette Crisanti	Feinstein Institute for Medical Research
OptumHealth New Mexico\$209,831	
Reducing Homelessness among Persons with Behavioral Health Problems	ACA-Improving Care and Reducing Cost
City of Albuquerque\$131,000	Julie Salvador
Justice and Mental Health Collaboration Program	New Mexico Children, Youth & Families Department
	Communities of Care-YSS Supplement
City of Albuquerque\$101,796	
Justice and Mental Health Collaboration Program	New Mexico Children, Youth and Families Department
Justice and Mental Health Collaboration Frogram	Communities of Care (CYFD SOC Expansion)
D. C. C. C. LO. C. D. L. L. C.	Communities of Care (CTFD 30C Expansion)
Patient-Centered Outcomes Research Institute\$40,121	Harris B. Cressman and
Peer Review Modification ACA-Patient-Centered Trauma Treatment	HELENE B. SILVERBLATT
for PTSD and Substance Abuse	New Mexico Department of Health
	Public Psychiatry Program
OptumHealth New Mexico\$20,000	
Optum Health: Adult Transformation: Healthy Homes	ROBERT THOMA
,	The Mind Research Network
OptumHealth New Mexico\$20,000	Project 4-Thoma-Multimodal Imaging of Neuropsychiatric Dis
Healthy Homes Dissemination	Mechanisms and Biomarkers
ricularly riornes bisserimation	Wechanisms and biomarkers
ERIK ERHARDT	Cr Arne Mire Core
	CLAIRE WILCOX
The Mind Research Network\$15,535	NIH/National Institutes of Health
BNI-Erhardt-Multimodal Imaging of Neuropsychiatric Disorders:	Neural Mechanisms of Change During Alcohol Use
Mechanisms and Biomarkers	Disorder Treatment with Prazosin
MOLLY "MARTHA" FAULKNER	The Mind Research Network
HHS/Substance Abuse and Mental Health Services Administration \$289,985	tDCS and Cognitive Retraining to Augment Pharmacotherapy
Health Professions Student Training (UNM-RUHPS)	
Treature Foressions Student Huming (Orien Norm 5)	Treatment of Nicotine Dependence
DAVID GRAEBER	
Bernalillo County\$76,530	Radiology
Professional Physician Services Bernalillo County Youth Services Center	
	LOREN KETAI
	NIH/National Institutes of Health
	Brain-Centered Therany Versus Medication for



PAULA HENSLEY INNO Clinical Outcomes, LLC
<b>BRIAN ISAKSON</b> HHS/Substance Abuse and Mental Health Services Administration \$399,635 COPE Primary Care Integration
OptumHealth New Mexico\$61,000 Optum: Jail Diversion Project
First Choice Community Healthcare\$25,000 First Choice Community Healthcare Consulting Psychiatry Services
AVRON KRIECHMAN  New Mexico Department of Health
STEPHEN LEWIS Feinstein Institute for Medical Research
JULIE SALVADOR  New Mexico Children, Youth & Families Department\$170,902  Communities of Care-YSS Supplement
New Mexico Children, Youth and Families Department
HELENE B. SILVERBLATT  New Mexico Department of Health
ROBERT THOMA The Mind Research Network
CLAIRE WILCOX NIH/National Institutes of Health\$180,013 Neural Mechanisms of Change During Alcohol Use Disorder Treatment with Prazosin
The Mind Research Network
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
<b>REED SELWYN</b> New Mexico Economic Development Department\$50,000 Closing the Loop Between Impact Data and Radiological Assessments

Surgery	
EDWARD AUYANG  Northwestern University	
ARUP DAS New Mexico Commission for the Blind	
New Mexico Veterans Affairs Medical Center\$68,479 IPA: Carolina Franco Nitta	
New Mexico Commission for the Blind\$60,000 Emergency Eye Care Program	VWRC - ENTE
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)	Dennis Dominguez
DUSANKA DERETIC         NIH/National Institutes of Health       \$378,438         Rhodopsin Trafficking and Photoreceptor Membrane Renewal	New Mexico Children, Youth & Families Department\$22,500 YCHC-Home Visits and Education
KATHERINE MORRIS American Cancer Society	First Nations Community Healthsource, Inc. \$25,000 UNM Care Program
Mountain West Clinical Translational Research- Infrastructure Network\$68,200 G-CSF and G-CSFR as Novel Prognostic Biomarkers in Colorectal Cancer	ROBERT PERRY New Mexico Department of Health\$50,000 Ebola Preparedness Activities
Mountain West Clinical Translational Research- Infrastructure Network	New Mexico Department of Health\$10,000 Hospital Preparedness Services for UNMH
G-CSF and G-CSFR as Novel Prognostic Biomarkers in Colorectal Cancer  JOHN RUSSELL	New Mexico Department of Health\$10,000 Carrie Tingley Hospital Preparedness Services
Kindred Hospital (Transitional Hosp Corp of NM)	New Mexico Department of Health\$10,000 Hospital Preparedness Services for UNMH/Behavioral Health
Eye Associates of New Mexico\$25,000  Professional Services	MICHAEL RICHARDS State of New Mexico \$707,640 Clinical Services-UNMH and SRMC
UNIVERSITY OF NEW MEXICO HOSPITAL	UNIVERSITY OF NEW MEXICO MEDICAL GROUP
RICHARD D'ANGIO  New Mexico Department of Health\$5,996  UNMH Pharmacy Naloxone Procurement Project	ANTHONY MASCIOTRA Albuquerque Area Indian Health Service
WENDY HINE  New Mexico Department of Health\$85,000  Breast and Cervical Cancer Early Detection Program-Screening Services  Case Manager Project	Provider Services Agreement w/SRMC  Albuquerque Area Indian Health Service
FRANCES (KATHY) LOPEZ-BUSHNELL  New Mexico Department of Health	ABQ Health Partners, LLC \$25,000  Professional Service Agreement-Emergency Surgical Services
STEVE MCKERNAN City of Albuquerque\$183,000 Gang Prevention Program FY16	JAMIE SILVA-STEELE  New Mexico Department of Health
City of Albuquerque\$161,970 City of Albuquerque Primary Care Services	Sandoval Regional Medical Center\$25,000  MSA SRMC and UNMMG Schedule VI Director of IP and OP Providers
New Mexico Children, Youth & Families Department\$54,000 YCHC-Home Visits and Education FY16	

Home Visits and Education

State of New Mexico ......\$30,625

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Managing Editor

Michael Haederle

Design, Layout and Illustration

Sara Mota

# Contributing Editors

Furhana Afrid; John Arnold; Cindy Foster; Luke Frank; Pari Noskin; Keiko Ohnuma; Jennifer Ruden; Michele Sequeira

#### Photography

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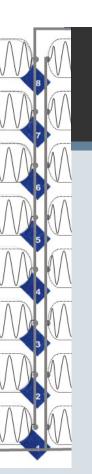
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Office of Research 1 University of New Mexico MSC08-4560, Fitz Hall B-61 Albuquerque, New Mexico 87131-0001 (505) 272-6950 • FAX (505) 272-8738

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