Minutes from the Joint Board of Regents Meeting with NMSU and UNM
Domenici Hall, El Paso Electric Classroom
New Mexico State University
1:00 p.m.
Saturday, September 20, 2014

The joint meeting of the Boards of Regents (BOR) of New Mexico State University and the University of New Mexico was called to order at 12:50 p.m. by NMSU BOR Chairman Mike Cheney. Both Boards of Regents established a quorum with the following members in attendance:

**NMSU Board of Regents**
- Mike Cheney, Chair
- Kari Mitchel, Vice Chair
- Jordan Banegas, Student Regent

**Ex-Officio Members**
- Dr. Stuart Munson-McGee, Faculty Senate
- Mr. Wesley Jackson, ASNMSU President
- Mr. Greg Block, NMSU Employee Council

**UNM Board of Regents**
- Jack L. Fortner, President
- Gene Gallegos
- Brad Hosmer
- Suzanne Quillen
- Heidi Overton, Student Regent

Both presidents of the institutions were in attendance. President Garrey Carruthers of NMSU welcomed UNM President Bob Frank. NMSU’s Provost and Executive Vice President Dan Howard was in attendance from NMSU. Executive Vice President, CFO and COO from UNM, David Harris was in attendance representing his Institution.

The aforementioned dignitaries were introduced at the beginning of the meeting.

The first agenda item was a presentation by Mr. Davis Lepre for the Council of University Presidents addressing the higher education funding formula. The handout which was distributed to the meeting participants is attached to this document.

The second agenda item was a collaborative presentation by Regent Suzanne Quillen if UNM and Regent Karl Mitchell of NMSU. The presentation addressed higher education topics in New Mexico relating to the employability of our graduates. A handout describing the Employability Partnership in New Mexico.
was distributed to meeting participants. Regent Mitchell and Regent Quillen talked about The Bridge and the Early College High School programs gaining focus in southern New Mexico. A recent early college High school focusing on health recently opened in Las Cruces. Another topic highlighted by Regent Mitchell was the statewide workforce board initiative in New Mexico. Both regents noted the emergence of transformational initiatives in New Mexico and how the state is becoming a player in higher education on the national stage. The handout is attached to this document.

The third agenda item was a presentation on articulation by Deputy NMSU Provost Greg Fant. The focus of articulation is to make sure that all courses taken by students at New Mexico universities and community colleges transfer seamlessly from school to school. One of the components of the course transferability and acceptance relates to common numbering across the institutions of higher learning. One significant point made by Provost Fant was the issue that courses generally transfer, but the issue is that they don’t count toward anything in the long run on a student’s degree plan. President Fortner asked several of the students present to express their feeling about how the courses are counted. Many shared stories of having started in one major and then changing so the courses really didn’t fit. For example if you change from engineering to business, there would be a number of courses that would be electives, but not part of the established degree plan. President Fortner shared his own experiences about choosing to go to law school. He said you need to have an intersection of “talent and passion” in choosing what you want to do. Both president Carruthers and President Frank weighed in on the topic saying that having good advising and in most cases faculty advising is a great benefit to the students.

Provost Fant distributed a handout for the articulation discussion. It is attached to this document.

The final agenda item of the day was a joint presentation on cancer research being done collaboratively by Dr. Jeff Arterburn of NMSU and Dr. Eric Prossnitz of UNM. They have been collaborating and publishing for several years. They describe the joint research as being fulfilling and productive for both universities. A discussion with the meeting participants ensued about the need to find more grants to fund the research and how limited the availability of research funding has become.

The meeting was adjourned at 3:00 p.m. by NMSU Board of Regents Chairman Mike Cheney.

Minutes prepared by Dr. Janet Green, Special Advisor to the NMSU Board of Regents, jgreen@nmsu.edu.
I&G Distribution

**FY15 Adopted Formula Run Distribution**

<table>
<thead>
<tr>
<th>Instructional Workload</th>
<th>EOC SCH Dual Credit</th>
<th>90.91%</th>
<th>31.99%</th>
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<td>State Level Priorities</td>
<td>Total Awards</td>
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<td>STEMH Awards</td>
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<tr>
<td></td>
<td>At-Risk Awards</td>
<td>11.89%</td>
<td></td>
</tr>
<tr>
<td>Mission Measures</td>
<td>Research</td>
<td>8.51%</td>
<td></td>
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<tr>
<td></td>
<td>Momentum Points</td>
<td>4.92%</td>
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<td>Net I&amp;G Increase</td>
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**Annual Funding Model Adjustments**

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<td>STEMH Completions</td>
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<tr>
<td>At-Risk Completions</td>
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<td><strong>TBD - FY17</strong> Subject to Productivity Adjustment</td>
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<td>Mission Measures</td>
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<tr>
<td>Instruction Dual Credit</td>
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**FY16 Distribution as Proposed to Steering Committee**

- **EOC SCH** 25%
- **Research** 25%
- **Momentum Points** 25%
- **STEMH Completions** 15%
- **At-Risk Completions** 12%

**Other Adjustments TBD**
- Faculty Compensation
- Staff Compensation
- Mill Levy
- Land Grant Permanent Fund
Distribution Comparison

Percent of Total Distribution

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<th>FY15 Funded</th>
<th>FY16 Proposed</th>
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### Distribution Percentages
**FY16 New Mexico Distributive Model**

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<th>Percent</th>
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<td>New Money Available for Outcomes Funding</td>
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<td>Percent of FY16 to Go Through Outcome Measures</td>
<td>2.0%</td>
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<td>Total FY16 R&amp;M plus Comp</td>
<td>$608,900,400</td>
<td>B</td>
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<td>Total Estimated FY16 R&amp;M (before last share or comp)</td>
<td>$621,078,400</td>
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<td>Amount of FY16 to go through Outcomes (C - B)</td>
<td>$4,007,000</td>
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<tr>
<td>FY16 Not Funded by Outcomes (C - D)</td>
<td>$558,970,600</td>
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<td>Amount to be Shaved from FY15 (D - A)</td>
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<td>Percent of FY15 Shaved for Outcomes Funding (E / B)</td>
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### Distribution of FY16 Funding

- 10%: Amount of FY16 to go through Outcomes (C - B)
- 80%: FY16 Not Funded by Outcomes (C - D)

### Distribution of Outcomes Funding

- 27%: Base Operating (balanced to 100%)
- 14%: EOC SCH
- 13%: At-Risk
- 27%: Mission Specific
- 10%: At-Risk
- 14%: SLMH
- 27%: Awards
- 13%: Mission Specific

### Allocation of Dollars for Mission Specific Measures:

<table>
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<th>Measure</th>
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<th>Total FY16 Operating Distribution</th>
<th>Percent Distribution</th>
<th>Amount Shared from FY25</th>
<th>FY25 Outcomes Funding</th>
<th>FY25 Mid Before Inst. Share</th>
<th>Institutional Share</th>
<th>Compensation</th>
<th>Dollar Change FY25 to FY16</th>
<th>Percent Change FY15 to FY16</th>
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<td>115,640</td>
<td>2,355,700</td>
<td>3,872,100</td>
<td>8,210,500</td>
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### Markdown Table

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### New Mexico Distributive Model (NMDM) Awards Distribution

#### Section 1: Base & EOC SCH

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#### Section 2: Certificates and Degrees Awarded

<table>
<thead>
<tr>
<th></th>
<th>Awards</th>
<th>STEM</th>
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<th>All Certificate and Degree Awards</th>
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#### Section 3: Mission Sensitive Measures

<table>
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<th>Research</th>
<th>MP 30</th>
<th>MP 60</th>
<th>Dual Credit</th>
<th>Mission Measure Total</th>
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<tbody>
<tr>
<td>6,857,400</td>
<td>100%</td>
<td>3,234,300</td>
<td>100%</td>
<td>2,889,800</td>
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<tr>
<td>6,857,400</td>
<td>100%</td>
<td>3,234,300</td>
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<td>2,889,800</td>
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<tr>
<td>6,857,400</td>
<td>100%</td>
<td>3,234,300</td>
<td>100%</td>
<td>2,889,800</td>
</tr>
</tbody>
</table>

#### Research
- 6,857,400 (100%)
- 3,234,300 (47.0%)
- 2,889,800 (42.3%)
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#### MP 30
- 6,857,400 (100%)
- 3,234,300 (47.0%)
- 2,889,800 (42.3%)
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#### MP 60
- 6,857,400 (100%)
- 3,234,300 (47.0%)
- 2,889,800 (42.3%)
- 2,889,800 (42.3%)
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#### Dual Credit
- 6,857,400 (100%)
- 3,234,300 (47.0%)
- 2,889,800 (42.3%)
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#### Mission Measure Total
- 6,857,400 (100%)
- 3,234,300 (47.0%)
- 2,889,800 (42.3%)
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the employability partnership - it's all about the pipeline

90% of welfare recipients are high school dropouts

So... how is the pipeline in New Mexico?

48% of 3rd graders cannot read at grade level

In 4 years, NM will need 50,000 employees who are trained in science, technology, engineering & mathematics

That group is 4x more likely to drop out of high school

93% of those jobs will require a college degree
Entry to Market is Delayed:
1. Higher Ed enrollments are dropping
2. Retention Rates are unacceptable, and are significantly higher than the high school dropout rate.
3. The 4 year degree has become the 6 year plus degree

Workers in the pipeline:
- Dependence on welfare
- Per capita income through markets, not legislation
- Remediation required
- Private vs. Public
- Sector jobs vs. newly created jobs

State Budget - vs ROI
State Budget Allocation - FY13 Remaining 61 Appropriations

The Employability Partnership Board
- Responding to our NM Businesses' demands
- Bi-Partisan
- Private & Public Sector Representation (3-1)
- Pipeline engaged at Cabinet Sec. Level: PED, HED, WFS, ECD, WFS

Business driven

Where will business find a workforce?

Business cycles

Employability partnership
Establish NM as the fastest growing in key indicators in education & economy in the Southwest by 2020 and #1 overall by 2040

Accomplishments To-Date
- Completed a statewide survey of New Mexico businesses
- Working towards data integration
- Incubated the Higher Ed Work Group
- Developed the Business Engagement Committee
- Increase the number of early college high schools

Facing the Truth
- Private sector not viewed as the customer
- Worker delivery system fragmented: inefficiencies & duplication
- Data is decentralized & insufficient
- Investments reward participation not results
- Policy is not evaluated based on employability impact
- Excuse for failed performance: poverty

High-level Strategic Initiatives
- Establish a fully integrated workforce delivery system
- Realize a smarter return on investment
- Establish real accountability for real results
- Champion effective teachers and school leaders
- Develop and implement a business engagement strategy
- Launch a formal public/private entity

What if we all banded together to break the cycle? How can Higher Ed Collaborate?
the employability partnership

THANK YOU
Alignment and Articulation
New Mexico State University/University of New Mexico
Joint Board of Regents Meeting
September 20, 2014

Other Alignment Efforts
- New Mexico Nursing Education Consortium
- Early Childhood Degree programs
- College of Businesses statewide
- NMSU/UNM Engineering course exchange
- UNM/NMSU Cooperative Pharmacy Program
- State Common Core

NMSU
System Wide Course Alignment Initiative

Purpose: To review and align student learning outcomes in courses taught on multiple campuses within the NMSU system.

General Ed Core Course Transfer Curriculum

In accordance to state law (Chapter 21, Article 1B NMSA 1978), the New Mexico Higher Education Department has established policies to guarantee successful transfer of completed core courses between New Mexico postsecondary public institutions.

New Mexico Higher Education Department
Common Core Matrix

Common Core Matrix

<table>
<thead>
<tr>
<th>Course</th>
<th>Algebra</th>
<th>Calculus</th>
<th>College Algebra</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHNM</td>
<td>MATH 101</td>
<td>MATH 111</td>
<td>College Algebra</td>
</tr>
<tr>
<td>EMNU</td>
<td>MATH 100</td>
<td>MATH 113</td>
<td>College Algebra</td>
</tr>
<tr>
<td>NMHU</td>
<td>MATH 101</td>
<td>MATH 113</td>
<td>College Algebra</td>
</tr>
<tr>
<td>NMAC</td>
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<td>MATH 113</td>
<td>College Algebra</td>
</tr>
<tr>
<td>NMSU</td>
<td>MATH 111</td>
<td>MATH 113</td>
<td>College Algebra</td>
</tr>
<tr>
<td>Santa Fe CC</td>
<td>MATH 101</td>
<td>MATH 114</td>
<td>College Algebra</td>
</tr>
<tr>
<td>UNM</td>
<td>MATH 101</td>
<td>MATH 113</td>
<td>College Algebra</td>
</tr>
</tbody>
</table>
What about Articulation?

All New Mexico colleges and universities accept the HED Common Core.

Maximizing transfer credits depends on a student’s clear vision and academic advising toward that vision.

Questions & Discussion
Collaborative Science between NMSU and UNM
Collaborative Science between NMSU and UNM

Eric R. Prossnitz, PhD
Jeffrey B. Arterburn, PhD
Team Science

Helen Hathaway, PhD
Developmental Biology, UNM

Jeffrey Arterburn, PhD
Synthetic Chemistry, NMSU

Larry Sklar, PhD
Center for Molecular Discovery
UNM

Tudor Oprea, MD, PhD
Cheminformatics, UNM

Clinical & Translational Science Center
Productivity

- 23 joint publications since 2005
- >4000 citations (68 total pubs)

**nature chemical biology**

Virtual and biomolecular screening converge on a selective agonist for GPR30

Cristian G Bologa, Chetana M Revankar, Susan M Young, Bruce S Edwards, Jeffrey B Arterburn, Alexander S Kizilyor, Matthew A Parker, Sergey E Tkachenko, Nikolay P Savchuck, Larry A Sklar, Tudor I Oprea & Eric R Prosnitz

**science**

A Transmembrane Intracellular Estrogen Receptor Mediates Rapid Cell Signaling

Chetana M. Revankar, Daniel F. Cimino, Larry A. Sklar, Jeffrey B. Arterburn, Eric R. Prosnitz

**NEWS AND VIEWS**

Untangling the estrogen receptor web

**nature chemical biology**

In vivo effects of a GPR30 antagonist

Megan K Dennis, Ritwik Bursi, Chinnasamy Ramesh, Whitney K Petrie, Sara N Alcon, Tapan K Nayak, Cristian G Bologa, Andrei Leitao, Eugen Brailoiu, Elena Deliu, Nae J Dun, Larry A Sklar, Helen J Hathaway, Jeffrey B Arterburn, Tudor I Oprea & Eric R Prosnitz

**nature chemical biology**

Volume 2 April 2006

**nature chemical biology**

Volume 5 June 2009
Productivity

• 4 R01 grants since 2005
• Multi-PI R01 from 2008-2014 and pending
• Foundation grants: Cowboys for Cancer Research, Stranahan, Oxnard
• >$10M in funding
• Center for Molecular Discovery (>20M in funding)

• 2 patents (U. S. Patent Nos. 7,875,721 & 8,487,100)
• Licensed to Azano Biotech and Accelera Diagnostics
What is the Science?  
Physiological & Disease Roles of Estrogen

**Reproductive system:**  
- breast ductal and lobuloalveolar outgrowth: breast cancer  
- endometrial growth, maturation, menstrual cycle: endometrial/ovarian cancer

**Nervous system:**  
- pain, mood, depression, sleep, neuroprotection: depression, stroke

**Immune system:**  
- inflammatory responses, autoimmunity: multiple sclerosis, arthritis

**Endocrine system:**  
- pituitary, thyroid, adrenal, ovary/testis, pancreas: obesity, diabetes

**Skeletal physiology:**  
- maintenance of bone mass: osteoporosis

**Vascular function:**  
- smooth muscle & endothelial cells: hypertension, atherosclerosis
Complex Interplay between Multiple Receptors

Estrogen Receptors: ERα, ERβ and GPR30/GPER
New Ligands as Potential Drugs and Diagnostic Agents

![Chemical structures of G-1, G15, and G36](image)

![Imaging result](image)
Demonstrated Therapeutic Indications for G-1/G15/G36

Cancer:
- Breast (anti-hormone resistant, triple negative)
  and endometrial cancer (and others)

Nervous system:
- Depression
- Stroke

Immune system:
- Multiple sclerosis

Endocrine system:
- Diabetes
- Obesity

Vascular function:
- Hypertension
- Atherosclerosis
- Myocardial Infarct
- Renal Disease
Drug Development Pipeline

- Blockbuster drugs:
  - Lipitor $12.5 B/yr
  - Plavix $9 B/yr
  - Nexium $8 B/yr

- Repurposing

Costs:
- $10M
- $10M
- $30M
- $100M
- $10M → $1B & 10+ years
Timeline: GPER DD Pipeline

- Target identification: GPER (2002)
- Screening compounds (2004)
- Efficacy in disease models (2007-present)
- Initial Preclinical Pharmacokinetics/Safety/Toxicity (2011)....
- Clinical Studies Phase I/II/III (future ?)
Challenges

• NIH and other funding <10% percentile
• Consequence: faculty spend >>> time writing grants vs doing experiments
• Gaps in research funding damage programs
  Survival = bridge funding but institutional resources are limited/unavailable
• Magnitude of costs to complete the transition from preclinical success to clinical studies = “Valley of Death”
• How can we help the next generation of faculty scientists develop and survive?
The NM-INBRE champions biomedical research excellence in the state of New Mexico through the development of innovative, supportive and sustainable research environments for faculty and students, while building a network of lead scientists and educators at the state, regional and national level.

PI/Director: Dr. Jeffrey B. Arterburn
Regents Professor, Dept. of Chemistry & Biochemistry
New Mexico State University

Partner Institutions...
- University of New Mexico
- Eastern New Mexico University
- New Mexico Institute of Mining & Technology
- New Mexico Highlands University
- Northern New Mexico College
- San Juan College
- National Center for Genome Resources
- Western New Mexico University

NIH NIGMS Grant Number 2P20GM103451-14

NM-INBRE Program Significant Outcomes and Impacts (since 2001)

- Funded **47 faculty investigators** across the state. Many have achieved independent extramural funding
- Mentored and supported faculty, resulting in **32 successful tenure applications**
- **Student training:**
  - **233 American Indian tribal college students** introduced to biomedical research opportunities through sponsored recruiting events
  - **100 students annually** provided laboratory or community-based research experience
  - **769 students trained** at partner institutions, since 2001
  - 40 student internships in clinical, translational, and community-based research
- **Published 427 research articles** in scientific journals
- Provided **1316 research presentations** by faculty and students at national and international meetings
- **$44,006,853** in new, external research funding awarded to New Mexico institutions
- Secured **funds to build a 1500 sq. ft. exercise center at the Zuni Pueblo**, as part of an initiative to eliminate health disparities affecting New Mexico’s Zuni Indians
2014 NM-INBRE Investigators at New Mexico State University

Kevin Houston, Assistant Professor, Chemistry & Biochemistry
Understanding the mechanisms leading to resistance to a popular medication (tamoxifen) which is used to treat breast cancer. Resistance to tamoxifen has been linked to lower survival rates in breast cancer patients.

Patricia Lodato, Assistant Professor, Biology
Investigating a strain of the bacterial pathogen, Escherichia coli O157:H7, and how its virulence is controlled. This could lead to strategies to treat or prevent the diseases it causes—diarrhea, kidney failure, and nervous system problems.

Becky Keele, Associate Professor, Nursing
Developing culturally acceptable interventions to increase regular exercise among Mexican-American preschool-age children. Promoting exercise in young children may reduce risk factors for many chronic diseases, such as obesity and diabetes, which can begin early in life.

Mingzhou Joe Song, Associate Professor, Computer Science
Investigating the genes that control cancer cells’ invasion of surrounding body tissues. This work may lead to improved strategies for treating cancer.

Timothy Wright, Associate Professor, Biology
Examining the effects of alcohol consumption on learning and brain function, using parakeets as an animal model for how adults learn new languages. This is especially important among our growing immigrant population.
2014 NM-INBRE Investigators at University of New Mexico

Colleen Fordyce, Assistant Research Professor, Biochemistry & Molecular Biology
Examining the way that breast cancer cells manage pH in order to proliferate. A possible therapy for breast cancer may focus on controlling the pH-regulating enzyme that enables cancer cells to multiply.

Jennifer Gillette, Assistant Professor, Pathology
Identifying critical molecules involved in the initiation and progression of a type of leukemia called chronic lymphocytic leukemia (CLL) that attacks the blood and bone marrow. This understanding may enable the development of improved therapies and prognostic tools.

Ramachandra Gullapalli, Assistant Professor, Pathology; Chemical & Nuclear Engineering
Investigating the causes of gallbladder cancer in three ethnic populations—American Indians, Hispanics, and Caucasians—to improve methods of diagnosis and risk analysis. This work will result in better therapy options for patients with a highly fatal form of the disease.

Charles Melancon III, Assistant Professor, Chemistry & Chemical Biology
Harnessing technical tools from biology, chemistry, computer science, and engineering to identify naturally occurring chemical products that may treat diseases such as cancer and multi-drug resistant microbial infections.

Vallabh Raj Shah, Associate Professor, Biochemistry & Molecular Biology; Internal Medicine
Assessing the effectiveness of diet, physical activity, behavioral weight loss, and weight control interventions for pre-diabetic adults and children of the American Indian Zuni community.
Additional Collaborations fostered by NIH IDeA Program

Shared access to core facilities through the following:
- COBRE at UNM
  - Integrative Program in CNS Pathophysiology Research
  - UNM Mind Research Network: Multimodal Imaging of Neuropsychiatric Disorders (MIND)
- Center for Evolutionary and Theoretical Immunology (CETI)
- Center for Molecular Discovery (CMD)
- Clinical & Translational Research Center (CTSC)

Shared student research training
- NM-INBRE Summer Experience (NMSU)
- Undergraduate Pipeline Network (UNM)
- Direct research experience on NM-INBRE Projects (all participating institutions)
- Partnership with other student research training programs: RISE, MARC, Bridges, HHMI (NMSU); IRACDA (UNM)
The Mountain West Research Consortium (MWRC) and Clinical Translational Research Infrastructure Network (CTR) are comprised of 11 academic institutions working to build capacity for transformative biomedical research and improve health outcomes within the region. Activities include opportunities for collaboration and research training, access to shared resources and services joint pilot funding, VIVO networking, mini-sabbaticals, junior faculty mentoring, and an undergraduate biomedical research pipeline program.