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

Ex-Officio Members

Mike Cheney, Chair

Dr. Stuart Munson-McGee, Faculty Senate

Kari Mitchel, Vice Chair

Mr. Wesley Jackson, ASNMSU President

Jordan Banegas, Student Regent

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 Kari 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.

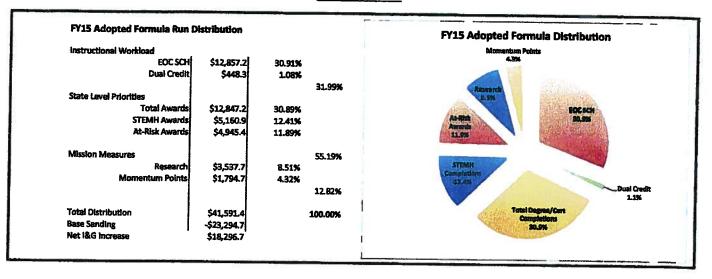
The meeting was adjourned at 3:00 p.m. by NMSU Board of Regents Chairman Mike Cheney.

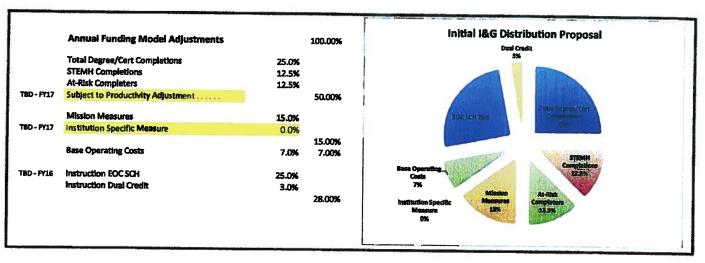
Minutes prepared by Dr. Janet Green, Special Advisor to the NMSU Board of Regents, igreen@nmsu.edu.

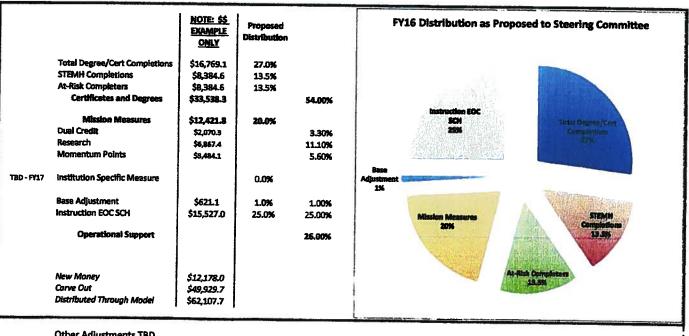
President, Board of Regents

secretary, Board of Resports

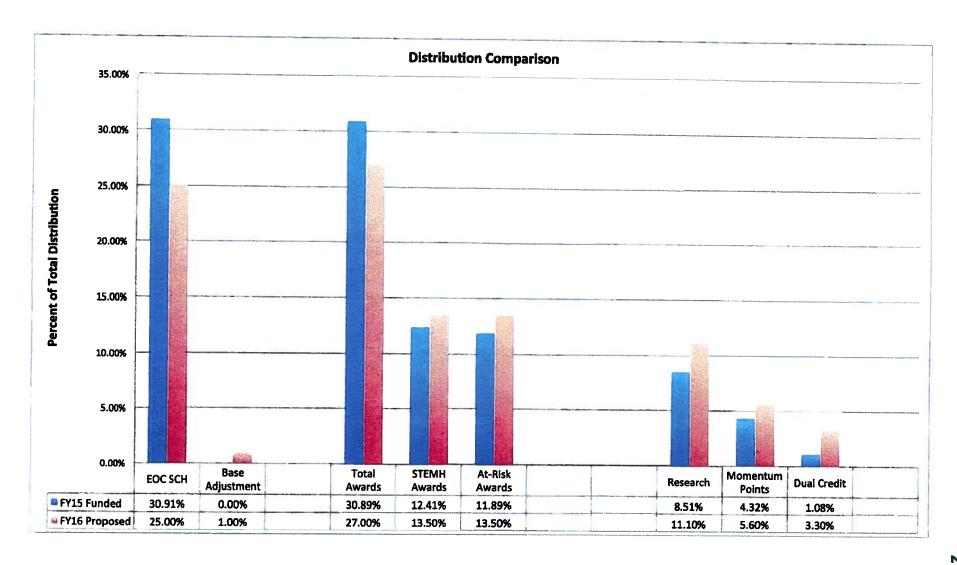
1&G Distribution







Other Adjustments TBD
Faculty Compensation
Staff Compensation
Mil Levy
Land Grant Permanent Fund



Distribution Percentages FY16 New Mendco Distributive Model 16-Sep-14

| New Money Available for Outcomes Funding Percent of FY16 to Go Through Outcome Measures | 2.0% 10.0% | \$12,178,000 | A P |
|--|---------------|--------------------------------|--------|
| Total FY15 I&G plus Comp Total Estimated FY16 I&G (before inst share or comp) (A + B) | | \$608,900,400 \$621,078,400 | В |
| Amount of FY16 to go through Outcomes (C * p) | | \$62,107,800 | D |
| FY16 Not Funded by Outcomes (C - D) | | \$558,970,600 | |
| Amount to be Shaved from FY15 (D - A) Percent of FY15 Shaved for Outcomes Funding (E / B) | 8.2% | \$49,929,800 | E |

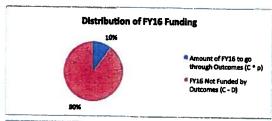
Dual Credit Funding (B)

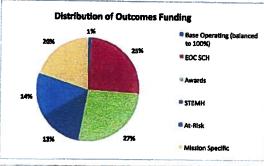
tribution of Outcomes Funding

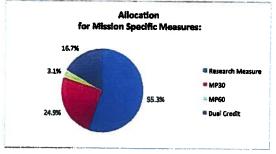
| Total (dollar values rounded to nearest \$100) | 100.0% | \$62,108,000 |
|--|--------|--------------|
| Base Operating (balanced to 100%) | 1,0% | \$621,100 |
| EOC SCH | 25.0% | \$15,527,000 |
| Awards | 27.0% | \$16,769,100 |
| STEMH | 13.5% | \$8,384,600 |
| At-Risk | 13.5% | \$8,384,600 |
| Mission Specific | 20.0% | \$12,421,600 |

Allocation of Dollars for Mission Specific Measures:

| | FY15 | | | | | | | | |
|------------------|------|--------------|---------|-------------|-------|--|--|--|--|
| | FY: | S Allocation | Percent | | | | | | |
| Research Measure | \$ | 3,537,706 | 55.3% | \$6,867,400 | 11.1% | | | | |
| MP30 | \$ | 1,593,969 | 24.9% | \$3,094,200 | 5.0% | | | | |
| MP60 | \$ | 200,769 | 3.1% | \$389,700 | 0.6% | | | | |
| Dual Credit | \$ | 1,066,500 | 16.7% | \$2,070,300 | 3.3% | | | | |
| | \$ | 6,398,944 | 100.0% | | | | | | |







FY16 New Mexico Distributive Model

17-Sep-14

New Money X

New Money Available for Outcomes Funding

Percent of FY15 to Go Through Outcome Measures

Percent of FY15 Shaved for Outcomes Funding

| Total | 100.0% | 62,108,000 |
|------------------|--------|------------|
| Base Operating | 1.0% | 621,100 |
| EOC SCH | 25.0% | 15,527,000 |
| Awards | 27.0% | 16,769,100 |
| STEMH | 13.5% | 8,384,600 |
| At-Risk | 13.5% | 8,384,600 |
| Mission Specific | 20.0% | 12,421,600 |

2.00%

12,178,000

10.00%

8.20%

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | R | 0 | • | 10 | | 9529 |
|-----------------|-----------------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|------------------------|--------------|-------------------------------|----------------------------|--|
| Institution | Total FY15 Operating Distribution | Percent Distribution | Amount Shaved from FY15 | FY26 Outcomes Funding | FY16 I&G Before Inst. Share | Percent Distribution | Dollar Change FY15 to FY16 | Percent Change FY15 to FY16 | Institutional Share | Compensation | Dollar Change FY15 to FY16 | FY15 Total | Ending Percent Distribution |
| Grand Total | 608,900,400 | 100.00% | (49,929,700) | 62,100,600 | 621,079,300 | 100.0% | 12,178,900 | 2.0% | - | 0 | 12,178,900 | 621,079,300 | A STATE OF THE PARTY OF THE PAR |
| NM Tech | 27,508,300 | 4.52% | (2,255,700) | 2,872,800 | 28,125,400 | 4,53% | 617,100 | 2.74 | | | | SE DESIGNE | |
| NM State | 118,112,500 | 19.40% | (9,685,200) | 12,239,500 | 120,666,800 | 19.43% | 2.554.300 | 2.2% | 0 | - 0 | 617,100 | 28,125,400 | |
| UNM | 189,147,900 | 31.06% | (15,510,100) | 20,058,200 | 193,696,000 | 31.19% | 4,548,100 | 2.4% | | | - | 120,666,800 | 19.43% |
| Research Total | 334,768,700 | 54.98% | (27,451,000) | 35,170,500 | 342,488,200 | 55.14% | 7,719,500 | 2.3% | 0 | 0 | 4,548,100 7,719,500 | 193,696,000 842,488,200 | 31.19% \$5.14% |
| Eastern | 27,540,200 | 4.52% | (2,258,300) | 2,860,800 | 28,142,700 | 4,53% | 602,500 | 2.2% | | | 602,500 | 28,142,700 | |
| Highlands | 28,195,600 | 4.63% | (2,312,000) | 2,797,000 | 28,680,600 | 4.62% | 485,000 | 1.7% | 1 8 | _ | 485,000 | 28,680,600 | 4.53% |
| Northern | 10,853,700 | 1.78% | (890,000) | 730,300 | 10,694,000 | 1.72% | -159,700 | -1.5% | 0 | 1 6 | 159,700 | 10,694,000 | 1.72% |
| Western | 17,102,600 | 2.81% | (1,402,400) | 1,899,900 | 17,600,100 | 2.83% | 497,500 | 2.9% | 0 | | 497,500 | 17,500,100 | 2.83% |
| Regional Total | 83,692,100 | 13.74% | (6,862,700) | 8,288,000 | 85,117,400 | 13.70% | 1,425,300 | 1.7% | 0 | 0 | 1,425,300 | 85,117,400 | 13.70% |
| Eastern Roswell | 11,991,700 | 1,97% | (983,300) | 1,130,300 | 12,138,700 | 1.95% | 147,000 | 1.2% | | | 147,000 | 12,138,700 | 1.95% |
| Eastern Ruidoso | 2,128,300 | 0.35% | (174,500) | 177,100 | 2,130,900 | 0.34% | 2,600 | 0.1% | 0 | i öl | 2,600 | 2,130,900 | 0.34% |
| NMSU Alamogordo | 7,895,700 | 1.30% | (647,400) | 536,000 | 7,784,300 | 1.25% | -111,400 | -1.4% | ō | i ol | -111,400 | 7,784,300 | 1.25% |
| NMSU Carlsbad | 4,259,400 | 0.70% | (349,300) | 346,400 | 4,256,500 | 0.69% | -2,900 | -0.1% | i of | ő | 2,900 | 4,256,500 | 0.69% |
| NMSU Dona Ana | 23,165,800 | 3.80% | (1,899,600) | 2,350,400 | 23,616,600 | 3.80% | 450,800 | 1,9% | 1 0 | i ol | 450,800 | 23,616,600 | 3.80% |
| NMSU Grants | 3,622,100 | 0.59% | (297,000) | 254,000 | 3,579,100 | 0.58% | -43,000 | -1.2% | 0 | 0 | -43,000 | 3,579,100 | 0.58% |
| UNM Gallup | 9,272,300 | 1.52% | (760,300) | 568,800 | 9,080,800 | 1.46% | -191,500 | -2.1% | 0 | 0 | 191,500 | 9,080,800 | 1.45% |
| UNM Los Alamos | 1,905,100 | 0.31% | (156,200) | 126,000 | 1,874,900 | 0.30% | -30,200 | -1.6% | 0 | 0 | 30,200 | 1.874,900 | 0.30% |
| UNM Tags | 3,488,300 | 0.57% | (286,000) | 397,800 | 3,600,100 | 0.58% | 111,800 | 3.2% | 0 | 0 | 111,800 | 3,600,100 | 0.58% |
| UNM Valencia | 5,545,800 | 0.91% | (454,800) | 537,000 | 5,628,000 | 0.91% | 82,200 | 1.5% | 0 | 0 | 82,200 | 5,628,000 | 0.91% |
| CNM | 55,448,600 | 9.11% | (4,546,800) | 7,241,100 | 58,142,900 | 9.36% | 2,694,300 | 4.9% | 0 | 0 | 2,694,300 | 58,142,900 | 9.36% |
| Clovis | 9,895,100 | 1.63% | (811,400) | 889,100 | 9,972,800 | 1.61% | 77,700 | 0.8% | 0 | 0 | 77,700 | 9,972,800 | 1.61% |
| Luna | 7,444,900 | 1.22% | (610,500) | 390,500 | 7,224,900 | 1.16% | 220,000 | -3.0% | Ö | i ol | 220,000 | 7,224,900 | 1.16% |
| Mesalands | 4,244,000 | 0.70% | (348,000) | 279,600 | 4,175,600 | 0.67% | -68,400 | -1.6% | o | ō | -68,400 | 4,175,600 | 0.67% |
| NMJC | 5,532,900 | 0.91% | (453,700) | 617,700 | 5,696,900 | 0.92% | 164,000 | 3.0% | ō | o o | 164,000 | 5,696,900 | 0.92% |
| San Juan | 24,786,600 | 4.07% | (2,032,500) | 1,749,700 | 24,503,800 | 3.95% | -282,800 | -1.1% | 0 | ō | -282,800 | 24,503,800 | 3.95% |
| Santa Fe | 9,813,000 | 1.61% | (804,700) | 1,058,600 | 10,066,900 | 1.62% | 253,900 | 2.6% | 0 | 0 | 253,900 | 10,066,900 | 1.62% |
| CC Total | 190,439,600 | 31.28% | (15,616,000) | 18,650,100 | 193,473,700 | 31.15% | 3,034,100 | 1.6% | 0 | 6 | 3,034,100 | 193,471,700 | 31.15% |

New Mexico Distributive Model (NMDM) Awards Distribution

| Institution | PYIS | Total FY | Total FY16 | | tion 1: Base & EOC SCH Section 2: Certificates and Degrees Awarded | | | | | | | | | ttion 1: Base & EOC SCH Section 2: Certificates and Degrees Awarded | | | | | | | | | | | Ser | tion 3: I | Mission Sensitiv | e Measures | - | | |
|-------------|--------------|------------------|------------|------------------|--|------------|--------|------------|--------------|---------------|-------|-----------|--------|---|-------|--------------------------|-------|-------------------|--------|----------------|-------------------|---|------------|----------|-----------|-----------|------------------|------------|---|--|--|
| | Distribution | Outcomes Funding | | Outcomes Funding | | Base Ope | rating | EOC S | СН | Awan | ts | STEM | LH . | At-RE | ık | All Certific Degree A | | Resea | rch | MP 3 | 0 | MP 60 | Dual C | redit | Mission A | | | | | | |
| Total | 100.00% | 62,100,600 | 100% | 621,100 | 100% | 15,527,000 | 100% | 16,769,100 | 100% | 8,384,600 | 100% | 8,384,600 | 100% | 33,531,200 | 100% | 6,867,400 | 100% | 3.094.200 | 100% | 289,700 100 | 2,070,300 | 1009 | | | | | | | | | |
| Tech | 4,52% | 2,572,800 | 465 | | | 3 | 1,000 | | The state of | Sec. 1 Record | | | | | | | V-The | | | #45,700 LUC | 2,070,300 | J IDOM | 12,422,100 | 1007 | | | | | | | |
| State | 19,40% | 12,739,500 | 19.7% | 28,100 | 4,5% | 496,900 | 3.2% | 554,100 | 3.3% | 425,100 | 5.1% | 134,400 | 1.6% | 1,113,600 | 3.3% | 1,234,200 | 18.0% | | 13 | | | | 1,234,200 | 9.99 | | | | | | | |
| LIMM | 31.06% | 20,058,200 | 32,8% | 120,500 | 19,4% | 3,005,800 | 19,4% | 3,941,200 | 23.5% | | 18.5% | | 18.6% | 7,051,900 | 21.0% | 2,060,300 | 30.0% | al - | - | | | | 2.060.300 | 71120200 | | | | | | | |
| Research | 54,98% | 35,170,500 | SLOW | 192,900 | THE PERSONNEL PROPERTY. | 4,785,200 | 30.8% | 6,435,600 | 38.5% | 2,347,800 | | - | 32.2% | 11,507,200 | 34.3% | 3,572,900 | 52.0% | | 36 8 | | | | 3,572,900 | | | | | | | | |
| | | 32,174,300 | 2079/8 | 341,500 | 55.0% | 8,288,900 | 53,4% | 10,950,900 | 65.3% | 4,321,800 | 51.5% | 4,400,000 | \$2.9% | 19,672,700 | 51L7% | 6,857,400 | 100% | | 452 | 25 B 1 6 A 3 6 | 0 | 1418 | 6,857,400 | | | | | | | | |
| Eastern | 4,52% | 2,860,600 | 4.6% | 28,100 | 4.5% | 748,400 | | | | | | 100 | | | | | - | | T | xandali sati | | 10 | | - | | | | | | | |
| Highlands | 4,63% | 2,797,000 | 4.5% | 28,800 | 4.6% | 687,500 | 4.894 | 798,000 | 4.8% | 260,900 | 3.1% | | 5.5% | 1,516,800 | | | 134 | 195,200 | 6.3% | 183,100 47.01 | 189,200 | 9.1% | 567,500 | 4.636 | | | | | | | |
| Northern | 1,70% | 730,300 | 1.7% | 11,100 | 1.8% | 162,100 | 1.090 | 935,200 | 5.6% | 462,500 | 5.5% | | 5.9% | 1,896,200 | | 21.445 | | 81,100 | 2.6% | 70,400 18.1 | 33,000 | Les | | | | | | | | | |
| Western | 2.02% | 1,093,000 | 3.7% | 17,400 | 2.8% | 429,400 | 2.8% | 426,900 | 2.5% | 114,500 | 1.416 | | 14% | 326,800 | | | | 62,700 | 2.0% | 52,300 13.4 | 115,300 | 5.6% | 230,300 | | | | | | | | |
| Regional | 13.74% | 8,288,000 | 13.990 | 85,400 | 13.7% | 2,027,400 | 13.1% | 2,253,200 | 13.4% | 196,000 | 2.3% | 294,800 | 3.5% | 917,700 | | A SHAPE | | 132,100 | 4.3% | 83,900 21.51 | 319,400 | 15.4% | 535,400 | 4.3% | | | | | | | |
| | | | | | | 200700 | 25-20 | 4,430,400 | AL AND | 1,033,900 | 12.3% | 1,370,400 | 15.35 | 4,657,500 | 13.9% | No. 24 Person | 1 | 471,100 | 15.2% | 389,700 1009 | 656,900 | 31.7% | 1,517,700 | 12.29 | | | | | | | |
| Roswell | 1.97% | 1,130,300 | 1.896 | 12,200 | 2,0% | 286,200 | 1.8% | 189,500 | 1.1% | 270,700 | 3.2% | **** | | | | | | | 17 8 | | | X10 (- | | Tine: | | | | | | | |
| Ruidaso | 0.35% | 177,100 | 0.8% | 2,200 | 0.3% | 53,200 | 0.396 | 16,500 | 0.1% | 31,900 | 0.4% | 119,700 | 0.2% | 579,900 64,200 | 1.7% | | 300 | 130,100 | 4.2% | | 121,900 | 5.9% | 252,000 | 2,0% | | | | | | | |
| Alamogordo | 1.30% | 534,000 | 0.9% | 8,100 | 1.3% | 177,300 | 1.190 | 91,200 | 0.5% | 38,700 | 0.5% | 79,200 | 0.976 | 209,100 | 0.6% | | 12.1 | 22,300 | 0.7% | | 35,200 | 2.20 | | 0.5% | | | | | | | |
| Cartsbad | 0.70% | 345,400 | 0.6% | 4,300 | 0.7% | 110,000 | 0.7% | 40,300 | 0.2% | 22,500 | 0.3% | 31,900 | 0.4% | 94,700 | 0.376 | | - 1 | 76,400 | 2.5% | | 65,100 | 10.000 | | 1.190 | | | | | | | |
| Dona Ana | 3.80% | 2,350,400 | 3.8% | 23,600 | 3.8% | 626,300 | 4.0% | 459,400 | 2.7% | 307,500 | 3,7% | 407,500 | 4.9% | L174.400 | 3.5% | 10.7 | | 61,400 | 2.0% | | 76,000 | | , | 1.290 | | | | | | | |
| Grants | 0.59% | 254,000 | 0.4% | 3,700 | 0.6% | 64,800 | 0.4% | 41,600 | 0.296 | 21,800 | 0.3% | 41,500 | 0.5% | 104,900 | 0.3% | | | 400,500 | 12.9% | | 125,600 | 7.127.000 | | 4.2% | | | | | | | |
| Gailup | 1.52% | 568,600 | 0.9% | 9,500 | 1.5% | 206,800 | 1.3% | 84,600 | 0.5% | 50,100 | 0.6% | 85,400 | 1.0% | 221,100 | 0.7% | | | 31,800 130,400 | 1.0% | | 48,800 | 1000000 | 80,600 | 0.6% | | | | | | | |
| Los Alamos | 0.31% | 126,000 | 0.2% | 1,900 | 0.3% | 38,000 | 0.2% | 18,900 | 0.196 | 5,800 | 0.1% | 9,600 | 0.1% | 34,300 | 0.1% | | | 26,800 | 0.9% | | 1,000 | 0.0% | 131,400 | 1.1% | | | | | | | |
| Taos | 0.57% | 397,800 | 0.690 | 3,600 | 0.6% | 103,200 | 0,790 | 27,500 | 0.296 | 26,300 | 0.3% | 34,100 | 0.4% | 87,300 | 0.3% | to miles | | 51,000 | 1.6% | | 25,000 152,100 | 1.000 | 51,800 | 0.406 | | | | | | | |
| Valenda | 0.91% | 537,000 | 0.9% | 5,700 | 0.9% | 142,600 | 0.9% | 75,800 | 0.5% | 55,700 | 0.7% | 73,000 | 0.9% | 204,500 | 0.574 | | 48.0 | 97,500 | 3.2% | | 86,700 | V/10-00 | 203,100 | 1.6% | | | | | | | |
| CNM | 9.11% | 7,241,100 | 11.7% | 56,600 | 9.1% | 1,897,000 | 12.2% | 1,601,500 | 9.6% | 1,347,600 | 16.1% | 1,109,500 | 13.2% | 4.058,600 | 12.1% | | 200 | 941,100 | 30,436 | | 287,800 | 100000 | 194,200 | 9.9% | | | | | | | |
| Clovis | 1.63% | 889,100 | 1.4% | 10,100 | 1,6% | 195,400 | 1.3% | 191,100 | 1.1% | 218,800 | 2.6% | 140,300 | 1.7% | 550,200 | 1.6% | | - 19 | 82,700 | 2.7% | | 50,700 | 100000000000000000000000000000000000000 | 133,400 | 1.1% | | | | | | | |
| Luna | 1.22% | 390,500 | 0.6% | 7,600 | 1.2% | 108,500 | 0.7% | 70,600 | 0.470 | 64,300 | 0.896 | 61,900 | 0.7% | 196,800 | 0.6% | Lan 25 | | 30,000 | 1.0% | | 47,600 | 2.3% | 77,600 | 0.636 | | | | | | | |
| Messlands | 0.70% | 279,600 | 0.5% | 4,300 | 0.7% | 57,200 | 0.4% | 42,600 | 0.3% | 93,700 | 1.1% | 22,000 | 0.3% | 158,300 | 0.5% | 1 | | 14,700 | 0.5% | | 45,100 | 2.2% | 59,800 | 0.5% | | | | | | | |
| NMJC | 0.91% | 617,700 | 1.0% | 5,600 | 0.9% | 190,800 | 126 | 105,700 | 0.5% | 41,800 | 0.5% | 56,100 | 0.7% | 206,600 | 0.0% | 100 | | 121,200 | 3.9% | | 93,500 | 4.5% | 214,700 | 1.7% | | | | | | | |
| San Juan | 4.07% | 1,749,700 | 2.8% | 25,300 | 4.1% | 615,400 | 4.0% | 293,700 | 1.8% | 270,500 | 3.2% | 192,400 | 2.3% | 756,600 | 2.3% | 200 | DATE: | 260,000 | 8.4% | | 92,400 | 4.5% | 352,400 | 2.8% | | | | | | | |
| Santa Fe | 1.61% | 1,058,600 | 1.7% | 10,000 | 1.6% | 338,100 | 2.2% | 211,400 | 1.3% | 161,100 | 1.5% | 133,400 | 1.6% | 505,900 | 1.5% | es-ell fil | | 145,400 | 4.7% | | 59,200 | 2.9% | 204,600 | 1.6% | | | | | | | |
| CCA | 31.28% | 18,650,100 | 30.0% | 194,300 | 31.3% | 5,210,800 | 33.6% | 3,564,900 | 21.3% | 3,028,000 | 35.2% | 2,614,300 | 31.2% | 9,200,000 | 27.5% | 100 | | 2,673,300 | 84.8% | - | 1,413,700 | 68.3% | 4,037,000 | 17.00 | | | | | | | |

the employability partnership has all about the pipisine

90% of welfare recipients are

high school dropouts

So this is the ultreller in place in place.

rd graders cannot read

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

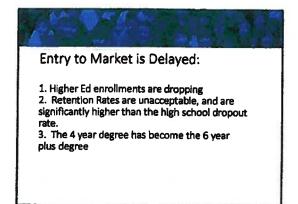
That group is

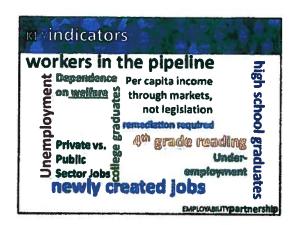
4x

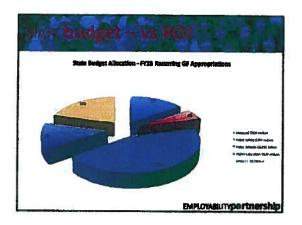
more likely to drop out of high school

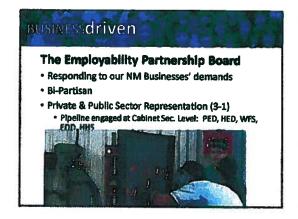
93%

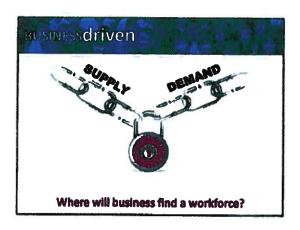
of those jobs will require a college degree

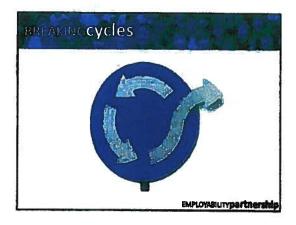












ourmission

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

EMPLOYABILITYPARTNERSHIP

OURSUccesses

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

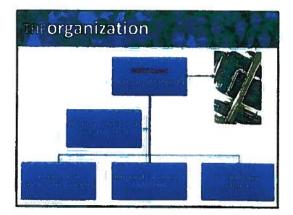
EMPLOYABILITYPArtnership

OVERCOMINGCHAllenges

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 falled performance: poverty

EMPLOYABILITYPArtnership



ourstrategies

High -level Strategic Initiatives

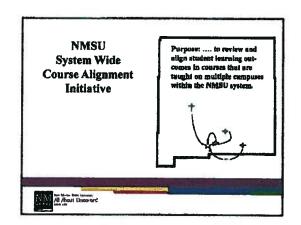
- Establish a fully integrated workforce delivery system
- · Realize a smarter return on investment
- Establish real accountability for real results
- Champion effective teachers and school leaders
- Develop and implement a business engagement strategy
- · Launch a formal public/private entity

EMPLOYABILITY PARTNERShip

What if
we all banded
together to
break the cycle?
How san Higher Ed

the
employability
partnership





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

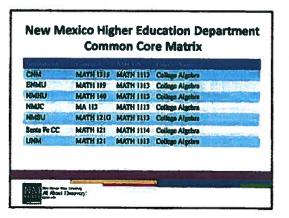


General Ed Core Course Transfer Curriculum

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 Construct and enteryon graphs and/or data sets. Use and solve various binds of equations Understand and write mathematical explanations using appropriate definitions and symbols. Demonstrate problem solving skills within the content of mathematical applications and in the content of mathematical applications.



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.









Collaborative Science between NMSU and UNM

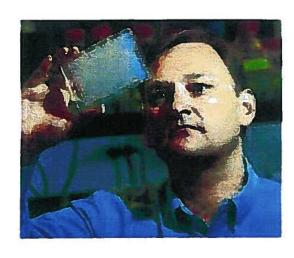








Collaborative Science between NMSU and UNM



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





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^{1,7}, Chetana M Revankar^{2,3,7}, Susan M Young³, Bruce S Edwards^{3,4}, Jeffrey B Arterburn⁵, Alexander S Kiselyov⁶, Matthew A Parker⁶, Sergey E Tkachenko⁶, Nikolay P Savchuck⁶, Larry A Sklar^{3,4}, Tudor I Oprea¹ & Eric R Prossnitz^{2,3}

NATURE CHEMICAL BIOLOGY VOLUME 2 APRIL 2006

nature chemical biology

In vivo effects of a GPR30 antagonist

Megan K Dennis¹, Ritwik Burai², Chinnasamy Ramesh², Whitney K Petrie¹, Sara N Alcon¹, Tapan K Nayak¹, Cristian G Bologa³, Andrei Leitao³, Eugen Brailoiu⁴, Elena Deliu⁴, Nae J Dun⁴, Larry A Sklar^{5,6}, Helen J Hathaway^{1,5}, Jeffrey B Arterburn^{2,5}, Tudor I Oprea^{3,5} & Eric R Prossnitz^{1,5}

NATURE CHEMICAL BIOLOGY VOLUME 5 JUNE 2009



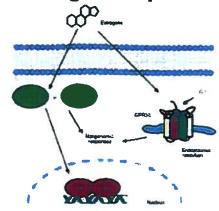
A Transmembrane Intracellular Estrogen Receptor Mediates Rapid Cell Signaling

Chetana M. Revankar, 1,2 Daniel F. Cimino, 1,2 Larry A. Sklar, 2,3 jeffrey B. Arterburn, 4 Eric R. Prossnitz 1,24

SCIENCE VOL 307 11 MARCH 2005

NEWS AND VIEWS

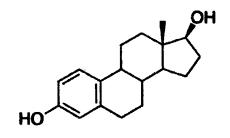
Untangling the estrogen receptor web



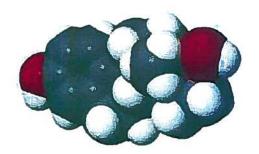
Productivity

4 R01 grants since 2005

- **GPER** ERα
- 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

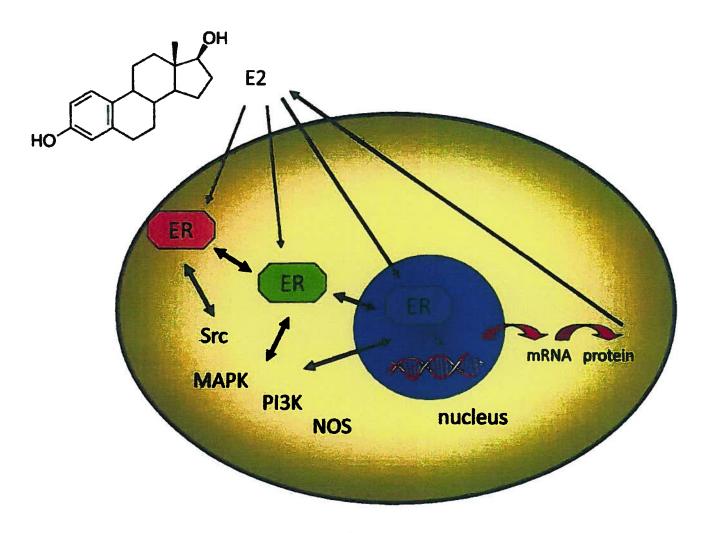
Skeletal physiology:

-maintenance of bone mass: osteoporosis

Vascular function:

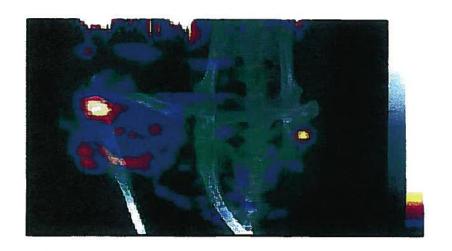
-smooth muscle & endothelial cells: hypertension, atherosclerosis

Complex Interplay between Multiple Receptors



Estrogen Receptors: ER α , ER β and GPR30/GPER

New Ligands as Potential Drugs and Diagnostic Agents



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:

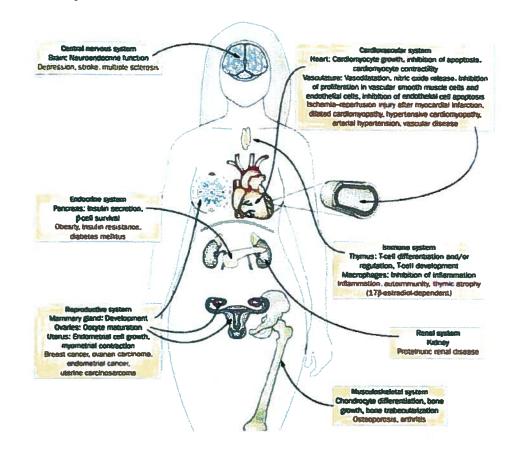
-Multiple sclerosis

Endocrine system:

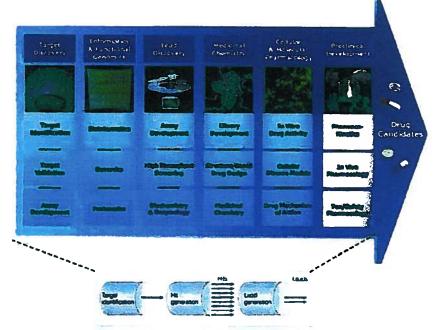
- -Diabetes
- -Obesity

Vascular function:

- -Hypertension
- -Atherosclerosis
- -Myocardial Infarct
- -Renal Disease



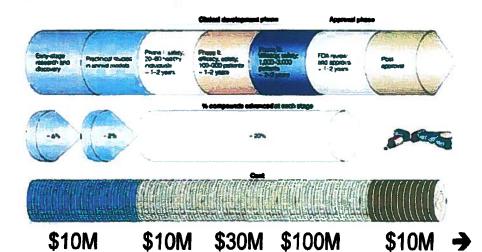
Drug Development Pipeline



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

\$1B & 10+ years

Repurposing



Timeline: GPER DD Pipeline

- Target identification: GPER (2002)
- Assay development (2003)
- Screening compounds (2004)
- Lead Identification (2005, file patents, issued 2011, 2013)
- 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 ?



Funded by the Institutional Development Award (IDeA)
National Institutes of Health (NIH) since 2001

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.



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

*Competitive Renewal Proposal Funded 2014-2019 Total \$18.14M

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





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

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)

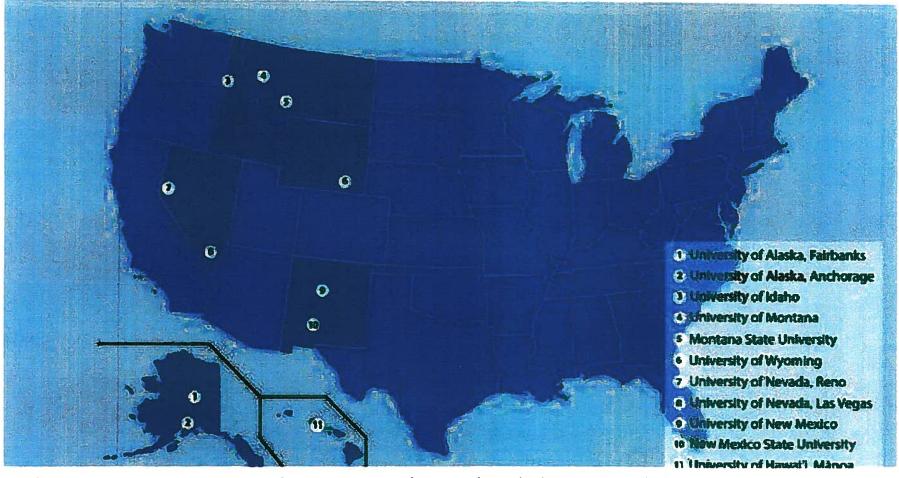








MOUNTAIN WEST RESEARCH CONSORTIUM INSTITUTIONS



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