



DEPARTMENT OF  
BIOLOGY

UNM DEPARTMENT OF BIOLOGY  
27<sup>th</sup> ANNUAL RESEARCH DAY  
March 22 & 23, 2018

ORAL PRESENTATIONS

9:00–10:45 a.m., Friday, March 23, 2018

Each presentation is 12 minutes long plus 3 minutes for questions.  
The bolded author is the presenter.

† Undergraduate Student, \* Postbaccalaureate Student, ‡ Graduate Student

SESSION 1, 51 Casteretter Hall

**Moderators:** [to be named]

- 9:00 1 Identifying Substrates of Circadian Clock Regulated CRY1 or CRY2 Dependent SCF-FBXL3 Mediated Degradation.  
**Valerie Perea** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, and Department of Chemical Biology, UNM; Stephanie J. Papp and Katja A. Lamia, The Scripps Research Institute, La Jolla CA.
- 9:15 2 Interactions between *Toxoplasma gondii* and Retinoic Acid-differentiated Neuro-2A Neuroblastoma Cells.  
**Alicia Romero** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; and Eric Y. Denkers, Center for Evolutionary and Theoretical Immunology (CETI), Department of Biology, UNM.
- 9:30 3 Comparison of External Bacterial Diversity of New Mexican *Myotis velifer* Bats in New Mexico Gypsum and Carbonate Caves.  
**Ally M. Weidner** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; Ara S. Winter, Department of Biology, UNM; Debbie C. Buecher, Buecher Biological Consulting, Tucson AZ; Edwards W. Strach, Patrick L. Lewis and Diana E. Northup, Department of Biology, UNM.
- 9:45 4 Computational Costs of Fitting Tomogram Tiltseries of Flexible Molecules with Gaussian Mixture Models.  
**Elena Delgado** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; Kasra Manavi and Lydia Tapia, Department of Computer Science, UNM.
- 10:00 5 Moderate Prenatal Alcohol Exposure Produces Deficits in the Extinction of Contextually Conditioned Fear Learning in Adult Female Rat Offspring.  
**A.H. Moezzi** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; J.L. Wagner, N.S. Graham, K.H. Christensen, D.R. Barto, S. Davies, D.A. Hamilton and D.D. Savage, Department of Neurosciences, Health Sciences Center, UNM.

- 10:15 6 Novel Sensors for Detecting Alzheimer's Disease Related Tau Protein Aggregates.  
**Salomon L. Aires** †, Initiative for Maximizing Student Development (IMSD), and Department of Biology, UNM; Florencia Monge, Biomedical Engineering Graduate Program, and Center for Biomedical Engineering, UNM; David G. Whitten and Eva Y. Chi, Center for Biomedical Engineering, and Department of Chemical and Biological Engineering, UNM.
- 10:30 7 Activation of the Signaling Intermediates  $\beta$ -catenin by the Intracellular Protozoan Parasite *Toxoplasma gondii*.  
**Hoang V. Bui** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; Cameron H. Ranken and Eric Y. Denkers, Center for Evolutionary and Theoretical Immunology (CETI), Department of Biology, UNM.

## SESSION 2, 57 Castetter Hall

**Moderators:** [to be named]

- 9:00 8 Developing an Essential Amino Acid  $\delta^{13}\text{C}$  Library for Tracing the Importance of Biofilms and Biocrusts in Aquatic and Terrestrial Ecosystems.  
**Alexi C. Besser** ‡, Emma A. Elliott Smith, Department of Biology, UNM; Adam Barkalow, American Southwest Ichthyological Researchers, LLC, Albuquerque NM; David Camak, Thomas F. Turner and Seth D. Newsome, Department of Biology, UNM.
- 9:15 9 Defining the Role of CG1674 in Adult Muscle Development.  
**Emily Czajkowski** †, Marilyn Cisneros and Richard M. Cripps, Department of Biology, UNM.
- 9:30 10 Adult Muscle Formation in *Drosophila melanogaster* Is Influenced by *miR-31b* and *miR-987*.  
**Daniel Lloyd Wilson** †, Tracy Dohn and Richard M. Cripps, Department of Biology, UNM.
- 9:45 11 Quantification and Visualization of DNA Single Strand Transposon Insertions.  
**Emily Alden** \*, Flybase, Postbaccalaureate Research and Education Program (PREP), Department of Biology, UNM; and Jeremy Edwards, Department of Chemistry and Chemical Biology, UNM.
- 10:00 12 Synthesis and Characterization of Colloidal ZnT/ZnSe Quantum Dots.  
**Gavin Gonzales** †, Maximizing Access to Research Careers (MARC), Department of Biology, and Center for High Technology Materials, UNM, and Department of Physics and Astronomy, UNM; Arjun Senthil, Nathan Withers, Gema Alas, Alejandro Sandoval III, Christina Minetos, Center for High Technology Materials, UNM; Sergei A. Ivanov, Center for Integrated Nanotechnologies, Los Alamos National Laboratory, Albuquerque NM; Gennady A. Smolyakov, Center for High Technology Materials, UNM; Dale L. Huber, Center for Integrated Nanotechnologies, Sandia National Laboratories, Albuquerque NM; and Marek Osiński, Center for High Technology Materials, UNM.
- 10:15 13 Isolation and Gene Flow Affect the Diversification of a South Pacific Bird: The Foulehaio Honeyeater Complex.  
**Xena M. Mapel** †, Department of Biology, UNM; Alice Cibois, Muséum National d'Histoire Naturelle, Paris, France; Tejashree H. Modak, Department of Biology, Boston University, Boston MA; Robert G. Moyle, Biodiversity Institute, University of Kansas, Lawrence KS; Aliverti Naikatini, Institute of Applied Science, University of the South Pacific, Suva, Fiji;

Joshua O. Seamon, Department of Marine and Wildlife Resources, American Samoa Government, Pago Pago, American Samoa; Michael D. Sorenson, Department of Biology, Boston University, Boston MA; Jean-Claude Thibault, Muséum National d'Histoire Naturelle, Paris, France; Ruth B. Utzurrum, University of Hawaii, Hilo HI; and Michael J. Andersen, Department of Biology, UNM.

- 10:30 14 Evolutionary Dynamics of Elevational Ranges in Andean Birds.  
**Chauncey R. Gadek** ‡ and Christopher C. Witt, Department of Biology, UNM.
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## POSTER PRESENTATIONS

Friday, March 23, 2018

SESSION 1, 11:00 a.m–12:30 p.m.

The bolded author is the presenter.

† Undergraduate Student, \* Postbaccalaureate Student, ‡ Graduate Student

- 15 Lipid Production by Bacteria in the Pyloric Caeca and Intestine of Trout.  
**Alejandra De La Cruz** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; Seth D. Newsome and Irene Salinas, Department of Biology, UNM.
- 16 How Will Climate Change Induced Microbial Migration Effect Alpine Plants?  
**Danielle A. Duarte** †, Department of Biology, UNM; Jennifer A. Rudgers and Joshua S. Lynn, Department of Biology, UNM, and Rocky Mountain Biological Laboratory, Gothic CO.
- 17 The Brown Garden Snail *Cornu aspersum*: A Model to Broaden the Scope of Snail Immunity.  
**Erin Watson-Chappell** ‡ and Coenraad Adema, Department of Biology UNM.
- 18 Immobilization of Enzymes on Carbonaceous Materials for Catalytic Cascades Enhancement.  
**Jose Monclova** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, and Department of Chemical and Biological Engineering, UNM; Madelaine Seow Chavez, Ivana Gonzales and Plamen Atanassov, Department of Chemical and Biological Engineering, UNM.
- 19 Creating Cellular Patterns Using Genetically Engineered, Gold- and Cell-binding Polypeptides.  
**Dominic J. Medina** \*, Postbaccalaureate Research and Education Program (PREP), Department of Biology, and Biomedical Engineering, UNM; Linying Li, Chia-Kuei Mo, Ashutosh Chilkoti, Department of Biomedical Engineering, Duke University, Durham NC; Gabriel P. Lopez, Department of Chemical and Biological Engineering, UNM; and Nick J. Carroll, Biomedical Engineering, UNM, and Department of Chemical and Biological Engineering, UNM.
- 20 Generation of Gene-edited Conditional *Hnrnp1* Knockouts with an HA-Tag Reporter to Understand the Role of *Hnrnp1* in Methamphetamine Sensitivity.  
**Diego Trujillo**, UNM; Qiu Ruan, School of Medicine, Boston University, Boston, MA; and Cameron Bryant, School of Medicine, Boston University, Boston, MA.
- 21 (Withdrawn.)

- 22 Medicinal Plant Extraction and Analysis.  
**Shania Sanchez** †, Victor French, Department of Biology, UNM; and Tracy Terry, Department of Chemistry, UNM–Valencia Campus.
- 23 Regulation of Long Noncoding RNA during *Toxoplasma gondii* Infection.  
**Breanne E. Haskins** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; Kayla L. Menard and Eric Y. Denkers, Department of Biology and Center for Evolutionary and Theoretical Immunology (CETI), UNM.
- 24 A Biomechanical Justification for Conservative Management of Partial Extensor Tendon Lacerations.  
**Darielys Mejías Morales** \*, Postbaccalaureate Research and Education Program (PREP), Department of Biology, and Department of Orthopaedics and Rehabilitation, UNM; Jasmin Regalado, Department of Mechanical Engineering, School of Engineering, UNM; Patrick Gilligan, Deana Mercer and Christina Salas, Department of Orthopaedics and Rehabilitation, UNM.
- 25 Horizontal Gene Transfer in the *Mycobacterium tuberculosis* Complex.  
**Julie Allison Spencer** ‡, Department of Biology, UNM.
- 26 Detection of the Human Parasite *Schistosoma mansoni* and Intermediate Host *Biomphalaria glabrata* in Water by Using eDNA.  
**O.L. Weinbaum** \*, Flybase, Postbaccalaureate Research and Education Program (PREP), Department of Biology, UNM; B.K. Hanna and E.S. Loker, Department of Biology, UNM.
- 27 The Role of Fructose-1,6-bisphosphate as an Assembly Factor for Vacuolar ATPase.  
**Casey T. Simoes** \*, Postbaccalaureate Research and Education Program (PREP), Department of Biology, and Department of Biochemistry and Molecular Biology, School of Medicine, UNM; Summer R. Hayek and Karlett J. Parra, Department of Biochemistry and Molecular Biology, School of Medicine, UNM.
- 28 Nanopillar Analysis for the Manipulation of Indium Gallium Arsenide Quantum Well Compositions Using Stress Transfer.  
**Kimberly Toddy** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, and Department of Chemical and Biological Engineering, UNM; Brian D. Rummel, NanoScience and MicroSystems Engineering, and Center for High Technology Materials, UNM; and Sang M. Han, Department of Chemical and Biological Engineering, and NanoScience and MicroSystems Engineering, and Center for High Technology Materials, UNM.
- 29 TNF- $\alpha$  Priming Regulates CD82 Expression and Bone Marrow Homing of Hematopoietic Stem and Progenitor Cells.  
**Erica M. Pascetti** \*, Postbaccalaureate Research and Education Program (PREP), Department of Biology, and Department of Pathology, UNM; Christina M. Termini, Muskan Floren and Jennifer M. Gillette, Department of Pathology, UNM.
- 30 Comparison among Sky-island Haemosporidian Communities Reveals Dynamics of Parasite-species Turnover and Host-switching.  
Lisa N. Barrow, Department of Biology, UNM; **Selina M. Bauernfeind** \*, Flybase, Postbaccalaureate Research and Education Program (PREP), Department of Biology, UNM; Christopher C. Witt, Matthew J. Baumann, Serina S. Brady, Department of Biology, UNM; Andrea N. Chavez, Bureau of Land Management, Albuquerque NM; Paxton A. Cruz, John E. Ford, Chauncey R. Gadek, Department of Biology, UNM; Spencer C. Galen, American Museum of Natural History, New York NY; Andrew B. Johnson, Xena M. Mapel, Rosario A. Marroquin-Flores, Taylor E. Martinez, Jenna M. McCullough, Jade McLaughlin, Daniele L. Wiley, and Jessie L. Williamson, Department of Biology, UNM.

- 31 Characterization of Rapid Nasal Antiviral Immune Responses in Zebrafish.  
**Aurora Kraus** ‡ and Irene Salinas, Department of Biology, UNM.
- 32 Response of Grasshoppers and Crickets to Low-severity Wildfire in a Ponderosa Pine Forest of the Jemez Mountains: Can Low-severity Wildfires Be Beneficial?  
**Marlo G. McCarter** † and Mark A. Ward, Division of Arthropods, Museum of Southwestern Biology (MSB), Department of Biology, UNM.
- 33 Abnormal Brain Structure in Adults Who Commit Homicide.  
**Ashly Sajous-Turner**\*, Postbaccalaureate Research and Education Program (PREP), Department of Biology, UNM, and The Mind Research Network, Albuquerque NM; and Kent Kiehl, Department of Psychology, UNM, and The Mind Research Network, Albuquerque NM.
- 34 The Paradoxical Giant Hummingbird: Comparison of Andean and Coastal Subspecies with Respect to Blood, Migration, and Genes.  
**Jessie L. Williamson** ‡, Selina M. Bauernfeind, Chauncey R. Gadek, Museum of Southwestern Biology (MSB), Department of Biology, UNM; Natalia Ricote-Martinez, Francisco Bozinovic, Departamento de Ecología, Pontificia Universidad Católica de Chile, Santiago, Chile; and Christopher C. Witt, MSB, Department of Biology, UNM.
- 35 FcRN Gene Expression within the Gut of Developing *Monodelphis domestica*.  
**Kimberly Morrissey** †, Bethaney D. Fehrenkamp and Robert D. Miller, Center for Evolutionary and Theoretical Immunology (CETI), Department of Biology, UNM.
- 36 Triploid Atlantic Salmon (*Salmo salar* L.) Gill Microbiome Is More Resilient to Bacterial Infection than That of Diploid Atlantic Salmon.  
**Ryan M. Brown** †, Department of Biochemistry, UNM; Sonal Patel, Institute of Marine Research, Bergen, Norway; and Irene Salinas, Department of Biology, UNM.
- 37 Plant Mating Strategy Affects Probability of Island Colonization.  
**Timothy Ohlert** ‡, Department of Biology, UNM; and Emma Goldberg, Department of Ecology, Evolution, and Behavior, University of Minnesota, St. Paul MN.
- 38 Role of the G Protein-Coupled Estrogen Receptor in Breast Cancer Metastasis.  
**Katrina Baca** †, Initiatives to Maximize Student Diversity (IMSD), and Department of Biology, Department of Biochemistry, and Department of Cell Biology and Physiology, Health Sciences Center, UNM; Niki Marjon, Department of Cell Biology and Physiology, Health Sciences Center, UNM; Eric Prossnitz, Department of Internal Medicine, Health Sciences Center, UNM; and Helen Hathaway, Department of Cell Biology and Physiology, Health Sciences Center, UNM.
- 39 The Role of OPAQUE1 Myosin in Asymmetric Cell Division in Maize.  
**Janette Mendoza** ‡ and Michelle R. Facette, Department of Biology, UNM.
- 40 Assessment of Intra- and Interregional Genetic Variation in the Eastern Red-backed Salamander, *Plethodon cinereus*, via Analysis of Novel Microsatellite Markers.  
**Alexander C. Cameron** ‡, Department of Biology, UNM; Jeffrey J. Anderson, Medical College of Wisconsin, Milwaukee WI; and Robert B. Page, Department of Science and Mathematics, Texas A&M University, San Antonio TX.
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## SESSION 2, 1:30–3:00 p.m.

The bolded author is the presenter.

† Undergraduate Student, \* Postbaccalaureate Student, ‡ Graduate Student

- 41 Characterization of Somatic Muscle Gene, Holes in Muscles (Him), in *Drosophila*.  
**Samuel Mckitrick** †, Department of Biology, UNM.
- 42 Pramipexole, a Dopamine D2/D3 Receptor Agonist, May Act to Modulate Pain Signaling in the Dorsal Horn Spinal Cord to Reduce Chronic Neuropathic Pain.  
**Jacob Sanchez**\*, Postbaccalaureate Research and Education Program (PREP), Department of Biology, UNM, and Department of Neurosciences, UNM; Arden Vanderwall, Melody Sun, Jayapriya Chandrasekaran, Monique Nysus, Department of Neurosciences, UNM; Rodrigo Escalona, Department of Psychiatry, UNM; and Erin Milligan, Department of Neurosciences, UNM.
- 43 Fluorescence Lifetime Imaging of Senescence-associated Beta-Galactosidase.  
**Ashton L. Sigler** †, Maximizing Access to Research Careers (MARC), Department of Biology, UNM; Jun Liu, Paul Henderson, Philip Deenik and Lina Cui, Department of Chemistry and Chemical Biology, UNM.
- 44 Cardiac Fibroblasts as Modulators of the Failing Heart ECM.  
**Steven Guerin**\*, Postbaccalaureate Research and Education Program (PREP), Department of Biology, and Department of Pharmaceutical Sciences, College of Pharmacy, UNM; Dawn A. Delfin and Elizabeth McKown, Department of Pharmaceutical Sciences, College of Pharmacy, UNM.
- 45 Quantifying Consumer Forage, Flower, and Fruit Availability Using Plant Phenology Data.  
**Alesia Hallmark** ‡, Department of Biology, UNM.
- 46 Rac1 Overexpression Changes Cell Growth and Morphology in Ovarian Cancer Cell Lines.  
**Sara Asfan** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, and Department of Biochemistry and Molecular Biology, UNM; Martha Grimes, Dayna Dominguez, Michaela Granados, Department of Pharmaceutical Sciences, College of Pharmacy, UNM; Angela Wandinger-Ness, Department of Pathology, School of Medicine, UNM; and Laurie G. Hudson, Department of Pharmaceutical Sciences, College of Pharmacy, UNM.
- 47 Effects of Wildfire on Climate Sensitive Species *Ochotona princeps*.  
**Kelly A. Lizewski** †, Marie L. Westover, Department of Biology, UNM; Erik A. Beever, Northern Rocky Mountain Science Center, USGS, Bozeman MT; and Felisa A. Smith, Department of Biology, UNM.
- 48 High Reproductive Success of Bonytail Reared in Off-channel Habitats.  
Megan Osborne, **Brian Fitzgerald** †, and **Charisa Bell** †, Division of Fishes, Museum of Southwestern Biology, Department of Biology, UNM.
- 49 Characterization of the T-cell Receptor Repertoire in *Protopterus dolloi*: Searching for the Evolutionary Origins of Dermal  $\gamma\delta$  T Cells.  
**Alissa Cabada-Gomez** †, Ryan Heimroth, Gabriela Padiar, Susana Magadan and Irene Salinas, Department of Biology, UNM.

- 50 Optimizing Schistosomiasis Treatment Timing with Respect to Seasonal Fluctuations in the Force of Infection.  
**Larissa Anderson** ‡, Department of Biology, UNM; and Helen J. Wearing, Department of Biology, and Department of Mathematics and Statistics, UNM.
- 51 Water Source Analysis Utilizing Sap Flux and Budyko Analysis.  
**Devon Fisher-Chavez** †, Marcy E. Litvak, William T. Pockman, Cheng-Wei Huang and Robert Pangle, Department of Biology, UNM.
- 52 Microbes that Masquerade as Minerals.  
**Joseph Medley** †, Diana Northup, Department of Biology, UNM; and Michael Spilde, Institute of Meteoritics, UNM.
- 53 From Our Collections: Mammals Evolving Our Knowledge.  
**Lindsey Frederick** ‡, Department of Biology, UNM.
- 54 Dark Septate Endophyte and Host Relationship Responses under Simulated Future Climates.  
**Katherine Anderson** †, Jennifer A. Rudgers and Katlin Beaven, Department of Biology, UNM.
- 55 Development of a SNP Assay for Assessment of Genetic Diversity and Parentage Assignment in Gila Trout.  
**David Camak** ‡ and Thomas F. Turner, Department of Biology, UNM.
- 56 Probing Photosynthesis.  
**Estania Jean Charles** †, John Roesgen and David T. Hanson, Department of Biology, UNM.
- 57 Fleas of Beringian Shrews (*Sorex* spp.).  
Laurel Cenac, **Lizon Cenac** †, Division of Genomic Resources, Museum of Southwestern Biology, Department of Biology, UNM; Ralph Eckerlin, Animal Parasitic Diseases Laboratory, Agricultural Research Service, U.S. Department of Agriculture, Beltsville, MD; Mariel L. Campbell and Joseph A. Cook, Division of Genomic Resources, Museum of Southwestern Biology, Department of Biology, UNM.
- 58 Are Caves a Source of Bat Microbiota? A Comparison of Bacterial and Fungal Communities in Caves and Cave Roosting Bats in El Malpais National Monument, New Mexico.  
**Nicole A. Caimi** ‡, Jennifer J.M. Hathaway, Department of Biology, UNM; Debbie C. Buecher, Buecher Biological Consulting, Tucson AZ; and Diana E. Northup, Department of Biology, UNM.
- 59 The Role of *Shigella sonnei* in Intranasally Infected Non-Transgenic Mice (C57BL6/J).  
**Gabriela Padial** †, Elisa Casadei, Center for Evolutionary and Theoretical Immunology (CETI), Department of Biology, UNM; Devon Chisholm, Department of Molecular Genetics and Microbiology, Health Sciences Center, UNM; Kiran Bhaskar, Neurobiology Research Facility, Department of Molecular Genetics and Microbiology, Health Sciences Center, UNM; and Irene Salinas, CETI, Department of Biology, UNM.
- 60 R-Ketorolac Inhibition of Rho GTPases in Ovarian Cancer.  
**Alejandra Rosales**\*, Flybase, Post-Baccalaureate Research and Education Program (PREP), UNM; Martha Grimes, Dayna Dominguez, Michaela Granados, Department of Pharmaceutical Sciences, College of Pharmacy, UNM; Melanie Rivera, Angela Wandinger-Ness, Department of Pathology, School of Medicine, UNM; and Laurie Hudson, Department of Pharmaceutical Sciences, College of Pharmacy, UNM.

- 61 The Involvement of the Myogenic Gene *nautilus* in Muscle Development.  
**Jonathon Cordova** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; and Richard M. Cripps, Department of Biology, UNM.
- 62 Maximization of Microbial Fuel Cell Power Output Utilizing Bimetallic Cathode Catalysts.  
**Sergio Herrera** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM, and Department of Chemical and Biological Engineering, UNM; Carlo Santoro, Mounika Kodali and Plamen Atanassov, Center for Micro-Engineered Materials, Department of Chemical and Biological Engineering, UNM.
- 63 (Withdrew.)
- 64 Myocardin Related Transcription Factors (MRTFs) Transgenic Lines: ‘Dominant Negative’ and ‘Constitutively Active’ Analysis in *Drosophila melanogaster*.  
**Praveen Paudel** †, Tracy Dohn and Richard M. Cripps, Department of Biology, UNM.
- 65 The Role of the Vacuolar Ion Transport Genes VCX1 and VNX1 in *C. Albicans* Filamentation, Secretion, and Virulence.  
**Esteban Abeyta** †, Initiatives to Maximize Student Diversity (IMSD), Department of Biology, UNM; Samuel Lee, Hallie Rane and Stella Bernardo, New Mexico VA Healthcare System, Albuquerque NM.
- 66 ABA-ontrolled Chemically Induced Proximity Approach to Control CAR T Cells Activity Targeting GD2 Antigen Presenting Solid State Tumors.  
Fu Sen Liang, Huong Nguyen, Department of Chemistry and Chemical Biology, UNM; **Brynn E. Cullander** †, Maximizing Access to Research Careers (MARC), Department of Biology, UNM, and Department of Chemistry and Chemical Biology, UNM.
- 67 Fabrication of a Smart Hydrogel for Encapsulation of Poly(Ethylene Glycol).  
**Darnell L. Cuylear** †, Maximizing Access to Research Careers (MARC), Department of Biology, and Center for Biomedical Engineering, UNM; Phuong A.H. Nguyen, Center for Biomedical Engineering, UNM; and Heather E. Canavan, Center for Biomedical Engineering, and Department of Chemical and Biological Engineering, UNM.
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