



New Mexico State University – Howard Hughes Medical Institute Science Education Program

Research Scholars Presentations at National/ Local Conferences 2007–2017

2007

Soto, W., J. Gutierrez, M.K. Nishiguchi. New Mexico State University 2007. Salinity optical density profiles of bioluminescent *Vibrio fischeri* from free-living and symbiotic environments. Society for Integrative and Comparative Biology, Annual Meeting.

Abstract at <http://www.sicb.org/meetings/2007/schedule/abstractdetails.php?id=253>

Delgado, A., R. Lamichhane-Khadka, S. Zaman, A. Muthaiyan, B. J. Wilkinson, and J. E. Gustafson. September 2007. The Fusidic Acid Shock Stimulon of *Staphylococcus aureus*. Intersci. Conf. on Antimicrobial Agents & Chemotherapy 47.

Kreher, J., D. Miranda, and C.B. Shuster. December 2007. Titration of the Spindle assembly Checkpoint in Early Embryonic Cells. Annual Meeting of the American Society for Cell Biology 47.

Abstract at http://ascb.org/files/Past-AM-Meetings/2007_Abstracts.pdf Page 415

2008

Gonzalez E, L. Dylla, S. Lambeth, and J. Curtiss. April 2008. A role for the small GTPase Rap1 in eye development. Annual Drosophila Research Conference 49th.

Abstract at http://www.drosophila-conf.org/2008/pdf/dros_program_abstr_final_web.pdf

Page 225.

2010

Steritz, M. March 2010. *Anopheles gambiae*: multiple immune surveillance mechanism for gut commensal microbes. The American Society of Tropical Medicine and Hygiene 59th Annual Meeting. Atlanta, GA.

Carpenter, V. March 2010. Characterization of SLC7-type amino acid transporters in the yellow fever mosquito, *Aedes aegypti*. The American Society of Tropical Medicine and Hygiene 59th Annual Meeting. Atlanta, GA.

Aguirre, S. March 2010. Creation of a transgenic mosquito strain for use as a tool in the manipulation of nutrient accumulation in the larval stage using the hexamerin promoter. The American Society of Tropical Medicine and Hygiene 59th Annual Meeting. Atlanta, GA.

Norman, K. May 2010. Calf Age is a Greater Influence on Rumen Bacterial Population Dynamics than Dam Gestational Supplemental Nutrition. [American Society for Microbiology](http://coronasc.nmsu.edu/documents/calf-rumen-poster.pdf). New Orleans, LA.

<http://coronasc.nmsu.edu/documents/calf-rumen-poster.pdf>

Bendixsen, D. December 2010. Influence of Tree Size on Susceptibility to Pecan Nut Casebearer in New Mexico. Entomology Society of America. San Diego, CA.

Bendixsen, D. December 2010. Triatomid Bugs in Southeastern New Mexico: A survey for potential vectors of Chagas disease. Entomology Society of America. San Diego, CA.

Baldauf, M. November 2010. Multiple Immune Surveillance Mechanisms to Regulate Gut Microbes in the Anopheles Gambiae mosquito. The American Society of Tropical Medicine and Hygiene 59th Annual Meeting. Atlanta, GA.

http://www.astmh.org/AM/Template.cfm?Section=Abstracts_and_Education1&Template=/CM/ContentDisplay.cfm&ContentID=2841 Pg 226

Basham, J. March 2010. The Staphylococcus aureus Tea Tree Oil Stimulon. IDeA Networks of Biomedical Research Excellence. Santa Fe, NM.

Silva, J. September 2010. Cytomegalovirus-specific T cell Memory and Functionality in HIV Infected Subjects before and after Initiation of Antiretroviral Therapy. SACNAS. Anaheim, CA.

Garcia, M. September 2010. Effect of a Quit and Win Contest Intervention on Tobacco Cessation in Rural Hispanics. SACNAS. Anaheim, CA.

2011

Norman, K. May 2011. Exceptional Research Opportunities Program Annual Conference. Chevy Chase, MA.

Pease, S. 2011. Offspring sex ratio in the lilac-crowned parrot (*Amazona finshi*). Society for Integrative and Comparative Biology. Salt Lake City, UT.

<http://biology-web.nmsu.edu/twright/publications/Peaseyetal2012WilsonJO rnPROOFS.pdf>

Aguilar, D., A. Chavez, R. W. Preszler, and M. K. Nishiguchi. May 2011. *In vitro* biofilm formation by *Vibrio fisheri* isolates under atmospheric conditions. American Society for Microbiology. New Orleans, LA.

Garcia, M. November 2011. Fasciclins 2 and 3 (FAS2 and FAS3) may participate in axonal guidance during eye development in *Drosophila melanogaster*. Annual Biomedical Conference for Minority Students. St. Louis, MO.

Aguirre, S. November 2011. Characterization of aquaporins in *Culex pipiens quinquefasciatus*. Ecological Society of America. Reno, NV.

Banegas, A. November 2011. Characterization of Lsd2 in the yellow fever mosquito, *Aedes aegypti*. Ecological Society of America. Reno, NV.

Baldauf, M. November 2011. Atf2 and midgut microflora surveillance in the malaria mosquito *Anopheles gambiae*. Ecological Society of America. Reno, NV.

2012

Heneghan, D. August 2012. Evidence against the presence of *Wolbachia* in the crayfish species, *Orconectes virilis* and *Procambarus clarkii*. Ecological Society of America 97th Annual Meeting. Portland, OR.

Alvarez, C. November 2012. Genome annotation of *Pseudomonas* sp. strain Ag1 from the midgut of *Anopheles gambiae*. American Society of Tropical Medicine and Hygiene 61th Annual Meeting. Atlanta, GA.

Peterson, M. December 2012. Understanding litter decomposition in drylands: Is litter abrasion an important abiotic factor? American Geophysical Union Annual Meeting. San Francisco, CA.

Hancock, J. December 2012. Analysis of late cytoninetic defects in cells lacking an organized central spindle. American Society for Cell Biology Conference. San Francisco, CA.

2013

Drumm, H. April 2013. Transporter specificity of *Aedes aegypti* SLC7 amino acid transporter CAT3, Annual Biosymposium, New Mexico State University. Las Cruces, NM.

Garcia, E. April 2013. How does mosquito immunity affect dengue virus evolution? Annual Biosymposium, New Mexico State University. Las Cruces, NM.

Voyles, T. April 2013. The Effect of Fox P2 on Vocal Learning in Budgerigar Parrots (*Melopsittacus undulates*), poster presentation. Undergraduate Research and Creative Arts Symposium, New Mexico State University. Las Cruces, NM.

Voyles, T. April 2013. FOXP2 protein expression during vocal learning in Budgerigar parrots (*Melopsittacus undulates*), poster presentation. Annual Biosymposium, New Mexico State University. Las Cruces, NM.

Drumm, H. November 2013. Characterization of *Aedes aegypti* SLC-7 family acid transporter CAT3, Undergraduate Student Ten-Minute Paper Competition, ESA Annual Meeting, Austin, TX.

Voyles, T. November 2013. Differential FoxP1 & FoxP2 expression in budgerigar MMSt during development, poster presentation. The Society for Neuroscience Annual Meeting, San Diego, CA.

Voyles, T. November 2013. FoxP1 and FoxP2 Protein Expression during Vocal learning in Developing Budgerigar Parrots, poster presentation. Faculty for Undergraduate Neuroscience, San Diego, CA.

2014

Jones, J. March 2014. Pathogenicity of a related Coral pathogen to *Euprymna tasmanica*. Annual Biosymposium. New Mexico State University. Las Cruces, NM.

Tompkins, C. February 2014. Abams, a member of the neprilysin family, affects signaling. Keystone Symposia 2014 Omics Conferences: Omis Meets Cell Biology. Taos. New Mexico.

Drumm, H. March 2014. Characterization of *Aedes aegypti* SLC7 amino acid transporter CAT3. Annual Biosymposium. New Mexico State University. Las Cruces, NM.

Schoderbek, F. March 2014. RNA-Seq Comparison of Larval and Adult Yellow Fever Mosquito (*Aedes aegypti*) Malpighian Tubules. Annual Biosymposium. New Mexico State University. Las Cruces, NM.

Lanksbury, H. March 2014. Gene Expression Profiles Linked to Different Excitability Profiles of Myogenic Cells in the Electric Fish *Sternopygus macrurus*. Annual Biosymposium. New Mexico State University, Las Cruces, NM.

Yeh, C. March 2014. Determining the process of sarcomere disassembly by immunofluorescent detection of muscle proteins in *Sternopygus macrurus* regenerated two-week tails. Annual Biosymposium. New Mexico State University. Las Cruces, NM.

Howard, L. March 2014. The effects of urbanization on state change mediated by predator-prey interactions. Annual Biosymposium. New Mexico State University. Las Cruces, NM.

Phan, T. February 2014. Strategy to prepare 3-hydroxypyridin-2 one (3,2 HOPO) sulfonamide ligands. Annual American Chemical Society National Meeting. Dallas, TX.

Lanksbury, H. April 2014. Gene Expression Profiles Linked to Different Activation Profiles of Myogenic Cells in The Electric Fish *Sternopygus macrurus*. URCAS. Poster. New Mexico State University. Las Cruces. NM.

Wagner, C. February 2014. Flavor and Aroma Profiles of the Jalapeno Varieties (*Capsicum annuum*). Poster. Chile Pepper Conference. New Mexico State University. Las Cruces. NM.

Wagner, C. April 2014. What makes a Great Tasting Jalapeno? URCAS. Poster. New Mexico State University. Las Cruces. NM.

Yeh, C. April 2014. Determing the Process of Sarcomere Disassembly by Immunofluorescent Detection of Muscle Proteins in *Sternopygus macrurus* Two-Week Tails. URCAS. Poster. New Mexico State University. Las Cruces. NM.

Tobin, C. April 2014. Surrealism: Exploration of the Irrational Mind. URCAS. Paper. New Mexico State University. Las Cruces. NM.

Voyles, T. April 2014. Differential FoxP2 and FoxP1 Developmental Expression in a Vocal Learning Nucleus of the Budgerigar. URCAS. Paper. New Mexico State University. Las Cruces. NM.

Montoya, V. April 2014. The unending host-pathogen arms race: How mosquito RNA interference impacts dengue virus evolution. STEM Undergraduate Students' Scientific Poster Presentation. Poster. New Mexico State University. Las Cruces. NM.

Alford, J. June 2014. Capsaicin influences rumen microbial fermentation and gas production in vitro. Proceedings Paper. Western Section American Society of Animal Science, 86th Annual Meeting. Angelo State University. San Angelo, TX.

Garza, A. June 2014. Assessment of bacterial diversity of horses as influenced by age. Poster. Western Section American Society of Animal Science, 86th Annual Meeting. Angelo State University. San Angelo, TX.

Sanchez, N. June 2014. Expression of membrane progesterone receptors and select angiogenic factors are altered in ewes treated with hCG. Poster. Western Section American Society of Animal Science, 86th Annual Meeting. Angelo State University. San Angelo, TX.

Yeh, C. July 2014. Spatial and temporal processes involved in the naturally occurring sarcomere disassembly during electric organ regeneration in the teleost *Sternopygus macrurus*. Poster. Society for Developmental Biology 73rd Annual Meeting, University of Washington, Seattle, WA.

Schoderbek, F. November 2014. Characterization of several putative genes potentially involved in diuresis in the yellow fever mosquito, *Aedes aegypti*. Poster. ESA Annual Meeting, Portland, OR.

Kurupas, K. December 2014. Precipitation pulse size and frequency controls on dryland litter decomposition rates. Poster. AGU (American Geophysical Union) Fall Meeting, San Francisco, CA.

2015

Bennett, H. April 2015. Exploring cell proliferation dynamics in the phoronid lophophore. Poster. URCAS. New Mexico State University, Las Cruces, NM.

Lerma, A. April 2015. The Influence of Membrane Progesterone Receptor Gamma Signaling in Breast Cells. Poster. URCAS. New Mexico State University. Las Cruces. NM.

Redman, L. April 2015. Biochemical Characterization of the Mutant *Deinococcus radiodurans* RecA Q313R Protein. Slide. URCAS. New Mexico State University. Las Cruces. NM.

Yeh, C. April 2015. Sarcomere disassembly during tail regeneration in the adult fish *Sternopygus macrurus*. Slide. URCAS. New Mexico State University. Las Cruces. NM.

Montoya, V. April 2015. The unending host-pathogen arms race: How mosquito RNA interference impacts dengue virus evolution. ASM-Tri Branch Meeting. Durango. Colorado.

Montoya, V. April 2015. The unending host-pathogen arms race: How mosquito RNA interference impacts dengue virus evolution. Talk. Biosymposium. New Mexico State University. Las Cruces. NM.

Cole, T. April 2015. Does the Audience Affect the Structure of Warble Song in Budgerigars? Talk. Biosymposium. New Mexico State University. Las Cruces. NM.

Howard, L. April 2015. Does Population Density Affect Spatial Genetic Structure In Merriam's Kangaroo Rats? Poster. Biosymposium. New Mexico State University. Las Cruces. NM.

Vulcan, J. 2015. Expression of Mosquito Cationic Amino Acid Transporters in Yeast. Poster. Biosymposium. New Mexico State University. Las Cruces. NM.

Garza, A. June 2015. Comparison of the vaginal microbiota in non-pregnant ewes during early pregnancy. Poster. Western Section Meeting of the American Society of Animal Science. Ruidoso. NM.

Turnham, K. Summer 2015. 2015 Honors College Scholarship: Philippine Squid and Bacteria Symbiosis. Talk. Las Cruces Branch of the American Association of University Women. NMSU Circle of Excellence. New Mexico State University. Las Cruces. NM.

Redman, L. October 2015. Analysis of PRC2 protein-protein interactions and EZH2 inhibition with small molecules in B-cell lymphoma cell lines. Poster. SACNAS. Washington D.C.

Marquez, J. October 2015. Expression analysis of Thioester-containing proteins in the freshwater snail *Biomphalaria glabrata*, in response to microbial challenge. Talk. 29th Biosymposium. New Mexico State University. Las Cruces. NM.

Kirby, A. October 2015. The ph sensor *arcA/B* shows differentiation in biofilm formation between wild type and deletion mutants of *Vibrio fischeri*. Poster. 29th Biosymposium. New Mexico State University. Las Cruces. NM.

Vulcan, J. October 2015. Expression of mosquito cationic amino acid transporters in yeast. Poster. 29th Biosymposium. New Mexico State University. Las Cruces. NM.

Turnham, K. October 2015. Poster. Phylogeography of bobtail squid and their symbionts: the genetic architecture of a symbiotic system. Poster. 29th Biosymposium. New Mexico State University. Las Cruces. NM.

Kovar, L. October 2015. What are mitochondrial genomes telling us about the evolution of genus *Leucaena*? Poster. 29th Biosymposium. New Mexico State University. Las Cruces. NM.

Ramirez, A. October 2015. Comparing intraspecific aggression between urban and rural rough harvester ant colonies. Poster. 29th Biosymposium. New Mexico State University. Las Cruces. NM.

Vulcan, J. November 2015. Expression of yellow fever mosquito (*Aedes aegypti* L.) cationic acid transporters in yeast. Poster. Entomological Society of America. Minneapolis. MN.

2016

Kovar, L. January 2016. Resolving the evolutionary history of *Leucaena* using Chloroplast and Mitochondrial Transcriptome Data. Poster. Plant and Animal Genome Conference. San Diego. CA. <https://pag.confex.com/pag/xxiv/meetingapp.cgi/Paper/21191>

Marquez, J. March 2016. Expression analysis of thioester-containing proteins in the freshwater snail, *Biomphalaria glabrata*, in response to microbial challenge. Oral. Dr. Yoshino lab. Madison, WI.

Chaidez, A. March 2016. Predicted targets of differentially expressed microRNAs in skeletal muscle and the muscle-derived electric organ of the electric fish *Sternopygus macrurus*. Poster. IDeA Networks of Biomedical Research Excellence Annual Symposium. Santa Fe, NM.

Chavez, M. March 2016. Ultrastructural analysis of *B. rapa* stigmatic papillae to characterize vesicle transport during pollen acceptance. Poster. 24th annual International conference on sexual plant reproduction. Tucson, AZ. https://cals.arizona.edu/pr2016/sites/cals.arizona.edu.pr2016/files/styles/Pollen_Pistil_Interactions_Session_4_Abstracts_Final.pdf

- Lerma, A. April 2016. Progesterone Signaling in Triple Negative Breast Epithelial Cells. Poster. Biomedical Science Careers Student Conference and New England Science Symposium. Boston, MA.
- Ramirez, Aldo. April 2016. Comparing intraspecific aggression and genetic similarity between urban and rural *Pogonomyrmex* ant colonies. PPT. URCAS. NMSU. Las Cruces, NM.
- Buraczyk, C. April 2016. Dengue Heats Up: Rapid Evolution of Dengue Fever Virus in Sri Lanka. Poster. URCAS. Las Cruces, NM.
- Chaidez, A. April 2016. Predicted targets of differentially expressed microRNAs in skeletal muscle and the muscle-derived electric organ of the electric fish *Sternopygus macrurus*. Poster. URCAS. NMSU. Las Cruces, NM.
- Kieltyka, J. April 2016. Sustainable fishing: How fish can be friends and food. Poster. URCAS. NMSU. Las Cruces, NM.
- Kirby, A. April 2016. Ohana means family, no corals left behind. Poster. URCAS. NMSU. Las Cruces, NM.
- Lerma, A. April 2016. Progesterone signaling in triple negative breast epithelial cells. Poster. URCAS. NMSU. Las Cruces, NM.
- Rath, L. April 2016. Mammalian hormones associated with stress impact microbial fermentation of rumen fluid in vitro. Poster. URCAS. NMSU. Las Cruces, NM.
- Ortega, F. April 2016. Genetic barcoding using molecular analysis for identification and taxonomic clarification of *Capsicum chinense* using the internal transcribed spacer region. Poster. URCAS. NMSU. Las Cruces, NM.
- Rodriguez, A. April 2016. Factors influencing spindle orientation during early development. Poster. URCAS. NMSU. Las Cruces, NM.
- Rodriguez-Herrera, D. April 2016. Effectiveness of catnip (*Nepeta cataria* L.) essential oil in reducing onion thrips (*Thrips tabaci* L.) on onion (*Allium cepa*). Poster. URCAS. NMSU. Las Cruces, NM.
- Turnham, K. April 2016. Phylogeography of *Euprymna* and their *Vibrio* symbionts: the genetic architecture of a symbiotic system. Poster. URCAS. NMSU. Las Cruces, NM.
- Chaidez, A. August 2016. Evidence supports in silico prediction of sarcomere gene regulation by microRNAs in the electric organ of a weakly electric fish. Poster. Society for Developmental Biology. Boston, MA.
- Kovar, L. October 2016. Data Mining to Identify Genetic Loci Controlling Inflorescence Traits in Maize. Talk. Biosymposium. NMSU. Las Cruces, NM.
- Rodriguez, A. October 2016. Factors Influencing Spindle Orientation during early development. Poster. Biosymposium. NMSU. Las Cruces, NM.
- Pulliam, M. October 2016. Cuticular Conductance in Juniper and Oak. Poster. Biosymposium. NMSU. Las Cruces, NM.

Hansen, C. October 2016. Call Similarity and Strength of Social Behaviors in Budgerigars. Poster. Biosymposium. NMSU. Las Cruces, NM.

Ramirez, A. October 2016. Lower Intraspecific Aggression Associated with Lower Genetic Diversity in Invasive Urban Colonies of the Rough Harvester Ant *Pogonomyrmex rugosus*. Poster. Biosymposium. NMSU. Las Cruces, NM.

Buraczyk, C. October 2016. Understanding How Tumor Cell Metastasize: Invasive Leader Cells Express Hemidesmosome Proteins. Poster. Biosymposium. NMSU. Las Cruces, NM.

Gallegos, D. October 2016. A Deadly Intrusion: Competitive Displacement among Dengue Virus Strain in Sri Lanka. Poster. Biosymposium. NMSU. Las Cruces, NM.

2017

Ramirez, A., Smith-Vidaurre, G., Wright, T. January 2017. Lower intraspecific aggression associated with lower genetic diversity in invasive urban colonies of the rough harvester ant *Pogonomyrmex rugosus*. Poster. Society of Integrative and Comparative Biology. New Orleans, LA.

Apodaca, K. February 2017. Conferring Resistance to Phytophthora Capsici in Capsicum Annuum Using Biotechnology. Poster, Chili Conference. Las Cruces, NM.

Sumanjari, D., Chan, R., Lodato, P. March 2017. Effect of bile and pH in enterohemorrhagic *Escherichia coli* (EHEC) deficient in RNase E. Poster. NM-INBRE. Santa Fe, NM.

Chan, R. March 2017. Effect of Bile and PH in Enterohemorrhagic Escherichia Coli (EHEC) Deficient in RNase E. Poster. INBRE Symposium. Santa Fe, NM.

Amado, A. April 2017. X-Ray Spectroscopic Studies of Cobalt Complexes for Applications in Energy. Poster. URCAS. NMSU. Las Cruces, NM.

Avalos, D. April 2017. Mechanism of Zinc Transfer to Solute Binding Protein AztC from Chaperone AztD. Poster. URCAS. NMSU. Las Cruces, NM.

Bermudez, N. April 2017. Ephrins and their Receptors May Impact Placental Development. Poster. URCAS. NMSU. Las Cruces, NM.

Clark, G. April 2017. Overexpression of Sucrose Phosphate Synthase, the Key Enzyme in Sucrose Synthesis, Improves Performance of Alfalfa Plants. Poster. URCAS. NMSU. Las Cruces, NM.

Hansen, C. April 2017. Social Networks and Call Sharing in Female Budgerigar Flocks. Poster. URCAS. NMSU. Las Cruces, NM.

Hooks, G. April 2017. Targeting ERBB3 in Triple Negative Breast Cancer. Poster. URCAS. NMSU. Las Cruces, NM.

Kieltyka, J. April 2017. IGF-1R Expression Influences Tamoxifen Sensitivity of Triple Negative Breast Cancer (TNBC) Cells. Poster. URCAS. NMSU. Las Cruces, NM.

Moya, A. April 2017. Characterization of Protein Methyl Transferases in *Caulobacter crescentus*. Poster. URCAS. NMSU. Las Cruces, NM.

Ortega, F. April 2017. In Silico Identification of Pentatriopeptide Repeats in *Capsicum*. Poster. URCAS. NMSU. Las Cruces, NM.

Pulliam, M. April 2017. A New Approach to the Synthesis of Hydroxamic Acids Linked by Sulfonamide Bonds. Poster. URCAS. NMSU. Las Cruces, NM.

Ramirez, A. April 2017. Lower Intra-Specific Levels of Aggression Found between Neighboring Urban *Pogonomyrmex rugosus* Ant Colonies Than that of Rural Colonies. Paper. URCAS. NMSU. Las Cruces, NM.

Apodaca, K. April 2017. Conferring Resistance to *Phytophthora capsici* in *Capsicum Annuum* Using Biotechnology. Paper. Poster. URCAS. NMSU. Las Cruces, NM.

Amado, A. April 2017. Activating Carbon Dioxide Using Cobalt Complex Supported by Macrocyclic Tetraza Ligand. Poster. 253rd ACS National Meeting. San Francisco, CA.

Kassetas, C. June 2017. Comparison of Two Estrus Synchronization Protocols Utilized with Natural Service in Young Beef Cows on Reproductive Performance and Profitability. Poster. American Society of Animal Science-Western Section. Fargo, ND.