



**New Mexico State University-Howard Hughes Medical Institute  
Science Education Program  
Research Scholars Publications 2007-2017**

**2007**

Zamborsky, D.J., **T.R. Paskadi**, M.K., Nishiguchi, 2007. Population genetic structure of a sympatric squid-Vibrio symbiosis in the Mediterranean Sea using nested clade analysis. *The Society for Integrative and Comparative Biology*.

<http://www.sicb.org/meetings/2007/schedule/abstractdetails.php3?id=236>

**2008**

Burnett, M., C.Q. Hoang, **A. Sandoval**, and J. Curtiss. 2008. Analyzing the role of CtBP in Drosophila eye development. *Developmental Biology (Orlando)*, 2008; 319 (2). Pp. 495 ISSN: 00121606.

Delgado, A., **S. Zaman**, A. Muthaiyan, V. Nagarajan, M. O. Elasri, B. J. Wilkinson, and J. E. Gustafson. 2008. The Fusidic acid Stimulon of Staphylococcus aureus. *Journal of Antimicrobial Chemotherapy* 62(6):1207-1214. <http://jac.oxfordjournals.org/content/62/6/1207.full.pdf+html>

Lamichhane-Khadk, R., J.T. Riordan, **A. Delgado**, A. Muthaiyan, **T.D. Reynolds**, B.J. Wilkinson, and J.E. Gustafson. 2008. Genetic changes that correlate with the pine-oil disinfectant-reduced susceptibility mechanism of Staphylococcus aureus. *Journal of Applied Microbiology*. Dec;105(6):1973-81. [PMID: 19120644]

<http://www.ncbi.nlm.nih.gov/pubmed/19120644>

Ross, C. L., J. H. Benedix Jr., **C. Garcia**, K. Lambeth, R. Perry, V. Selwyn, and D.J. Howard. 2008. Scale-independent criteria and scale-dependent agents determining the structure of a ground cricket mosaic hybrid zone (*Allonemobius socius* – *Allonemobius fasciatus*). *Biological Journal of the Linnean Society* 94(2):777–796.

<http://onlinelibrary.wiley.com/doi/10.1111/j.1095-8312.2008.01018.x/abstract>

Soto, W., **J. Gutierrez**, M.R. Remmenga, and M.K. Nishiguchi. 2009. Salinity and temperature effects on physiological responses of *Vibrio fischeri* from diverse ecological niches. *Microbiology of Aquatic Systems* 57:140–150 [doi 10.1007/s00248-008-9412-9]

<http://biology-web.nmsu.edu/nish/files/journals/3Sotoetal2009a.pdf>

**Gutierrez, J.**, W. Soto, M.K., Nishiguchi. 2009. Genetic temporal change in the bacterial symbiont *Vibrio fischeri* isolated from natural host squid populations of *Euprymna tasmanica* (Mollusca: Cephalopoda). *The Society for Integrative and Comparative Biology*.

<http://www.sicb.org/meetings/2009/schedule/abstractdetails.php3?id=1310>

## 2009

Lamichhane-Khadka, R., S.A. Cantore, J.T. Riordan, A. Delgado, **A.E. Norman**, S. Dueñas, S. Zaman, S. Horan, B.J. Wilkinson, and J.E. Gustafson. 2009. *sarA* inactivation reduces vancomycin-intermediate and ciprofloxacin resistance expression by *Staphylococcus aureus*. *International Journal of Antimicrobial Agents*. Aug;34(2):136-41. Epub 2009 Mar 25. [PMID: 19324528]  
<http://www.ncbi.nlm.nih.gov/pubmed/19324528>

**Lujan, P.**, S. Sanogo, and L. Liess. 2009. Mycelium pigmentation in relation to melanin-inhibiting compounds and pathogenicity of *Sclerotinia sclerotiorum* on Valencia peanut. *Phytopathology* 99:S77.  
<http://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO.2009.99.6.S1>

O'Keefe, D. D., E. Gonzalez-Niño, M. Burnett, L. Dylla, **S. M. Lambeth**, E. Licon, C. Amesoli, B. A. Edgar, J. Curtiss. 2009. *Rap1* maintains adhesion between cells to affect *Egfr* signaling and planar cell polarity in *Drosophila*. *Developmental Biology* 333(1) Sept: 143–160.  
<http://sharedresources.fhrc.org/publications/papers/rap1-maintains-adhesion-between-cells-affect-egfr-signaling-and-planar-cell-pola>

Willyerd, K. L., **A. M. Kemp**, and A. L. Dawe. 2009. Controlled Gene Expression in the Plant Pathogen *Cryphonectria parasitica* by Use of a Copper-Responsive Element. *Applied Environmental Microbiology* 75(16):5417-5420.  
<http://aem.asm.org/content/early/2009/06/19/AEM.00899-09.full.pdf>

## 2010

**Cervantes, S.D.**, P. Tonne, R. Govindarajulu, P.A. Alexander, and C.D. Bailey. 2010. Population genetic analysis of Argemone pleiacantha *subsp.* pinnatisecta (*Sacramento prickly poppy*, *Papaveraceae*) and re-evaluation of its taxonomic status. *Journal of the Botanical Research Institute of Texas* 4: 263 – 271.  
[http://www2.brit.org/fileadmin/Publications/JBotResInstTexas\\_4\\_1/261-269\\_Cervantes\\_Argemone\\_JBRIT\\_4\\_1\\_\\_30.pdf](http://www2.brit.org/fileadmin/Publications/JBotResInstTexas_4_1/261-269_Cervantes_Argemone_JBRIT_4_1__30.pdf)

Drake, L.L., D.Y. Boudko, O. Marinotti, **V.K. Carpenter**, A.L. Dawe, et al. 2010. The Aquaporin Gene Family of the Yellow Fever Mosquito, *Aedes aegypti*. *PLoS ONE* 5(12): e15578. [doi:10.1371/journal.pone.0015578]  
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Reyes, E.D., P.L. Patidar, L.A. Uranga, **A.S. Bortoletto**, and S.L. Lusetti. 2010. *RecN* is a cohesin-like protein that stimulates intermolecular DNA interactions in vitro. *Journal of Biological Chemistry* 285(22):16521-9.  
<http://www.ncbi.nlm.nih.gov/pubmed/20360008>

Sanchez, P. H., **L. N. Tracey**, J. Browne-Silva, M. K. Petersen, and S. L. Lodge-Ivey. 2010. Propionibacterium acidipropionici P169 and glucogenic precursors to improve rumen parameters associated with low quality forage. *Proceedings, Western Section American Society of Animal Science*. 61:67-71.

**Tracey, L. N.**, J. Browne-Silva, C. H. Ponce, J. B. Osterstock, J. C. McDonald, M. Brown, and S. L. Lodge-Ivey. 2010. Effect of wet distillers' grains with soluble on rumen bacterial community profiles in individually fed cattle. *Proceedings, Western Section American Society of Animal Science*. 61:11-14.

Salamon, J.A., **R. Acuña**, and A.L. Dawe. 2010. Phosphorylation of phosphatidylcholine-specific phospholipase C (PLC- $\delta$ ) by protein kinase 2 (CK2) is required for virulence and G beta subunit stability in the fungal plant pathogen *Cryphonectria parasitica*. *Molecular Microbiology* 76(4):848-60.  
<http://www.ncbi.nlm.nih.gov/pubmed/20132439>

Emigdio D. Reyes, Praveen L. Patidar, Lee A. Uranga, **Angelina S. Bortoletto**, Shelley Lusetti, RecN Is a Cohesin-like Protein that Stimulates Intermolecular DNA Interactions *in Vitro*, *Journal of Biological Chemistry* 2010, March 2010.

## 2011

Rodriguez, D., C. Ramesh, L. H. Henson, L. Wilmeth, B.K. Bryant, S. Kadavakollu, **R. Hirsch**, J. Montoya, P.R. Howell, J.M. George, D. Alexander, D.L. Johnson, J.B. Arterburn, C. B. Shuster. 2011. Synthesis and characterization of tritylthioethanamine derivatives with potent KSP inhibitory activity. *Bioorganic and Medical Chemistry*. Sep 15,19(18):5446-53.  
<http://www.ncbi.nlm.nih.gov/pubmed/21855351>

**Johnson, E.**, Rice, S. & Geels, K. 2011. An analysis of symbolic contagion effects found in virtual environments. *International Journal of Technology, Knowledge and Society*, 7(1), 79-91.

**Baldauf, M.**, Kukutla, P., **Steritz, M.**, Xu, J. 2011. Activating Transcription Factor 2 transcriptionally regulates Defensin 4 and Dual Oxidase in *Anopheles gambiae*. Conference: *Entomological Society of America Annual Meeting 2011*.

**Tracey, L. N.**, M. R. McDaniel, J. Browne-Silva, N. A. Cole, C. A. Loest, and S. L. Ivey. 2011. Whole corn and wet distillers grains substitution in steam-flaked corn diet alters rumen fermentation and bacterial dynamics. *Proceedings, Western Section American Society of Animal Science*62:330-334.

## 2012

**Alvarez, C.**, Kukutla, C., Jiang, J., Yu, W. & Xu, J. 2012. Draft genome sequences of *Pseudomonas* sp. Ag1 isolated from the midgut of malaria mosquito *Anopheles gambiae*. *Journal of Bacteriology*, Oct,194(19), 5449.

<http://jb.asm.org/content/194/19/5449.full#ack-1>

**Carpenter, V.K., L.L. Drake, S.E. Aguirre, D.P. Price, S.D. Rodriguez, and I.A. Hansen.** 2012. *SLC7* amino acid transporters of the yellow fever mosquito *Aedes aegypti* and their role in fat body *TOR* signaling and reproduction. *Journal of Insect Physiology* Apr, 58(4):513-22.  
<http://www.ncbi.nlm.nih.gov/pubmed/22266018>

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<http://www.ncbi.nlm.nih.gov/pubmed/22486781>

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Hansen, I.A., D.Y. Boudko, S.H. Shiao, D.A. Voronov, E.A. Meleshkevitch, L.L. Drake, **S.E. Aguirre**, J.M. Fox, G.M. Attardo, and A.S. Raikhel. 2012. *AaCAT1* of the yellow fever mosquito, *Aedes aegypti*: a novel histidine-specific amino acid transporter from the *SLC7* family. *FEMS Microbiology Ecology*. Apr 9. [doi: 10.1111/j.1574-6941.2012.01386.x.]  
<http://www.ncbi.nlm.nih.gov/pubmed/21262963>

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<http://www.jove.com/video/50093/depletion-of-ribosomal-rna-for-mosquito-gut-metagenomic-rna-seq>

**Pease, S. M.**, A. Salinas-Melgoza, K. Renton, P. Escalante, and T. F. Wright. 2012. Brood Sex Ratio of the Lilac-crowned Parrot (*Amazona finschi*). *The Wilson Journal of Ornithology* 124(2):393–396.  
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<http://www.molbiolcell.org/content/early/2012/02/07/mbc.E11-12-1008.full.pdf>

Nfonsam, L.E., **C. Cano**, J. Mudge, F.D. Schilkey, J. Curtiss. 2012. Analysis of the Transcriptomes Downstream of Eyeless and the Hedgehog, Decapentaplegic and Notch Signaling Pathways in *Drosophila melanogaster*. *PLOS One* Aug 7(8): e44583.  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0044583>

Beckman, M. K., **L. N. Tracey**, N. P. Miller, **K. L. Norman**, **K. H. Marchetti**, E. J. Scholljegerdes, S. A. Soto-Navarro, C. A. Loest, and S. L. Ivey. 2012. Digestibility of algal biofuel co-product in a forage diet. *Proceedings, Western Section American Society of Animal Science*. 63:93-97.

Shelley, C. L., **M. J. Pimienta**, J. Caballero, J. Brown-Silva, S. L. Ivey, S. A. Soto-Navarro. 2012. Effect of corn oil or corn protein supplementation on performance and rumen fermentation characteristics of feedlot lambs consuming a 90% concentrate diet containing 30% DDGS. *Proceeding, Western Section American Society of Animal Science*. 63:283-287.

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Frey, K., Lewis, **C. Jeremy**, Guy, K. Rachel, Stuart, N. James. 2013. Use of Anecdotal Data in Species Distribution Models: An Example Based on the White-Nosed Coati (*Nasua narica*) in the American Southwest. *Animals* 2013, 3, 327-348; doi: 10.3390/ani3020327.  
[http://www.mdpi.com/search?q=&journal=animals&volume=&authors=jennifer+frey&section=&issue=&article\\_type=&special\\_issue=&page=&search=Search](http://www.mdpi.com/search?q=&journal=animals&volume=&authors=jennifer+frey&section=&issue=&article_type=&special_issue=&page=&search=Search)

Rodriguez, S.D., Brar, K., Darake, L.L., **Drumm, H.E.**, Price, D.P., Hammonds, J.I, Urquidi, J., Hansen, I.A. 2013. The effect of the radio-protective agents ethanol, trimethylglycine, and beer on survival of X-ray-sterilized male *Aedes aegypti*. *BMC Parasites & Vectors* 2013, 6:211.  
<http://www.parasitesandvectors.com/content/6/1/211>

Beckman, M. K., L. N. **Tracey**, **C. L. Shelley**, N. P. Miller, E. J. Scholljegerdes, **K. L. Norman**, **K. H. Marchetti**, S. A. Soto-Navarro, C. A. Loest, and S. L. Ivey. 2013. Evaluation of the novel feedstuff, lipid extracted algae, for ruminant animals in forage and concentrate diets. *Proceedings, Western Section American Society of Animal Science*. 64:55-59.

Shelley, C. L., A. L Salazar, **L. N. Tracey**, L. Schmitz, E. J. Scholljegerdes, S. L. Ivey, and C. K. Larson. 2013. Effect of cobalt supplementation on rumen fermentation and blood metabolites. *Proceedings, Western Section American Society of Animal Science* 64:107-111.

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**Alford, J.**, Slayton-Magitman, B., Gutierrez, S., Castro, J., Allataifeh, F., Loest, C. 2014. Capsaicin Influences Rumen Microbial Fermentation and Gas Production in Vitro. *Proceedings, Western Section, American Society of Animal Science*. Vol. 65, 2014.

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## 2016

Andrade, C.C., K.I. Young, W.L. Johnson, **M. Villa, C. Buraczyk, W.B. Messer, K.A. Hanley.** Rise and Fall of Mosquito Infectivity during Sequential Strain Displacements by Mosquito-Borne Dengue Virus. Accepted pending revision at *Journal of Evolutionary Biology.* 2016.

Pinch, M., Gueth, R., Samantha, M., **Chaidez, A.**, and Unguez, G. The myogenic electric organ of *Sternopygus macrurus*: a non-contractile tissue with a skeletal muscle transcriptome. *Pinch et al. (2016), PeerJ, DOI 10.7717/peerj.1828.*

**L.L. Rath**, K.L. Samuelson, A.L. Salazar, F.A. Lopez, E.J. Scholljegerdes, and C.A. Loest. Mammalian hormones associated with stress impact microbial fermentation of rumen fluid in vitro. *Proceedings, Western Section, American Society of Animal Science*, Vol. 67, 2016.

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