



## Awards and Recognitions

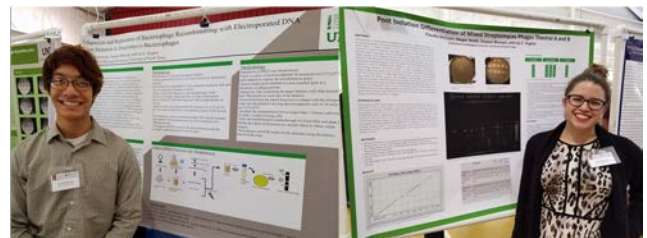
**Dr. Warren Burggren** was bestowed the University Distinguished Research Professor award. This award recognizes tenured faculty at the rank of Professor at UNT who have achieved an exceptional record of creative activities or research productivity and who demonstrate a record of continued extraordinary productivity.



Dr. Warren Burggren Dr. Vladimir Shulaev

**Dr. Vladimir Shulaev**, Professor in Biological Sciences was named a Thompson Reuter 2016 Highly Cited Researcher.

**Tianeaka McClendon-Moss** (senior Biology major) is recipient of the 2017 ASM Research Capstone Fellowship from the American Society for Microbiology. Through this award, she will receive travel support to attend the ASM Microbe Academy for Professional Development (May 31 – June 1, 2017) and to present the results of her current research project on bacteriophages in *Streptomyces* at the 2017 ASM Microbe Meeting in New Orleans, LA (June 1 – 4, 2017).

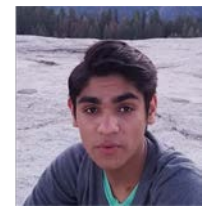


Austin Sivoravong and Claudia McCown

UNT Biology majors **Austin Sivoravong** and **Claudia McCown** won 1<sup>st</sup> and 2<sup>nd</sup> places, respectively, in the Bacteriophage poster category at the Texas Branch-American Society for Microbiology Spring Meeting in New Braunfels, TX in March 2017.

**Isabel Delwel** (senior Biology major) was selected for the Howard Hughes Medical Institute's Exceptional Research Opportunities Program (ExROP). She will be conducting research at the Fred Hutchinson Cancer Research Center in Seattle, Washington this summer. (UNT News story with additional information and photos is available at <https://news.unt.edu/news-releases/unt-student-receives-prestigious-research-opportunity>).

**Abhishek Shah**, Senior at Guyer High who is working in **Dr. Pamela Padilla's** lab, won 1<sup>st</sup> place in the Biochemistry division and 3<sup>rd</sup> place overall in the Fort Worth Regional Science and Engineering Fair. He advances to the Intel International Science and Engineering Fair (ISEF), which will be held in Los Angeles in May 2017. Title of his presented project was "*The Effect of Glucose on the Behavior and Nervous System of C. elegans*". Abhishek was also selected a Regeneron Science Talent Search (STS) Scholar. The Regeneron STS is the nation's most prestigious pre-college science competition. This recognition comes with a \$2,000 award to his school, which Abhishek has recommended be used to promote STEM at his high school.



Abhishek Shah

## Other News

The Biology Graduate Student Association hosted **Graduate Research Day** on February 17, 2017. **Dr. Eric Olson**, member of the National Academy of Sciences, and Professor and Chairman of Molecular Biology at University of Texas Southwestern Medical Center at Dallas, delivered the keynote address '*Applications of Gene Editing and Regenerative Medicine for the Correction of Muscle and Heart Disease*' on this occasion. Thirty-five talks/posters were presented by graduate students who competed for awards in two categories, oral and poster. **Jenika Sanchez** (Presentation Title: *Vascular malformations and the regulation of angiogenesis*), **Rocio F. Jara** (Presentation Title: *Nesting strategies of birds in the world's southernmost forests: the impact of a novel invasive predator*) and **Skylar King** (Presentation Title: *Genes involved in iron sulfur proteins increase germline apoptosis in C. elegans*) were the winners in the oral category. **Nikita Suri** (Presentation Title: *In vitro investigation of nerve cell network activity instability*), **Amrital Pal** (Presentation Title: *Cardiovascular activities change neural hemodynamic responses to decision-making*), and **Sarah F. Prewitt** (Presentation Title: *Analysis of the cotton (Gossypium hirsutum) CET5 gene family reveals its members impact on plant architecture*) were the winners in the poster category.





Dr. Pamela Padilla

Associate Professor **Dr. Pamela Padilla** was appointed Associate Dean of Research and Graduate Studies in the new College of Science at UNT. Dr. Padilla also was elected Treasurer for the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS). SACNAS is the largest nonprofit STEM diversity organization in the nation. Dr. Padilla currently holds a Board of Directors position in the organization.



Amith Reddy at U.S. Congressman Michael C. Burgess's office

**Amith Reddy**, graduate student in Dr. Ron Mittler's lab was selected as a UNT Graduate student council representative to advocate graduate student concerns to the Texas State representatives and senators at the Capitol Hill in Washington D.C. His advocacy was part of National Association of Graduate-Professional Students (NAGPS) conference held in Washington during March 2017.

## New Faculty and Staff Appointments

**Dr. Maite Docampo Palacios** joined Dr. Dixon's Lab in January 2017 as a post-doctoral associate. Dr. Palacios obtained her Bachelor's, Master's and Doctoral degrees in Organic Chemistry from the University of Havana, Cuba, and joined UNT from Arbor Therapeutics LLC, Oxford, Mississippi.



Dr. Maite Docampo Palacios

## Thesis and Dissertations

**Brad Cummins** successfully defended his MS thesis "*Adrenergic and Cholinergic Regulation of Cardiovascular Function in Embryonic Neotropical Cormorants (Phalacrocorax brasilianus)*". Brad's thesis advisor is Dr. Dane Crossley, Associate Professor in the Department of Biological Sciences.

## Recent Publications

Alves, G.H.Z., Hoeinghaus, D.J., Manetta, G.I., and Benedito, E. (2017) Dry season limnological conditions and basin geology exhibit complex relationships with  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  of carbon sources in four Neotropical floodplains. *PLoS ONE* 12: e0174499.

Butler, S., Neogi, P., Urban, B., Fujita, Y., Hu, Z., and Neogi, A. (2017) Zn Nanoparticles in Hydrogel Polymer Network for Bio-Imaging. *Global Journal of Nanomedicine*. 1(5): 555572.

Crego, R.D., Jiménez, J.E., and Rozzi, R. (2016) A synergic trio of invasive mammals? Facilitative interactions among beavers, muskrats, and mink at the southern end of the Americas. *Biological Invasions* 18:1923-1938. DOI 10.1007/s10530-016-1135-0

Dedrick, R.M., Jacobs-Sera, D., Guerrero Bustamante, C.A., Garlena, R.A., Mavrich, T.N., Pope, W.H., Cervantes Reyes, J.C., Russell, D.A., Adair, T., Alvey, R., Bonilla, J.A., Bricker, J.S., Brown, B.R., Byrnes, D., Cresawn, S.G., Davis, W.B., Dickson, L.A., Edgington, N.P., Findley, A.M., Golebiewska, U., Grose, J.H., Hayes, C.F., Hughes, L.E., Hutchison, K.W., Isern, S., Johnson, A.A., Kenna, M.A., Klyczek, K.K., Mageeney, C.M., Micheal, S.F., Molloy, S.D., Montgomery, M.T., Neitzel, J., Page, S.T., Pizzorno, M.C., Poxleitner, M.K., Rinehart, C.A., Robinson, C.J., Rubin, M.R., Teyim, J.N., Vazquez, E., Ware, V.C., Washington, J., and Hatfull, G.F. (2017) Prophage-mediated defense against viral attack and viral counter-defense. *Nature Microbiology* 2:16251. <http://dx.doi.org/10.1038/nmicrobiol.2016.251>.

Duplanty, A.A., Budnar, R.G., Luk, H.Y., Levitt, D.E., Hill, D.W., McFarlin, B.K., Huggett, D.B., and Vingren, J.L. (2017). Effect of acute alcohol ingestion on resistance exercise induced mTORC1 signaling in human muscle. *Journal of Strength and Conditioning Research*, 31(1): 54-61.

Dzialowski, E.M., Sirsat, T.S., Sirsat, S.K.G, and Price, E.R. (2016) Breathing while altricial; the ontogeny of ventilatory chemosensitivity in red-winged blackbird (*Agelaius phoeniceus*) nestlings. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology*. 311: R1105-R1112. doi: 10.1152/ajpregu.00273.2016.

Galli, G.L.J., Crossley, J., Else, R.M., Dzialowski, E.M., Shiels, H.A., and Crossley II, D.A. (2016) Developmental plasticity of mitochondrial function in American alligators, *Alligator mississippiensis*. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology*. 311: R1164-R1172. doi: 10.1152/ajpregu.00107.2016.

Garcia, A.M., Winemiller, K.O., Hoeinghaus, D.J., Claudino, M., Bastos, R., Correa, F., Huckembeck, S., Vieira, J.P., Loebmann, D., Abreu, P., and Ducatti, C. (2017) Hydrologic pulsing promotes connectivity and food web subsidies in a subtropical coastal ecosystem. *Marine Ecology Progress Series* 567: 17-28.

Gobeli, A., Crossley, D.A. II, Johnson, J. and Reyna, K. (2017) The effects of neonicotinoid exposure on embryonic development and organ mass in Northern Bobwhite Quail. *Comp. Biochem. Physiol. C*. 195:9-15. doi: 10.1016/j.cbpc.2017.02.001.

Guglielmo, C.G., Gerson, A.R., Price, E.R., and Hays, Q.R. (2017) The effects of dietary macronutrients on flight ability, energetic, and fuel metabolism of yellow-rumped warblers *Setophaga coronata*. *J Avian Biol.* 48:133-148.

Henning, A.L., Levitt, D.E., Vingren, J.L., and McFarlin, B.K. (2017). Using a signal amplified fluorescent *in situ* hybridization technique to assess telomeres in T-cell subset using multicolor flow cytometry. *Current Protocols in Cytometry*, 79:7.47.1-7.47.10. doi: 10.1002/cpcy.11

- Inpakutika, M.A., Sengupta, S., Nechushtai, R., Jennings, P.A., Onuchic, J.N., Azad, R.K., Padilla, P., and Mittler, R. *Phylogenetic analysis of eukaryotic NEET proteins uncovers a link between a key gene duplication event and the evolution of vertebrates.* (2017) *Sci Rep.* 7:42571. <http://www.nature.com/articles/srep42571>
- Khan, B.R., Faure, L., Chapman, K.D., and Blancaflor, E.B. (2017) A chemical genetic screen uncovers a small molecule enhancer of the N-acyl ethanolamine degrading enzyme, fatty acid amide hydrolase, in *Arabidopsis*. *Sci Rep.* 7:41121. doi: 10.1038/srep41121.
- Khursigara, A.J., Perrichon, P., M. Bautista N., Burggren, W.W., and Esbaugh, A.J. (2017). Cardiac function and survival are affected by crude oil in larval red drum *Sciaenops ocellatus*. *Science of the Total Environment*, 579:797-804. <http://www.sciencedirect.com/science/article/pii/S0048969716324573>
- Li, M., Pu, Y., Yoo, C., Gjersing, E., Decker, S., Doepcke, C., Shollengerger, T., Tschaplinski, T., Engle, N., Sykes, S., Davis, M., Baxter, H., Mazarei, M., Fu, C., Dixon, R.A., Wang, Z.-Y., Stewart, N. and Ragauskas, A. (2017). Study of traits and recalcitrance reduction of field-grown COMT down-regulated switchgrass (*Panicum virgatum* L.). *Biotechnology for Biofuels.* 10:12. DOI:10.1186/s13068-016-0695-7.
- Marmon, S.K., Sturtevant, D., Herrfurth, C., Chapman, K.D., Stymne, S., and Feussner, I. (2017) Two acyltransferases contribute differently to linolenic acid levels in seed oil. *Plant Physiology*, doi: 10.1104/pp.16.01865
- Mizsei, E., Jablonski, D., Roussos, S.A., Dimaki, M., Ioannidis, Y., Nilson, G., and Nagy, Z.T. (2017). Nuclear markers support the mitochondrial phylogeny of *Vipera ursinii-renaardi* complex (Squamata: Viperidae) and species status for the Greek meadow viper. *Zootaxa* 4227(1):7588.
- Mueller, C.A., Tazawa, H., and Burggren, W.W. (2017) Dynamics of acid-base and hematological regulation in day 15 chicken embryos (*Gallus gallus domesticus*) exposed to graded hypercapnia and hypoxia. *Respiratory Physiology & Neurobiology.* 239:55-63.
- Nesterov, V.V., Zakharov, L.N., Nesterov, V.N., Calderon, J.G., Longo, A., Zaman, K., Choudhury, F.K., Farrell, W., Shulaev, V., and Richmond, M.G. (2017) 5,7-Dihydroxy-2-(4-hydroxyphenyl)chroman-4-one (naringenin): X-ray diffraction structures of the naringenin enantiomers and DFT evaluation of the preferred ground-state structures and thermodynamics for racemization. *J. Mol. Structure* 1130: 994-100. <http://www.sciencedirect.com/science/article/pii/S0022286016311255>
- Pisciotta, J.M., Scholl, P.F., Shuman, J.L., Shulaev, V., and Sullivan, D.J. (2017) Quantitative characterization of hemozoin in *Plasmodium berghei* and *vivax*, *International Journal for Parasitology: Drugs and Drug Resistance*, 7:110-119. <http://www.sciencedirect.com/science/article/pii/S2211320716300847>
- Salazar, C., Jones, M.D., Sturtevant, D., Horn, P.J., Crossley, J., Zaman, K., Chapman, K.D., Wrona, M., Isaac, G., Smith, N., and Shulaev, V. (2017) Development and application of sub-2 µm particle CO<sub>2</sub>-based chromatography coupled to mass spectrometry for comprehensive analysis of lipids in cottonseed extracts. *Rapid Commun Mass Spectrom.* 31(7):591-605. <https://www.ncbi.nlm.nih.gov/pubmed/28072489>
- Sartori, M.R., Abe, A.S., Crossley, D.A. II, and Taylor, E.W (2017) Rates of O<sub>2</sub> consumption, heart rate and consequent O<sub>2</sub> pulse in embryos and hatchlings of the green iguana *Iguana iguana*. *Comp. Biochem. Physiol. A.* DOI: 10.1016/j.cbpa.2016.12.020
- Shulaev, V., and Chapman, K.D. (2017) Plant lipidomics at the crossroads: From technology to biology driven science. *Biochim Biophys Acta.* pii: S1388-1981. doi: 10.1016/j.bbali.2017.02.011. <http://www.sciencedirect.com/science/article/pii/S1388198117300355>
- Steeves, T., Johnson, J.A., and Hale, M. (2017) Maximizing evolutionary potential in functional proxies for extinct species: a conservation genetic perspective on de-extinction. *Functional Ecology* DOI: 10.1111/1365-2435.12843. <http://onlinelibrary.wiley.com/doi/10.1111/1365-2435.12843/abstract>
- White, T.H., Jr. and Jiménez, J.E. (2017) *Lophozonia* tree cavities used for nesting by Slender-billed parakeets (*Enicognathus leptorhynchus*) in the central valley of southern Chile: a potentially vanishing keystone resource. *Avian Research* 8:3-15. DOI 10.1186/s40657-017-0061-x
- Woodfield, H.K., Sturtevant, D., Borisjuk, L., Munz, E., Guschina, I.A., Chapman, K.D., and Harwood, J.L. (2017). Spatial and temporal mapping of key lipid species in *Brassica napus* seeds. *Plant Physiology.* doi: 10.1104/pp.16.01705
- Xu, E.G., Mager, E.M., Grosell, M., Hazard, E.S., Hardiman, and Schlenk, D. (2017) Novel transcriptome assembly and comparative toxicity pathway analysis in mahi-mahi (*Coryphaena hippurus*) embryos and larvae exposed to Deepwater Horizon oil. *Sci. Rep.*7: 44546. <http://www.nature.com/articles/srep44546>
- Yurchenko, O., Shockey, J.M., Gidda, S.K., Silver, M.I., Chapman, K.D., Mullen, R.T., and Dyer, J.M. (2017) Engineering the production of conjugated fatty acids in *Arabidopsis thaliana* leaves. *Plant Biotechnol J.* doi: 10.1111/pbi.12695.
- Zúñiga, A.H., Jiménez, J.E., and Ramírez de Arellano, P. (2017) Activity patterns in sympatric carnivores in the Nahuelbuta Mountain Range, south-central Chile. *Mammalia.* DOI 10.1515/mammalia-2015-0090.

## Books/Chapters Published

- Shah, J., Chowdhury, Z., Chaturvedi, R., Venables, B.J., Giri, M.K., Mohanty, D., Nayek, S., Norton, H., Chao, A., Koh, A., Shah, A., Yagnamurthy, A., Patel, E., and Sarowar, S. (2016) Contribution of an abietane diterpenoid in long-distance signaling associated with systemic acquired resistance and transition to flowering in plants. In: *Anais da VIII Reunião Brasileira Sobre Indução de Resistência em Plantas a Patógenos.* De Filippi, M.C.C., da Rocha, M.R., de and Araujo, L.G. Goiania: Gráfica UFG; Chapter 2, pp 89-105

## Extramural Grants and Contracts

*Cross-cutting interdisciplinary research and integration of ecology and biocultural conservation in the world's southernmost forests.* NSF International Research Experiences for Students (IRES). PI: Jaime Jiménez, Co-PIs: James Kennedy, Ricardo Rozz; \$249,363.

*Design of an integrated management plan for sustainable tourism in the Cape Horn Biosphere Reserve and its National Parks.* Innovation Initiative from the Development Corporation for Production, Chile. Funded by CORFO. PI: Francisca Massardo (University of Magallanes, Chile), Co-PIs: Jaime Jiménez, Ricardo Rozzi, Eduardo Silva (Andrés Bello University, Chile), \$169,747.

*Effect of alcohol ingestion after heavy resistance exercise on muscle androgen and glucocorticoid receptor protein content in males.* Texas Student Research Development Award – Doctoral Level to James Boyett. Texas Chapter of the American College of Sports Medicine; \$1,500.

*Molecular targets and actions of ethanolamide-conjugated oxylipins in Arabidopsis thaliana.* National Science Foundation. PI: Kent Chapman. \$682,687.

*Probiotics work on red drum juveniles.* Star-Labs and Forage Research Inc. PI: Lone Hunt von Herbing; \$41,660.

## Seminars/Talks

*Bugs and more bugs: Using probiotics and the fish microbiome to produce healthy fish for human consumption.* American Aquaculture Meeting, San Antonio, TX February 2017. Invited talk by Lone Hunt von Herbing. Co-authors: W. Busby, & M. Anderson.

*Forensic DNA Analysis: Basics, Challenges, and Issues for Consideration.* Texas Criminal Defense Lawyers' Association (TCDLA) conference, Austin, Texas, January 2017. Invited talk by Angie Ambers.

*Influence of thyroid hormones on development of endothermy in the precocial pekin duck.* Society for Integrative and Comparative Biology annual meeting, New Orleans, LA, January 2017. Talk by E.M. Dzialowski; Co-author: T.S. Sirsat.

*Insights into the structure and function of Arabidopsis fatty acid amide hydrolase (FAAH).* Gordon Research Conference - Plant Lipids: Structure, Metabolism and Function, Galveston, TX, January-February 2017. Invited talk by Dr. Mina Aziz. Co-authors: X. Wang X and K.D. Chapman.

*Introduction of mammalian lipogenic proteins promotes triacylglycerol and lipid droplet accumulation in plant cells.* Gordon Research Conference - Plant Lipids: Structure, Metabolism and Function. Galveston, TX, January-February 2017. Invited talk by Yingqi Cai. Co-authors, Michael S. Greer, Jennifer Monico, Satinder K. Gidda, Robert T. Mullen, John M. Dyer and Kent D. Chapman.

*N-Acylethanolamine metabolism and the regulation of seedling development in Arabidopsis thaliana.* University of Missouri, Department of Biochemistry Seminar Series, March 3, 2017; Invited talk by Kent Chapman

*New players in the biosynthesis of plant phenolic polymers.* Department of Microbiology and Plant Biology, University of Oklahoma, Norman, OK. March 2, 2017; Invited talk by Richard A. Dixon.

*Quantification of Alligator Gar recruitment dynamics using a river-stage specific floodplain inundation model.* Gulf Coast Prairie Landscape Conservation Cooperative Research Webinar, February 2017. D.J. Hoeinghaus and J. Jensen.

*Signaling function of an abietane diterpenoid in plant development and stress response.* International Symposium on Insight to Plant Biology in the Modern Era, Jagadish Chandra Bose Institute, Kolkata, India. February 10, 2017. Invited talk by Jyoti Shah. Co-authors: Z. Chowdhury, R. Chaturvedi, B.J. Venables, and M.K. Giri.

*What can metabolite location suggest about pathways of lipid metabolism in oilseeds?* Gordon Research Conference- Plant Lipids: Structure, Metabolism and Function. Galveston, TX, February 2, 2017. Invited Symposium Speaker—Session on “-Omic” Platforms for Lipid Analyses”, Kent Chapman.

## Conference Presentations

Aziz, M., Wang, X., and Chapman, K.D. *Insights into the structure and function of Arabidopsis fatty acid amide hydrolase (FAAH).* Gordon Research Conference - Plant Lipids: Structure, Metabolism & Function. Galveston, TX, January - February 2017.

Beard, M., Taylor, A., Roquemore, K. Bhuiyan, S., Nayek, S., Layton, S., and Hughes, L.E. *BeardedLady: Isolation, Characterization, and Analysis.* Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.

Bhuiyan, S. and Hughes, L.E. *Comparative Analysis of Four Cluster B1 Streptomyces Phages.* Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.

Brejão, G.L., Hoeinghaus, D.J., Casatti, L., Pérez-Mayorga, M.A., and Ferraz, S.F.B. *Non-linear responses of Amazonian stream fish diversity to deforestation: extent and time since impact.* XXII Encontro Brasileiro de Ictiologia; Porto Seguro, Brazil; January 2017.

- Burton, B.T., Mwanthi, S.M., Wheeler, A.M., Suri, N., Nayek, S., Bhuiyan, S., and Hughes, L.E. *Streptomyces griseus* – Analysis of BryanRecycles Bacteriophage. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Busby, W. and Hunt von Herbing, I. *Effects of multi-strain probiotics on the growth, behavior, and gut health of juvenile red drum Sciaenops ocellatus*. American Aquaculture Meeting, San Antonio, TX; February 2017.
- Cai, Y., Greer, M.S., Monico, J., BLOL3900 Class and Chapman, K.D. *Expression of mouse Acyl-CoA: diacylglycerol acyltransferase 2, DGAT2, with combinations of plant and other mammalian factors, promotes triacylglycerol production and lipid droplet accumulation in plant cells*. Gordon Research Conference - Plant Lipids: Structure, Metabolism & Function. Galveston, TX, January – February 2017.
- Calovich-Benne, C., Green, B., Gonzales, J., Martinez, A., Suri, N., Nayek, S., Bhuiyan, S., and Hughes, L.E. (2017) *Isolation and characterization of Streptomyces griseus bacteriophage Paradiddles*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Davis, G., Lucero J., McDonald J.D., Lund A.K. *The effects of inhaled multiwalled carbon nanotube exposure on signaling pathways associated with vascular disease in wildtype mice*. Society of Toxicology Annual Meeting, Baltimore, MD. March 2017.
- Delwel, I., Aguayo, I., Smith, B., Bhuiyan, S., and Hughes, L.E. *Terminators of Cluster BE and Reannotation of Peebs*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Devoll, A.C., Parker, A., Bhuiyan, S. and Hughes, L.E. *Isolation and Bioinformatic Characterization of the Streptomyces Bacteriophage Austintatious*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Hardy, T.B., Winemiller, K.O., Pease, A.A., and Allen, Y. *Quantification of Alligator gar recruitment dynamics using a river-stage specific floodplain inundation model*. Texas Chapter American Fisheries Society Annual Meeting; Corpus Christi, Texas; January 2017.
- Holwerda, E.K., Worthen, R.A., Kothary, N., Davison, B.H., Wang, Z-Y, Dixon, R.A., Mohnen, D., Stewart, C.N. Jr., Tuskan, G., Davis, M., Himmel, M.E., Wyman, C.E., Lynd, L.R., and Gilna, P. *Evaluation of multiple levers for overcoming the recalcitrance of cellulosic biomass*. The 2017 Genomic Sciences Program Annual Principal Investigator (PI) Meeting, Arlington, Virginia; February 2017
- Ivy, K., Husted, H., Oakley, T., Bhuiyan, S., and Hughes, L.E. *Isolation and Annotation of the Bacteriophage Ozzie*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Jones, O., Rapp, I., Layton, S., Bhuiyan, S., and Hughes, L.E. *Isolation, Purification, and Annotation of Diane a Streptomyces xanthochromogenes Bacteriophage*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Layton, S.R. and Hughes, L.E. *The Physical and Genomic Characteristics of Actinobacteriophage Sebastisaurus*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Levitt, D.E., Luk, H.Y., Duplanty, A.A., Hill, D.W., McFarlin, B.K., and Vingren, J.L. *Post-eccentric exercise alcohol ingestion and LPS-stimulated cytokines in resistance-trained women*. Advances in Skeletal Muscle Biology in Health and Disease, Gainesville, FL; March 2017.
- Li, A., King, A., Webb, M., Bhuiyan, S., and Hughes, L.E. *Isolation and characterization of Streptomyces BD2 Phage Daudau*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Luk, H.Y., Levitt, D.E., Boyett, J.C., Rojas S., Flader, S.M., McFarlin B.K., and Vingren J.L. *Effect of the transient resistance exercise-induced hormonal response on satellite cell activity: A Pilot Study*. Advances in Skeletal Muscle Biology in Health and Disease, Gainesville, FL; March 2017.
- Mager, E. M., Stieglitz, J., Nelson, D, Heuer, R, Cox, G., Benetti, D., Crossley, D. and Grosell, M. *Impacts of Deepwater Horizon crude oil exposure on the swimming performance of juvenile and young adult mahi-mahi (Coryphaena hippurus)*. Annual Meeting for the Texas Chapter of the American Fisheries Society, Corpus Christi, TX; January 2017.
- McCown, C., Webb, M., Bhuiyan, S., and Hughes, L.E. *Post Isolation Differentiation of Mixed Streptomyces Phages Thestral A and B*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017. \*2<sup>nd</sup> place Undergraduate Poster in Bacteriophage Category.
- Medina, P., Anghel, P., Shepard, S., Nayek, S., Bhuiyan, S., and Hughes, L.E. *Annotation of Streptomyces Phage SqueakyClean*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Meridew, S., Morgan, R., Moussa, A., Shahid, S., Bhuiyan, S., Nayek, S., Suri, N., and Hughes, L.E. *Isolation and Characterization of Streptomyces phage NootNoot*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.
- Miles, N., Lau, K., Weil, C., and Wright, A. *Morphological and cell division phenotypes of maize katanin mutants*. Maize Genetics Conference, St. Louis, MO; March 2017.
- Miles, N. and Wright, A. *A genetic screen to identify maize mutants with cell division defects*. Maize Genetics Conference. St. Louis, MO; March 2017.
- Myers, K., Sulollari, A., Luttrell, C., Simpson, A., Suri, N., Nayek, S., Bhuiyan, S., and Hughes, L.E. *Isolation, Characterization, and Annotation of Streptomyces griseus bacteriophage Blueeyedbeauty*. Texas Branch – ASM Spring Meeting, New Braunfels, TX; March 2017.

Nelson D, Stieglitz, J., Hoenig, R., Mager, E., Benetti, D., Grosell, M., and Crossley, D.A. II. *Cardiovascular function of sub-adult cobia (Rachycentron canadum) during exercise following crude oil exposure*. The annual meeting Integrative and Comparative Biology. New Orleans LA January 2017.

Oliynyk, B., Varughese, J., Tran, K., Bhuiyan, S., and Hughes, L.E. *Discovery and Annotation of Bacteriophage Oliynyk using Bacterium Streptomyces xanthochromogenes*. Texas Branch – ASM Spring Meeting, New Braunfels, TX.

Price, E.R., Sirsat, T.S., Sirsat, S.K.G., Curran, T., Venables, B.J., and Dzialowski, E.M. *A test of the membrane pacemaker hypothesis during the ontogeny of endothermy in an altricial bird*. Society for Integrative and Comparative Biology Annual Meeting, New Orleans, LA; January 2017.

Reynolds-Kirby A, Heuer, R., Mager, E., Stieglitz, J., Grosell, M., Benetti, D., and Crossley, D.A. II. *Changes in cardiac mitochondrial bioenergetics after 24h of crude oil exposure in sub-adult mahi-mahi (Coryphaena hippurus)*. The annual meeting Integrative and Comparative Biology. New Orleans, LA; January 2017.

Rippamonti J., and DA Crossley II. *The impact of hypoxic incubation on cardiomyocyte function in chicken embryos*. The annual meeting Integrative and Comparative Biology. New Orleans, LA; January 2017.

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