

ADRIAN AMELIO VASQUEZ

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CURRENT POSITION

Post-Doctoral Fellow

ReBUILD Detroit Initiative

<http://rebuildetroit.org/>

INTERESTS

Research and teaching in the area of the natural sciences. Physiological adaptations of aquatic invertebrates to inhabit diverse habitats. Use of molecular technologies to study populations of organisms in meta-communities.

EDUCATION

- Ph.D. in Physiology (2017)
Wayne State University
Department of Physiology,
Mentor: Dr. Jeffrey L. Ram
Dissertation title: "The digestive composition and physiology of water mites."
- Master of Science (2013)
Wayne State University
Molecular Developmental Biology
- Master of Science (2006)
Oakland University
Cellular Molecular Biology
- Bachelor of Science (2003)
Oakland University
Biology
- Associate in Arts and Science (2001)
Corozal Junior College, Belize, Central America
Biology and English Literature

PUBLISHED/SUBMITTED PAPERS

- N. J. Farley, A. A. Vasquez, R. Kik IV, S. R. David, A. S. Katailiha, J. L. Ram. 2017. Primer designs for identification and eDNA detection of gars (*Lepisosteidae*). *In press*.

- A. A. Vasquez*, M.S. Qazazi*, A. J. Failla, S. Rama, J. L. Ram. 2017. Molecular barcodes of water mites (Hydrachnidiae) from the Toledo Harbor region of Western Lake Erie U.S.A. International Journal of Acarology, DOI: 10.1080/01647954.2017.1349178. *Both authors contributed equally to this work.
- A. A. Vasquez*, J. L. Ram*, M. S. Qazazi, J. Sun, I. Kato. 2016. Oral microbiome; Potential link to systemic disease and oral cancer. Book chapter. *In review*. *Both authors contributed equally to this work.
- A. A. Vasquez, P. L. Hudson, K. Keeler, P. M. Armenio, M. Fujimoto and J.L. Ram. 2016. *Eurytemora carolleeae* in the Laurentian Great Lakes revealed by phylogenetic and morphological analysis. 42: 802-811.
- I. Kato*, A. A. Vasquez*, G. Moyerbrailean, S. Land, Z. Diuric, J. Sun, H-S. Lin, J.L. Ram. 2016. Nutritional correlates of human oral microbiome. Journal of the American College of Nutrition. 36: 88-98. *Both authors contributed equally to this work.
- I. Kato, A. A. Vasquez, G. Moyerbrailean, S. Land, J. Sun, H-S. Lin, J.L. Ram. 2016. Oral microbiome and history of smoking and colorectal cancer. Journal of Epidemiological Research. 2. DOI: 10.5430/jer.v2n2p92
- A.J. Failla, A.A. Vasquez, P. Hudson, M. Fujimoto and J.L. Ram. 2016. Morphological identification and COI barcodes of adult flies help determine species identities of chironomid larvae (Diptera, Chironomidae). Bulletin of Entomological Research. 106: 34-46.
- A.J. Failla, A.A. Vasquez, M. Fujimoto and J.L. Ram. 2015. Review: The ecological, economic and public health impacts of nuisance chironomids and their potential as aquatic invaders. Aquatic Invasions. 10:1-15.
- Chaudhry G.R., Fecek C., Lai M.M., Wu W., Chang M., Vasquez A., Pasierb M., Trese M. (2009) Fate of Embryonic Stem Cell Derivatives Implanted into the Vitreous of a Slow Retinal Degenerative Mouse Model. Stem Cells and Development. 18: 247-258.
- Hormoz Sheikh, Karen Zakharian, Ramiro Perez De La Torre, Christopher Facek, Adrian Vasquez, G. Rasul Chaudhry, David Svinarich, Mick J. Perez-Cruet. (2009). In vivo intervertebral disc regeneration using stem cell-derived chondroprogenitors. Journal of Neurosurgery: Spine 10:3, 265-272.
- Fecek C., Yao D., Kacorri A., Vasquez A., Iqbal S., Sheikh H., Svinarich D., Perez-Cruet M., Chaudhry G.R. (2008) Chondrogenic derivatives of embryonic stem cells seeded into 3D Polycaprolactone scaffolds generated cartilage tissue in vivo. Tissue Engineering: Part A 14: 1403-1413.
- Yao D., Smith A.G., Nagarajan P., Vasquez A., Dang L., Chaudhry G.R. (2005) Fabrication of polycaprolactone scaffolds using a sacrificial compression molding process. Biomaterials Research B. J Biomed Mater Res Part B: Appl Biomater 77B: 287-295.

- Vasquez A., Kacorri A., Yao D., Perez-Cruet M., Zou Q., Chaudhry G.R. (2005) Proliferation of embryonic stem cell-derived neural cells and their growth in biodegradable scaffolds. Meeting of the Minds XIII; Journal of Undergraduate Research.
- Kacorri A., Vasquez A., Perez-Cruet M., Chaudhry G.R. (2005) Differentiation of embryonic stem cells into oligodendrocytes. Meeting of the Minds XIII; Journal of Undergraduate Research.
- Vasquez A., George R., Lal S. (2003) Discovery and analysis of alternatively spliced genes in *Arabidopsis thaliana*. Meeting of the Minds XI; Journal of Undergraduate Research, 5: 246-25

ABSTRACTS FOR TALKS AND POSTERS IN SYMPOSIA AND CONFERENCES

- Molecular gut contents of water mites from Belle Isle's Blue Heron Lagoon, Detroit Michigan. International Association for Great Lakes Research, 2017, Detroit, Michigan.
- Changes in oral microbiome and its potential impact on human disease. A. Vasquez. March 13th 2017. University of Arizona College of Medicine-Phoenix.
- Biogeography of *Eurytemora carolleeae* in the Great Lakes revealed by phylogeny and morphology. A. A. Vasquez, P. L. Hudson, K. Keeler, P. M. Armenio, M. Fujimoto and J.L. Ram. International Association for Great Lakes Research, June 6th-12th 2016, Guelph, Ontario Canada.
- Genetic diversity of Water Mites in Western Lake Erie. M.S. Qazazi, A. A. Vasquez, A. J. Failla, S. Rama, S. Randall, J. L. Ram. International Association for Great Lakes Research, June 6th-12th 2016, Guelph, Ontario Canada.
- Automated measurement of enzymatic activity for monitoring viable organisms in ballast and environmental water. O. Alian, H. N. Alkhafaji, H. M. Fine, A. A. Vasquez, B. Sen, J. L. Ram. International Association for Great Lakes Research, June 6th-12th 2016, Guelph, Ontario Canada.
- Digging deeper into Benthic Biodiversity. J. L. Ram, A. A. Vasquez, P. L. Hudson, M. Fujimoto, M.S. Qazazi, A. J. Failla. International Association for Great Lakes Research, June 6th-12th 2016, Guelph, Ontario Canada.
- Primer designs for identifying seven species of Gars and potential hybrids at the Belle Isle aquarium. R. Kik IV, N. Farley, A. Vasquez, S. David, J. L. Ram. 146 Annual Meeting of the American Fisheries Society, August 21-25th 2016 Kansas City, Missouri U.S.A.
- Genetic diversity of Water Mites in Western Lake Erie. M.S. Qazazi, A. A. Vasquez, A. J. Failla, S. Rama, S. Randall, J. L. Ram. Michigan Physiological Society, May 12-13th 2016 Wayne State University, Detroit, Michigan U.S.A.

- Microscopic Biodiversity of the Great Lakes Zooplankton. Michigan State University Science Festival, April 24th 2016 Belle Isle Aquarium, Detroit, Michigan U.S.A.
- "It's a Zoo out there!" Biodiversity of Great Lakes Zooplankton by Adrian Vasquez. Invited talk for Science Saturday at the Belle Isle Aquarium, Detroit Michigan. January 10th 2015.
- Vasquez A; Balancio A; Nowakowski J; Branford W. (2011). Lefty activity is regulated by prodomain - mature lefty interaction. Abstract in the 70th Annual Meeting for the Society of Developmental Biology. Hyatt Regency, Chicago IL July 21-25th 2011.
- Vasquez A., Balancio A., Nowakowski J., Branford W. (2011). Lefty activity is regulated by prodomain-mature Lefty interaction. Poster in WSU Biological Sciences Annual Retreat.
- Vasquez A., Branford W. (2010). Lefty Exhibits Function in the Absence of Proteolytic Cleavage. Poster at the Wayne State University Graduate Exhibition.
- Chaudhry G.R., Vasquez A., Kacorri A., Yao D., Perez-Cruet M. (2005) Growth of embryonic stem cell-derived neural progenitors in 3-Dimensional biodegradable scaffold. Abstract in the 3rd Annual Meeting of the International Society for Stem Cell Research (ISSCR). San Francisco Marriot Hotel, San Francisco, CA USA. 206.
- Chaudhry G.R., Kacorri A., Yao D., Vasquez A., Perez-Cruet M. (2005) In vitro enrichment and expansion of oligodendrocytes derived from embryonic stem cells. Abstract in the 3rd Annual Meeting of the International Society for Stem Cell Research (ISSCR). San Francisco Marriot Hotel, San Francisco, CA USA. 207.
- George R., Vasquez A., Oakley F., Brendel V., Lal S. (2003) Discovery and expression analysis of alternatively spliced genes in *Arabidopsis thaliana*. Abstract in the 45th Annual Maize Genetics Conference. Grand Geneva Resort Lake Geneva, Wisconsin USA. 6.
- Vasquez A., Lal S. (2003) Discovery and expression analysis of alternatively spliced genes in *Arabidopsis thaliana*. 25th Annual Student Research Conference. Department of Biological Sciences, Oakland University, Rochester MI USA. 14.

SUMMARY OF AWARDS

- Sharon L. Ram Aquatic Sciences Fund Award for research on water mites of Blue Heron Lagoon, Belle Isle, Detroit. September 2016, Belle Isle Aquarium, Detroit, Michigan, U.S.A.
- Marion I Barnhart Graduate Student Award for academic distinction and research progress. September 2016.

- Sharon L. Ram Aquatic Sciences Fund Award for research on Gar species in the Belle Isle Aquarium. September 2015, Belle Isle Aquarium, Detroit, Michigan, U.S.A.
- Travel Award for research trip to Belize and Mexico from the Office of the Vice President for Research, Wayne State University. 2015.
- Enhancement Graduate Research Assistantship 2012. Wayne State University.
- Enhancement Summer Graduate Research Award 2012. Wayne State University.
- Graduate Research Enhancement Award 2010. Wayne State University.
- Research Excellence Award for Graduate Studies 2004-2006. Oakland University Center for Biomedical Research, Rochester, MI
- Recognized by International Students and Scholars of Oakland University for academic excellence April 2005. Oakland University, Rochester, MI
- International Students and Scholars Office Service Scholarship April 2003. Oakland University, Rochester, MI
- Provost Award for Undergraduate Student Research Scholar November 2002. Oakland University, Rochester, MI
- Recipient of a two week terrestrial and marine fellowship by Leading Conservation and Ecological Research Driven Belizean NGO: Programme for Belize. July 1995. Belize Central America.

REFERENCES

- Provided upon request.