

Scientific Journal Publications with Biology Students at Clarkson University (* = graduate student, undergraduate student, † = summer REU student)

2010

Harmon, L. J., Losos, J. B., Davies, T. J., Gillespie, R. G., Gittleman, J. L., Jennings, W. B., Kozak, K., McPeck, M. A., Moreno-Roark, F., Near, T. J., Purvis, A., Ricklefs, R. E., Schluter, D., Schulte II, J. A., Seehausen, O., Sidlauskas, B. L., Torres-Carvajal, O., Weir, J. T., and Mooers, A. 2010. Early bursts of body size and shape evolution are rare in comparative data. *Evolution* Published Online: Apr 29 2010 doi: 10.1111/j.1558-5646.2010.01025.x.

*Njagi, J, Ball, M., Best, M., Wallace, K.N., and Andreescu, E.S. 2010. Electrochemical quantification of serotonin in the embryonic zebrafish intestine. *Analytical Chemistry* 82: 1822-1830.

Schulte II, J. A., and Moreno-Roark, F. 2010. Live birth among iguanian lizards predates Pliocene-Pleistocene glaciations. *Proceedings of the Royal Society of London, Biological Sciences, Biology Letters* 6: 216-218.

Twiss, M.R., †Ulrich, C., Kring, S., †Harold, J., and Williams, M.R. 2010. Plankton dynamics along a 180 km reach of the Saint Lawrence River from its headwaters in Lake Ontario. *Hydrobiologia* 647: 7-20.

*Zananski, T.J., Twiss, M.R. and Mihuc, T.B. 2010. Use of fluorimetry to evaluate atrazine toxicity to phytoplankton communities. *Aquatic Ecosystem Health and Management* 13:56-65.

2009

*Adams, R.M., Twiss, M.R. and Driscoll, C.T. 2009. Patterns of mercury accumulation among seston in lakes of the Adirondack Mountains, New York. *Environmental Science and Technology* 43: 4836-4842.

*Akhtar, T., *Li, J., Olden, T., and Wallace, K.N. 2009. Use of phospholipase A2 for antigen retrieval in zebrafish whole mount immunohistochemistry. *Zebrafish* 6: 223-227.

*Ispas, C, Andreescu, D., Patel, A., Goia, D.V., Andreescu, ES, Wallace K.N. 2009. Toxicity and developmental defects of different sizes and shape nickel nanoparticles in zebrafish. *Environmental Science and Technology* 43: 6349-6356.

Iyer, S., *Gaikwad, R.M., Subba-Rao, Y., Woodworth, C.D., and Sokolov, I. 2009. AFM detects differences in the surface brush of normal and cancerous cervical cells. *Nature Nanotechnology* 4: 389-93.

Iyer, S, Woodworth, C.D., *Gaikwad, R.M., Kievsky, Y.Y., and Sokolov, I. 2009. Towards nonspecific detection of malignant cervical cells with fluorescent silica beads. *Small* 5: 2277-2284.

Langen, T.A., Ogden, K. and Schwartz, L. 2009. Predicting hotspots of herpetofauna road mortality along highway networks. *Journal of Wildlife Management* 73:104-114.

Schulte II, J. A., and Cartwright, E. M. 2009. Phylogenetic relationships among iguanian lizards using alternative partitioning methods and *TSHZ1*: A new phylogenetic marker for reptiles. *Molecular Phylogenetics and Evolution* 50: 391-396.

2008

*Gouvêa, S.P., Boyer, G.L., and Twiss, M.R. 2008. Influence of ultraviolet radiation, copper, and zinc on microcystin content in *Microcystis aeruginosa* (Cyanobacteria). *Harmful Algae* 17: 194-205.

Krishnan, M. N., *Trombley, P., and Moczydlowski, E. G. 2008. Thermal stability of the K⁺ channel tetramer: Cation interactions and the conserved threonine residue at the innermost site (S₄) of the KcsA selectivity filter. *Biochemistry* 47: 5354-5367.

Olden, T., *Akhtar, T., Beckman, S.A., and Wallace, K.N. 2008. Differentiation of the zebrafish enteric nervous system and intestinal smooth muscle. *Genesis* 46: 484-498.

Twiss, M.R. and †MacLeod, I.R. 2008. Phytoplankton community assessment in eight Lake Ontario tributaries made using fluorimetric methods. *Aquatic Ecosystem Health and Management* 11: 422-431.

2007

Hassler, C.S., †Chafin, R.D., Klinger, M.B., and Twiss, M.R. 2007. Application of the Biotic Ligand Model to explain potassium interaction with thallium uptake and toxicity to plankton. *Environmental Toxicology and Chemistry*. 26: 1139-1145.

Langen T.A., Machniak A., Crowe, E., Mangan, C., Marker, D., Liddle, N. and Roden, B. 2007. Methodologies for surveying herpetofauna mortality on rural highways. *Journal of Wildlife Management* 71:1361-1368.

2006

*Gouvêa, S.P., Melendez, C., †Carberry, M.J., Bullerjahn, G.S., Wilhelm, S.W., Langen, T.A. and Twiss, M.R. 2006. Assessment of phosphorus-microbe interactions in Lake Ontario by multiple techniques. *Journal of Great Lakes Research* 32: 455-470.

Twiss, M.R., Langen, T.A., Giroux, M.G., Johns, S.M., Liddle, N.E., Snyder, A.R., Zeleznock, D.P., and Wojcik, J. 2006. Land use influence on water quality in the Saint Regis River. *Adirondack Journal of Environmental Studies* 13: 26-32.

2005

*Berdyeva, T.K., Woodworth, C.D., and Sokolov, I. 2005. Human epithelial cells increase their rigidity with ageing in-vitro: direct measurements. *Physics in Medicine and Biology* 50: 81-92.

*Berdyeva, T.K., Woodworth, C.D., and Sokolov, I. 2005. Visualization of cytoskeletal elements by the atomic force microscope. *Ultramicroscopy* 102: 189-198.

Krishnan, M. N., Bingham, J.-P., Lee, S. H., *Trombley, P., and Moczydlowski, E. 2005. Functional role and affinity of inorganic cations in stabilizing the tetrameric structure of the KcsA K⁺ channel. *J. Gen. Physiol.* 126: 271-283.

Twiss, M.R., *Gouvêa, S.P., Bourbonniere, R.A., McKay, R.M.L., and Wilhelm, S.W. 2005. Field investigations of trace metal effects on Lake Erie phytoplankton productivity. *Journal of Great Lakes Research* 31(sup. 2): 168-179.

Woodworth, C.D., Michael, E., Marker, D., Allen, S., *Smith, L., Nees, M. 2005. Inhibition of the epidermal growth factor receptor increases expression of genes that stimulate inflammation, apoptosis and cell attachment. *Molecular Cancer Therapeutics* 4: 650-658.

2004

Woodworth, C.D., Michael, E., Smith, L., Vijayachandra, K., Glick, A., Hennings, H. and Yuspa, S.H. 2004. Strain dependent differences in malignant conversion of mouse skin tumors is an inherent property of the epidermal keratinocyte. *Carcinogenesis* 25: 1771-1778.