Andrea Novicki

Academic Technology Consultant, Center for Instructional Technology, Duke University
919 668-2320
andrea.novicki@duke.edu

Academic Degrees

Ph.D. Biological Sciences, University of California, Irvine 1988
Dissertation: "Control of the Development of Orthopteran Wing Muscles"

M.S. Zoology, University of Hawaii 1984
Thesis: "The Ultrastructure of the Putative Olfactory Organ of the Sepiolid Squid *Euprymna scolopes*"

B.S. Biology and Marine Science 1980
Southampton College of Long Island University

Professional Experience

Assistant Professor, Natural Science and Math, Johnson C. Smith University 2003-2006
Change Agent, Partnership for Minority Access to Biomolecular Sciences, UNC CH
Courses Taught: General Zoology, Integrated Physiology, Concepts of Modern Biology, Neurobiology
Committees: Natural Sciences Department Curriculum Committee, Teaching and Learning Excellence Subcommittee, MBRS RISE Faculty Advisory Committee, Search Committees, HBCU-UP Internal Advisory Committee, Human Protections Committee, Graduate and Professional School Committee

Crew, Sailing Vessel Savannah, Pacific Ocean 1999-2002

Assistant Professor, Department of Biology, UMass, Boston 1996-1999
Courses Taught: Neurobiology, Neural Basis of Behavior, Topics in Neurobiology
Committees**:** Curriculum Committee, General Education Committee, Seminar

Teaching Assistant, Neural Systems and Behavior summer course 1992-1994
Marine Biological Laboratory, Woods Hole, Massachusetts

Postdoctoral Research Associate with Dr. Janis C. Weeks 1989-1996
Institute of Neuroscience, University of Oregon
Neurophysiology, neuroanatomy and endocrinology of *Manduca sexta*
Guest Lectures in: Marine Biology, Neurobiology, Animal Behavior

Postdoctoral Trainee, Drs. B.U. Budelmann and Roger T. Hanlon 1988-1989
Marine Biomedical Institute, University of Texas Medical Branch, Galveston
Neurobiology of the cephalopod chromatophore system

Grants and Awards

JCSU FAPT technology grant with Drs. McVey and Lang-Walker 2004
“Creation of an E-resource bank for Biology Courses”

National Science Foundation IBN 9874496 1998
“Cellular Basis for the Hormonal Initiation of Behavior”

National Science Foundation, Instrumentation and Laboratory Improvement Award 1998
DUE 9851441 “Equipment for an Inquiry-Based, Quantitative Undergraduate Neurobiology Laboratory”

Travel Award, Faculty Development Committee, UMass Boston 1998

Junior Faculty Grant, Sponsored Projects, UMass Boston	1997
National Research Service Award, National Institutes of Health NS08963	1990-1992
National Research Service Award, National Institutes of Health NS08728	1989

Publications

Champion, T. and A. Novicki (2006) Chapter 24: Using Instructional Technology: A Review of Research *In*: J. J. Mintzes and W.H. Leonard, editors. Handbook of College Science Teaching. NSTA press.

Novicki, A. (2005) Proprioception: Confronting Prior Knowledge. *Advances in Physiology Education* 29: 210-211. available online: <http://advan.physiology.org/cgi/content/full/29/4/210>

Heck, W., A. Novicki and B. Rybarczyk (2005) "The Campus Coffee Shop: Caffeine Conundrums" National Center for Case Study Teaching in Science <http://ublib.buffalo.edu/libraries/projects/cases/case.html>

Novicki, A. and J.C. Weeks (2000) Developmental attenuation of *Manduca* pre-ecdysis behavior involves neural changes upstream of motoneurons and relay interneurons. Journal of Comparative Physiology A 186: 69-79.

Novicki, A. and J.C. Weeks (1996) The initiation of pre-ecdysis and ecdysis behaviors in larval *Manduca sexta*: the roles of the brain, terminal ganglion and eclosion hormone. Journal of Experimental Biology 199: 1757-1769.

Novicki, A. and J.C. Weeks (1995) A single pair of interneurons controls motor neuron activity during pre-ecdysis compression behavior in larval *Manduca sexta*. Journal of Comparative Physiology A 176:45-54.

Novicki, A. and J.C. Weeks (1993) Organization of the larval pre-ecdysis motor pattern in the tobacco hornworm, *Manduca sexta*. Journal of Comparative Physiology A 173:151-162.

Novicki, A., J.B. Messenger, B.U. Budelmann, M.L. Terrell and M. Kadekaro (1992) [^{14}C]deoxyglucose labeling of functional activity in the cephalopod central nervous system. Proceedings of the Royal Society of London, Series B 249:77-82.

Novicki, A., B.U. Budelmann and R.T. Hanlon (1990) Brain pathways of the chromatophore system in the squid, *Lolliguncula brevis*. Brain Research 519:315-323.

Novicki, A. (1989) Control of growth and ultrastructural maturation of a cricket flight muscle. Journal of Experimental Zoology 250:263-272.

Novicki, A. (1989) Rapid postembryonic development of a cricket flight muscle. Journal of Experimental Zoology 250:253-262.

Novicki, A. (1989) Neural activity pattern is not necessary for the development of adult ultrastructure in katydid (*Neoconocephalus robustus*) singing muscles. Cell and Tissue Research 255:641-644.

Novicki, A. and R.K. Josephson (1987) Innervation is necessary for the development of fast contraction kinetics of singing muscles in a katydid. Journal of Experimental Zoology 242:309-315.

Recent Conference Presentations

Miller, S. and A. Novicki (2008) Using Google Earth for Teaching and Learning. University of North Carolina Teaching and Learning with Technology Conference, Raleigh, NC, March 12-14, 2008. The proceedings are available online <http://conference.unctlt.org/proceedings/2008Proceedings.htm>

Novicki, A. (2006) Remedying PowerPoint. 2006 Lilly South Conference on College and University Teaching, Greensboro, NC.

Novicki, A. (2005) Using Moodle, an Open Source Course Management System at an HBCU Laptop University. 2005 Lilly South Conference on College and University Teaching, Greensboro, NC.

Weintraub, J., R. Grier, W. Heck, A. Novicki, R. Poage and B. Rybarczyk (2004) Using Videoteleconference (VTC) to Offer Otherwise Unavailable Courses to NC's Underserved Students. UNC Teaching and Learning with Technology Conference, Charlotte, NC March 17–19, 2004.