

## **Melody Wainscott**

Curriculum Vitae

February 2009

### **Work:**

The Texas Tech University/Howard Hughes Medical Institute (TTU/HHMI)  
Science Education Program at the  
Center for the Integration of Science Education and Research (CISER)  
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### **Education**

M.A. Technical Communications, August, 2009. Texas Tech University, Lubbock, TX

B.S. Biology with Chemistry minor (Cum Laude), 1996. Texas Tech University, Lubbock, TX

### **Certifications**

Good Laboratory Practices (GLP) Certification for Quality Assurance/Quality Control, The Institute of Environmental and Human Health (TIEHH), Texas Tech University, July 1999

Composite Sciences (Secondary Level) Teaching Certification, State of Texas, Lifetime Certification, August 1996

### **Writing, Research, and Teaching Experience**

2009-Present. *Mentor*, the TTU/HHMI Science Education Program at CISER. Working with Technology Scholar Jason Cooper to create a seamless web community for all CISER audiences using Windows SharePoint Services, SharePoint Designer, and through innovative use of freeware

2007-Present. *Graduate Technology Scholar*, the TTU/HHMI Science Education Program at CISER. Content editing of biology departmental and CISER websites; creating biology faculty websites in SharePoint application; assessing the effectiveness of technical editing and the utility of Windows Sharepoint Services to manage the CISER website, databases, and collaboration among staff; web design; webmaster for West Texas Association for Women in Science (WT-AWIS); annual report narrative writing and editing in SharePoint application; general document creation and editing

2006-2007. *Graduate Assistant*, School Science and Mathematics Association, Executive Director's Administrative Assistant, Texas Tech University. Maintaining memberships and subscription lists for monthly publication

2002-2006. Teacher *Partner* with the TTU/HHMI Science Education Program at CISER

*Science corresponding and writing:* Maintain email communication with scientist presenters for CISER coordinating presentation with audience demographics; transcription of conversations into written proposals

*Literature research:* Research of current hot topics in science from journals and media

*Librarian for Gerald Skoog Collection, CISER:* Database development

*Promotions writing:* flier writer, Tech Announce writer

*Editing:* editing letters, fliers, emails, and other technical office publications for office staff

*Writing/teaching/assessment of curriculum for workshops for CISER:* Stress Relief 101/102/103/104 for K-12 Science, Math, and Health teachers. Weekly series of retreats includes basic chemistry and effects of stress hormones, discussion of current peer-reviewed articles on stress, discussion of therapies for stress relief, and demos of therapies made practical for inside and outside the classroom

2001-March 2002. *Laboratory Manager, Senior Technician.* Department of Biological Sciences, Texas Tech University. Coordination of Research Laboratories for Aventis Corporation comparative studies of genetically altered *Gossypium hirsutum* cultivars

1999-2001. *Research Aide.* The Institute of Environmental and Human Health, and the Texas Cooperative Fish and Wildlife Research Unit, Texas Tech University, Lubbock, Texas. Study Director for Department of Defense Ammonium Perchlorate Zebrafish Reproductive Toxicity Project. Produced microscopic slides and analyzed them for aquatic toxicological studies; developed all SOP's relating to histopathological procedures and equipment operation utilized by these facilities

1998-1999. *Laboratory Technician (class IV).* Texas Tech University Health Sciences Center, Lubbock, Texas. Culturing and maintaining animal cell lines, performing nitric oxide analyses of cellular byproducts, microscopic evaluation of cell densities, development of protocols for nitric oxide analysis, ordering supplies, and maintaining all laboratory equipment

1998. *Research Assistant.* The Institute of Environmental and Human Health/Department of Biological Sciences, Texas Tech University, Lubbock, Texas. Independent literature research pertaining to sediment bound metals and their bioavailability to aquatic organisms

1996-1998. *Teacher Participant in TTU/HHMI Outreach/ Traveling Labs Program.* Trained for and used the DNA fingerprinting and Termite Gut Microscopy labs in seventh grade honors science classes

1996-1998. *Science Teacher.* Lubbock Independent School District, Lubbock, Texas. Seventh grade honors science teacher - writing honors curriculum and designing lectures, labs, projects, and assessment tools for gifted and talented young students

1994-1996. *TTU/HHMI Undergraduate Research Scholar aka Fellow*. Department of Biological Sciences, Texas Tech University, Lubbock, Texas. Microscopic examination of integral protein using immunofluorescent cytochemistry and Western Blot analysis

1992–1994. *TTU/HHMI Undergraduate Research Scholar aka Fellow*. Department of Biological Sciences, Texas Tech University, Lubbock, Texas. Founding Scholar with the TTU/HHMI Science Education Program. Population study of 3 distinct cytotypes of *Haplopappus gracilis*. Performed field collections, germination, karyotyping, analysis of data, and presentation of data at the American Association for the Advancement of Science

*References furnished on request.*

## Publications

Patino R, Goodbred S, Draugelis-Dale R, Barry C, Foott S, **Wainscott M**, Gross T, Covay K. (2003). Morphometric and histopathological parameters of gonadal development in adult common carp from contaminated and reference sites in Lake Mead, Nevada. *Journal of Aquatic Animal Health*, 15:55-68.

Patino R, **Wainscott M**, Cruz-Li E, Balakrishnan S, McMurry C, Blazer V, Anderson T. (2003) Effects of ammonium perchlorate on the reproductive performance and thyroid follicle histology of zebrafish, *Society for Environmental and Toxicological Chemistry*, 22(5) 1115-1121, 2003.

Amor Y, Haigler C, Johnson S, **Wainscott M**, Delmer D. (1995). A membrane-associated form of sucrose synthase and its potential role in synthesis of cellulose and callose in plants, *Proc. Natl. Acad. Sci. USA*, 92, 9353-9357.

## Abstracts

Barry C, Wainscott M, Foott S, Patino R. (2001). gonadal macrophage aggregates: novel biomarker of contaminant exposure and effect in male fishes? 22nd Annual Meeting, Society of Environmental Toxicology and Chemistry. Baltimore, MD. 11-15 November. Pg 222, Abstract no. PT121.

Patino R, Wainscott M, Cruz-Li E, Balakrishnan S, McMurry C, Anderson T. (2001). Effects of ammonium perchlorate on the reproductive performance of zebrafish. 22nd Annual Meeting, Society of Environmental Toxicology and Chemistry. Baltimore, MD. 11-15 November. Pg 55, Abstract no. 250.

Cruz-Li E, Wainscott M, Collie N, Cobb G, Patino R. (2001). Effects of ammonium perchlorate, 4-(tert octyl) phenol, and their mixture on zebrafish (*Danio rerio*). 22nd Annual Meeting, Society of Environmental Toxicology and Chemistry. Baltimore, MD. 11-15 November. Pg 299, Abstract no. PW196.

Amor Y, Haigler C, Wainscott M, Delmer D. (1995). The potential role of a membrane-associated form of sucrose synthase in synthesis of cellulose. *Plant Physiology*, Vol. 108, 8.

Amor Y, Delmer D, Haigler C, Johnson S, Wainscott M. (1995). Synthesis of cellulose and callose in cotton fibers via a coupled reaction involving sucrose synthase. *Plant Physiology*, vol. 108, 123.

Wainscott M, Jackson R. (1994). Population cytogenetics of a chromosomal hybrid zone between a  $2n=4$  and a  $2n=6$  race of *Haplopappus gracilis*. *American Association for the Advancement of Science*, Vol. 34, 23.