

Dawn M. Klingeman

Oak Ridge National Laboratory
Environmental Sciences Division
P.O. Box 2008 Bethel Valley Road
Oak Ridge, TN 37831-6038
Tel. (865) 576-3435
klingemandm@ornl.gov

EDUCATION

M.S.	2001	Biochemistry and Molecular Biology University of Georgia, Athens, GA Thesis Title: "Identification and characterization of neuropeptide F in the yellow fever mosquito, <i>Aedes aegypti</i> ." Advisor: Dr. M.R. Brown
B.S.	1995	Biology University of Georgia, Athens, GA

PROFESSIONAL EXPERIENCE

2004 – Present	Laboratory Technician, Oak Ridge National Laboratory, Environmental Sciences Division, Oak Ridge, TN
2001 – 2004	Post Masters Research Assistant, Oak Ridge National Laboratory, Environmental Sciences Division, Oak Ridge, TN
1999 - 2001	Graduate Research Assistant, Department of Entomology, University of Georgia, Athens, GA
Sept 2000- June 2001	Graduate Teaching Assistant, Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA
1994 - 1999	Research Technician, Department of Entomology, University of Georgia, Athens, GA

RESEARCH SKILLS

Polymerase chain reaction (PCR), Southern, Northern and Western Blotting, Genomic and cDNA library screening, DNA and RNA isolation and analysis, Deletion mutagenesis, Vector development, Microarray analysis, *Taq* polymerase purification, DNA sequencing, Gene cloning, Immunohistochemistry, *In situ* hybridization, cDNA library production, Short-term tissue culture, Use of robotic technology to develop high-throughput applications, Creation of phage display library, Radioactive and hazardous material management, Animal and insect colony maintenance, Experience with team based and independent research projects, Ability to anticipate and satisfy the needs of multiple research projects

COMPUTER SKILLS

MS word, Word Perfect, Excel, PowerPoint, Vector NTI, Artemis, GCG (Wisconsin Sequence Analysis Package), Sequencer (nucleic acid sequence) analysis software

PUBLICATIONS

Gao, W., Y. Liu, C.S. Giometti, L. Wu, X. Liu, T. Yan, S. Tollaksen, T. Khare, **D. Klingeman**, T. L. Melhorn, P.M. Jardine, D. Xu, M.W. Fields, Y. Xu, J. Zhou. (2004) A prohibitin-like protein of *Shewanella oneidensis* MR-1 is involved in iron homeostasis and oxidative damage protection (submitted to *Journal of Biological Chemistry*)

Wan, X.-F., and VerBerkmoes N.C., L. A. McCue, **D. Stanek**, H. Connelly, L.J. Hauser, L. Wu, X. Liu, T. Yan, A. Leaphart, R. L. Hettich, J. Zhou, and D. K. Thompson. 2004. Transcriptomic and Proteomic Characterization of the Fur Modulon in the Metal-Reducing Bacterium *Shewanella oneidensis*. *Journal of Bacteriology* Vol 186 No.24: 8385-8400.

Stanek, D. M., J. Pohl, J.W. Crim, and M.R. Brown. 2002. Neuropeptide F and its expression in the yellow fever mosquito *Aedes aegypti*. *Peptides* 23:1367-1378.

PRESENTATIONS

Stanek, D.M., A. B. Leaphart, X. Wan, X. Wang, T. Yan, T. Palzkill, J. Zhou. 2005. Phage Display Library Construction and Cloning of the Genome of *Shewanella oneidensis* MR-1. Genome Science and Technology Retreat. Knoxville, TN. Poster Display

Beliaev, A.S., **D. M. Stanek**, D. K. Thompson, L. Wu, J.K. Fredrickson, J. Zhou. 2004. Analysis of Global Transcriptome Profiles of *Shewanella oneidensis* MR-1 in Response to Metal-Reducing Conditions. American Society of Microbiology. New Orleans, LA. Poster Display

Stanek, D.M., A. B. Leaphart, X. Wan, X. Wang, T. Yan, T. Palzkill, J. Zhou. 2004. Phage Display Library Construction and Cloning of the Genome of *Shewanella oneidensis* MR-1. Genome Science and Technology Retreat. Knoxville, TN. Poster Display

Stanek D. M. , D. Thompson, A. Beliaev, M. W. Fields, L. Wu, X. Wan, X. Liu, T. Yan, J. M. Tiedje, K.H. Nealson, J. Zhou 2003. Microarray Expression Profiling of *Shewanella oneidensis* MR-1 during Anaerobic Growth with Different Electron Acceptors. American Society of Microbiology. Washington, D.C. Poster Display

Li, T. , **D. Stanek**, L. Wu, X. Liu, T. Yan, A. Beliaev, H. Gao, C. Giometti, M. W. Fields, D. Thompson, J. Zhou. 2003. Whole-Genome Microarray-Based Transcription Profiling of H₂O₂-Induced Stress Response of *Shewanella oneidensis*. American Society of Microbiology. Washington, D.C. Poster Display

Stanek D. M. , D. Thompson, A. Beliaev, M. W. Fields, L. Wu, X. Wan, X. Liu, T. Yan, J. M. Tiedje, K.H. Nealson, J. Zhou 2003. Microarray Expression Profiling of *Shewanella oneidensis* MR-1 during Anaerobic Growth with Different Electron Acceptors. Genome Science and Technology Retreat. Knoxville, TN. Poster Display

C. Secrest, W. Gao, **D. Stanek**, L. Larimer, L. Hauser, D. Thompson, A. Beliaev, J. Zhou, Y. Xu, D. Xu. 2002 Functional Annotation of a Hypothetical Protein in *Shewanella oneidensis* MR-1. American Society of Microbiology. Salt Lake City, UT. Poster Display

W. Gao, C. Secrest, C. Giometti, Y. Liu, L. Wu, X. Liu, T. Yan, D. Thompson, **D. Stanek**, A. Beliaev, M. Fields, D. Xu, J. Zhou. 2002. From DNA to phenotype: functional annotation of a hypothetical protein in *Shewanella oneidensis* MR-1. The 10th Annual International Meeting on Microbial Genomes. Lake Arrowhead, CA. Poster Display

Stanek, D.M., and D. Arnett. 2002. Genomics Research Facility at the Environmental Sciences Division of Oak Ridge National Laboratory. Genome Science and Technology Retreat. Knoxville, TN. Poster Display

Stanek, D. M., M.R. Brown, and J. Pohl. 2001. Identification and characterization of neuropeptide F in the mosquito *Aedes aegypti*. Southeastern Branch Entomological Society of America. Augusta, GA. Poster Display

Garczynski, S. F., **D.M. Stanek**, M.R. Brown, P. Shen, T.F. Murray, and J.W. Crim. 2001. Characterization of neuropeptide F in *Aedes aegypti* and a functional NPF receptor in *Drosophila melanogaster*. Keystone Symposium on Genetic Manipulation of Insects. Taos, NM. Poster Display

Stanek, D. M., M.R. Brown, and J. Pohl. 2000. Identification of two new brain-gut peptides from the mosquito *Aedes aegypti*. Entomological Society of America. Montreal, CAN. Poster display

Stanek, D. M., M.R. Brown, and J. Pohl. 2000. Identification of two new brain-gut peptides in the mosquito *Aedes aegypti*. Georgia Entomological Society. Athens, GA. Oral Presentation

Stanek, D. M. 1997. Ovarian ecdysteroidogenic hormone and insulin-like peptide in the neuro-endocrine system of *Aedes aegypti*. American Mosquito Control Association. Salt Lake City, UT. Oral Presentation

PROFESSIONAL MEMBERSHIPS

American Society for Microbiology

ORNL ACTIVITIES

Values committee

Safety committee

Laboratory Space Manager