

Dana J. Wohlbach

Curriculum Vitae

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EDUCATION

- Ph.D. **University of Wisconsin**; Madison, WI
Department of Genetics
“An investigation into the function of the histidine kinase ATHK1 during water stress in *Arabidopsis thaliana*”
August 2007
- B.A. **Franklin & Marshall College**; Lancaster, PA
Departments of Biology and Mathematics
“Cloning, expression, and purification of an *Arabidopsis thaliana* cholinesterase”
May 2002

PUBLICATIONS

- C.W.M Chan^{*}, D.J. Wohlbach^{*}, M.J. Rodesch, and M.R. Sussman. *Transcriptional evidence that a cyclic nucleotide-gated ion channel affects the adaptive response to high external calcium in Arabidopsis*. (FEBS Letters, *in press*).
- D.J Wohlbach and M.R. Sussman. *The osmosensing histidine kinase ATHK1 regulates seed maturation on Arabidopsis*. (The Plant Cell, *in press*).
- I.A. Lewis^{*}, D.J. Wohlbach^{*}, S.C. Schommer, J.L. Markley, and M.R. Sussman. *Metabolic changes involved in the osmoresponse of Arabidopsis thaliana*. (*in preparation*).
- D.C. Nelson, D.J. Wohlbach, M.J. Rodesch, V. Stolc, M.R. Sussman, and M.P. Samanta. *Identification of an in vitro transcription-based artifact affecting oligonucleotide microarrays*. (24 July 2007, FEBS Letters, Volume 581, Issue 18, Pages 3363-3370).

RESEARCH AND PROFESSIONAL EXPERIENCE

- 2007 – present **Computation and Informatics in Biology and Medicing Postdoctoral Trainee**, University of Wisconsin, Madison, WI
Mentor: Dr. Audrey P. Gasch; Secondary Mentor: Dr. Cécile Ané
Development and application of computational approaches for the investigation of the evolution of environmental stress response in Ascomycete fungi.
- 2005 **Independent Contractor**, W.H. Freeman and Company Publishers
Supervisor: Elaine Paluki
Development of a genetics homework server for use in conjunction with the textbook Genetics: A Conceptual Approach, by Benjamin A. Pierce.

- 2002 – 2007 **Doctoral Research**, University of Wisconsin, Madison, WI
 Advisor: Dr. Michael Sussman
 Investigation into the physiological, transcriptional, and metabolomic response to osmotic stress in *Arabidopsis thaliana*.
- 2001 – 2002 **Independent Study in Biology**, Franklin & Marshall College, Lancaster, PA
 Advisor: Dr. Carl Pike
 Independent research to isolate, purify, and analyze an *Arabidopsis thaliana* cholinesterase.
- 2001 **Merck/AAAS Summer Research Experience**, USDA, Beltsville, MD
 Advisor: Dr. Janet Slovin
 Independent research to clone and express an *Arabidopsis thaliana* cholinesterase.
- 2000 **HHMI Summer Program**, University of Pittsburgh, Pittsburgh, PA
 Advisor: Dr. Jeffrey Lawrence
 Development of assays to identify novel genes in the cobamide pathway in *Escherichia coli*.

TEACHING EXPERIENCE

- 2005-2004 **Instructor**, PEOPLE Program, Center for Biology Education, Madison, WI
 Development of science curriculum, classroom and laboratory instruction, and coordination of activities to enrich student understanding of science and research.
- 2003 **Genetics Teaching Assistant**, University of Wisconsin, Madison, WI
 Conduct weekly discussion sessions for junior and senior level undergraduates in general genetics.
- 2002 **Instructor**, Center for Talented Youth Summer Program, Lancaster, PA
 Development and instruction of curriculum and laboratory exercises in advanced high-school biology and genetics.

HONORS AND AWARDS

- 2007 NLM Computation and Informatics in Biology and Medicine Postdoctoral Training Fellowship
- 2004 Wisconsin Mortgridge Distinguished Graduate Fellowship
- 2004 Gamma Sigma Delta, The Honor Society of Agriculture
- 2002 National Science Foundation Graduate Fellowship Honorable Mention
- 2002 Magna Cum Laude
- 2001 Phi Beta Kappa