

## LISA M. STOUT

### Departmental Address:

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Department of Microbiology  
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### Research Interests

Phytoremediation, bioremediation, microbial communities, plant-microbe interactions, aquatic systems and contaminants

### Education

Graduate student, University of Massachusetts, Amherst Sept 1999-present

**Dissertation topic:** Extent And Mechanisms of Microbial Involvement in Cadmium Uptake by the Aquatic Plant *Lemna minor*

Dissertation Advisor: Dr. Klaus Nüsslein, Department of Microbiology

Bachelor of Science, Biology, Indiana University of Pennsylvania May 1998  
Minor in Chemistry

### Professional Experience

Research Assistant, University of Massachusetts, Amherst, MA  
Microbial Communities from Michigan Oil Shale 2004, 2005

Environmental Sciences Assistantship for dissertation research 2004

Blackstone River Phytoremediation Feasibility Study  
2001-2002

Associate Biologist, Susquehanna River Basin Commission, Harrisburg, PA 1998-1999

- Collaborated on Unassessed Waters project with PA DEP
- Assessed Pennsylvania streams using U.S. EPA methods
- Supervised and instructed interns
- Assisted with writing and analysis of data for several technical reports

Intern, Susquehanna River Basin Commission Summer 1997

- Assisted in stream assessment using U.S. EPA methods

### Teaching Experience

Teaching Assistant, University of Massachusetts, Amherst, MA  
Fall 1999  
Spring 2000  
Spring 2001  
Fall 2003

- Taught MICBIO 312, a general microbiology laboratory course

National Science Foundation STEM GK-12 Fellowship 2002-2003

- Directed inquiry-based science projects in middle school science classes
- 10 contact hours/week in classrooms

Supervision of undergraduate research projects

Kate Morkeski, Undergraduate Honors Thesis: Measurement of Cadmium in *Lemna minor* 2003-2004

Mithra Rothfeder: Metal resistance systems of Bacteria from *Lemna minor* Before and After Exposure to Cadmium 2002-2003

Wilder Berger: Identification of Bacterial Isolates from Roots of *Lemna minor* Spring 2001

Peer Tutor, IUP Tutorial Center, Indiana, PA 1995-1998

- Biology and Chemistry tutor at university tutoring facility

### Publications

Stout, L. M. and K. Nüsslein. 2005. Shifts in Rhizoplane Communities of Aquatic Plants After Cadmium Exposure. *Appl. Environ. Microbiol.* 71:2484-2492.

### Poster Abstracts

Nüsslein, K., V. Gomez-Alvarez, L. M. Stout, A. M. Martini, and S. T. Petsch. 2004. A Subsurface Methanogenic-Acetogenic Consortium Produces Methane From A 365 Million Year Old Black Shale. Tenth International Symposium on Microbial Ecology ISME-10, August 22-27, 2004. Cancun, Mexico. Abstract 002093.

Stout, L. M. and K. Nüsslein. 2004. Response of the Microbial Community Associated with *Lemna minor* to Heavy Metal Contamination. American Society for Microbiology 104th General Meeting, May 23-27, New Orleans, LA. Abstract N-328.

Stout, L. M., M. T. Rothfeder, and K. Nüsslein. 2003. Metal Resistance Characterization in the Rhizosphere of the Aquatic Plant *Lemna minor*. American Society for Microbiology 103rd General Meeting, May 18-22, Washington, D. C. Abstract N-276.

Stout, L. M. and K. Nüsslein. 2002. Rhizosphere Bacterial Involvement in Phytoremediation of Heavy Metals. American Society for Microbiology 102nd General Meeting, May 19-23, Salt Lake City, UT. Abstract N-61.

Poster presentations at NEMPET meetings (Northeastern Microbiologists-Physiology, Ecology, Taxonomy) 2001, 2003

### Membership in Professional Societies

Student member, American Society for Microbiology 2001-present

## References

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