

Date of Preparation: August 18, 2008

**Curriculum Vitae**  
**Dr. Heather Wiatrowski**

Lasry Center for Bioscience  
Clark University  
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**Employment:**

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- August 2008 to present  
*Assistant Professor* Clark University
- August 2006 to June 2008 Rutgers The State University of New Jersey  
*Research Assistant with Dr. Tamar Barkay, Department of Biochemistry and Microbiology*  
Investigated microbial reduction of mercury from anoxic subsurface sediments.
- August 2003 to August 2006 Rutgers The State University of New Jersey  
*Postdoctoral Associate with Dr. Tamar Barkay, Department of Biochemistry and Microbiology*  
Characterized a novel mechanism for reduction of mercury displayed by dissimilatory metal reducing bacteria.
- August 1997 to July 2003 Columbia University in the City of New York  
*Graduate Research Assistant to Dr. Marian Carlson, Department of Genetics and Development*  
Investigated interactions between carbon catabolite repression and the oxidative stress responses in the yeast *Saccharomyces cerevisiae*.
- May 1996 to August 1996 Michigan State University  
*National Science Foundation Summer Research Fellow with Veronica Maher, Department of Biochemistry*  
Investigated point mutations and cell cycle irregularities in transformed cell lines derived from murine fibroblasts.
- January 1994 to August 1997 Michigan State University  
*Undergraduate Researcher, Department of Biochemistry*  
Performed short research projects in the laboratories of Veronica Maher, Keith Lookingland, and Estelle McGroarty

**Teaching Experience:**

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- Fall 2008 Clark University  
*Developed and taught a seminar in Genomics to Juniors, Seniors, and Graduate Students*
- Summer Session 2007 Rutgers The State University of New Jersey  
*Part-time Lecturer for General Microbiology through the Department of Biochemistry and Microbiology.*

Responsible for delivering lectures in introductory microbiology

- Fall 2005 Rutgers The State University of New Jersey  
*Part-time Lecturer for Microbial Ecology and Diversity through the Department of Biochemistry and Microbiology.*  
 Responsible for delivering lectures relevant to microbial evolution, genetics, and methods in microbial ecology to graduate students and advanced undergraduates.
- June 2005 to September 2005 Rutgers The State University of New Jersey  
*Mentor for American Chemical Society Project SEED*  
 Responsible for overseeing a summer research experience for an underprivileged high school student.
- August 1996 to May 1997 Michigan State University  
*Tutor for the Michigan State University Athletics Department*  
 Provided tutoring in math and physics to members of the Michigan State University Spartan Football Team.

### Education:

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| Columbia University in the City of New York<br><i>Doctor of Philosophy from the Graduate School of Arts and Sciences</i><br>Dissertation Title: Identification of an Upstream Effector of Snf1 and investigations into the roles of the $\beta$ subunits on Snf1 function | October 2003 |
| Columbia University in the City of New York<br><i>Master of Philosophy from the Graduate School of Arts and Sciences</i>  | October 2000 |
| Columbia University in the City of New York<br><i>Master of Arts from the Graduate School of Arts and Sciences</i>  | October 1998 |
| Michigan State University<br><i>Bachelor of Science in Biochemistry with High Honors</i>  | May 1997     |

### Grants:

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Department of Energy Environmental Remediation Sciences Program "Microbial reduction of mercury in saturated subsurface sediments and its potential to mobilize mercury in its elemental form". Tamar Barkay (Lead PI). **Heather A. Wiatrowski**, Nathan Yee, Ravi Kukkadapu, Lily Y. Young, and Gerben Zylstra (Co-PIs). \$997,749.00 Anticipated dates: August 2008 – July 2011.

### Publications:

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**Wiatrowski, H. A.**, Hudson, A. O., and T. Barkay. "Confirmation of a novel mechanism for the reduction of Hg(II) to Hg(0) in *Geobacter*." (submitted)

**Wiatrowski, H. A.**, Ward, P.M., and T. Barkay (2006). "Novel reduction of mercury(II) by mercury-sensitive dissimilatory metal reducing bacteria". *Environmental Science and Technology* 40(21): 6690-6696.

**Wiatrowski, H. A.**, and T. Barkay (2005). "Monitoring of microbial metal transformations in the environment". *Current Opinions in Biotechnology* 16(3): 261-268.

Min, M. Z., Xu, H. F., Barton, L. L., Wang, J., Peng, X. J., and **H. Wiatrowski** (2005). "Biomining of uranium by *Desulfovibrio desulfuricans* DSM 642; a simulated experiment and its significance". *Acta Geologica Sinica – English Edition* 79(1): 134-138.

**Wiatrowski, H. A.**, Van Denderen, B. J., Berkey C. D., Kemp, B. E., Stapleton, D., and M. Carlson (2004). "Mutations in the Gal83 glycogen-binding domain activate the Snf1/Gal83 kinase pathway by a glycogen-independent mechanism". *Molecular and Cellular Biology* 24(1): 352-361.

**Wiatrowski, H.A.** and M. Carlson (2003). "Yap1 accumulates in the nucleus in response to carbon stress in *Saccharomyces cerevisiae*". *Eukaryotic Cell* 2(1): 19-26.

**Wiatrowski, H.A.**, and M. Carlson (2001). "Identification of a mutant locus by noncomplementation of a transposon insertion library in *Saccharomyces cerevisiae*". *Genetics* 158: 1825-1827.

### Selected Presentations:

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#### Oral Presentations:

"Microbial Pathways for the Mobilization of Mercury as Hg(0) in Anoxic Subsurface Environments" Second Annual Department of Energy Environmental Remediation Sciences Program PI meeting, April 2007. Landsdowne, VA. Powerpoints may be accessed at this URL: [http://www.lbl.gov/ERSP/generalinfo/pi\\_meetings/April07/PI\\_agenda\\_07.html](http://www.lbl.gov/ERSP/generalinfo/pi_meetings/April07/PI_agenda_07.html)

"Nuclear Localization of Yap1 in Response to Carbon Stress" Signal Transduction Workshop 2002 Yeast Genetics and Molecular Biology Meeting, August 2002. Madison WI.

#### Selected Poster Presentations:

"Reduction of Mercury(II) to Mercury(0) in Anoxic Enrichment Cultures Derived from Subsurface Sediments" **Wiatrowski, H. A.**, Wang, Y., Lu-Irving, P., Young, L. Y., and T. Barkay. American Society for Microbiology 107<sup>th</sup> General Meeting, May, 2007. Toronto, Ontario, Canada.

"Reduction of Hg(II) to Hg(0) by dissimilatory metal reducing bacteria", **Wiatrowski, H. A.** and T. Barkay. Eight International Conference on Mercury as a Global Pollutant, August 2006, Madison, WI.