William J. Brazelton
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EDUCATION

University of Washington, Seattle, WA — Sept. 2002 - present
PhD candidate, Biological Oceanography
Astrobiology Certificate trainee
Advisor: Dr. John A. Baross

University of Minnesota -Twin Cities — Sept. 1998 – May 2002
B.S. Genetics, Cell Biology, and Development
Honors, Summa Cum Laude
Minor in History of Science and Technology

PROFESSIONAL EXPERIENCE

Teaching Assistant, Univ. of Washington — Sept. 2005 - Dec. 2005
Astrobiology 502: Life on Mars?
Instructor: Dr. Richard Gammon

Substitute Instructor, Shoreline Community College — March 2006 – April 2006
Oceanography 101
Instructor: Linda Khandro

Teaching Assistant, Univ. of Washington — Sept. 2004 - Dec. 2004
HA&S 220: Energy and the Environment
Instructor: Dr. Peter Rhines

Research Assistant, Univ. of Minnesota — Oct. 1998 – Aug. 2002
Molecular biology, including BAC library screening,
protein biochemistry, and RFLP genotyping
Advisors: Drs. Carolyn Silflow and Paul A. Lefebvre

HONORS

Barry M. Goldwater Scholarship — June 2001 – Aug. 2002

Beckman Scholar — May 2001 – Aug. 2002

UM National Merit Scholarship — Sept. 1998 – May 2002

PUBLICATIONS

Brazelton, W. J. and J. A. Baross (In prep.) Simultaneous methane production and oxidation at 80ºC and pH 10 by diverse subpopulations of Lost City Hydrothermal Field microbial communities.

Brazelton, W. J., M. O. Schrenk, D. S. Kelley, and J. A. Baross. (In press) Methane and sulfur metabolizing microbial communities dominate in the Lost City Hydrothermal Field ecosystem. App. Environ. Microbiol.

Kelley, D. S., J. A. Karson, G. L. Früh-Green, D. Yoerger, T. M. Shank , D. A. Butterfield, J. M. Hayes, M. O. Schrenk, E. Olson, G. Proskurowski, M. Jakuba, A. Bradley, B. Larson, K. Ludwig, D. Glickson, K. Buckman, A. S. Bradley, **W. J. Brazelton**, K. Roe, M. J. Elend, A. Delacour, S. M. Bernasconi, M. D. Lilley, J. A. Baross, R. E. Summons, S. P. Sylva. (2005) A Serpentinite-Hosted Ecosystem: The Lost City Hydrothermal Field. Science 307:1428-1434.

Kathir P, M. LaVoie , **W. J. Brazelton**, N. A. Haas, P. A. Lefebvre, C. D. Silflow. (2003) Molecular map of the Chlamydomonas reinhardtii nuclear genome. Eukaryot Cell. 2003 Apr;2(2):362-79

Brazelton, W. J., C. D. Amundsen, C. D. Silflow, P. A. Lefebvre. (2001) The bld1 mutation identifies the Chlamydomonas osm-6 homolog as a gene required for flagellar assembly. Curr Biol. 2001 Oct 16;11(20):1591-4

CONFERENCES

Brazelton, W. J., D. S. Kelley, and J. A. Baross (2006) Anaerobic methane oxidation and methanogenesis at 80ºC by microbial communities of the Lost City Hydrothermal Field. Astrobiology Science Conference, Carnegie Institue of Washington, D. C.

Brazelton, W. J. , M. O. Screnk, D. S. Kelley, and J. A. Baross (2005) Molecular survey of microbial communities at the Lost City Hydrothermal Field reveals an ecosystem dominated by methane metabolism. Astrobiology Science Conference, University of Colorado-Boulder.

Brazelton, W. J., M. O. Schrenk, S.A. Bolton, and J.A. Baross (2004) Molecular and Organismal Characterization of Microbial Communities at the Lost City Hydrothermal Field. Astrobiology Science Conferece, NASA Ames Research Center

Brazelton, W. J., C. D. Amundsen, C. D. Silflow, and P. A. Lefebvre (2002) IFT52 is encoded by *BLD1*, a gene required for intraflagellar transport. Tenth International Conference on the Cell and Molecular Biology of *Chlamydomonas*, Vancouver, BC, Canada.