

**Petra Anne Levin**  
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### **Education**

- 1996 Harvard University, Cambridge, MA  
Ph.D., Biology  
Dissertation: *Asymmetric Division During Spore Formation in Bacillus subtilis.*  
Advisor: Dr. Richard Losick
- 1989 B.A., Biology, Cum laude, with Highest Honors in Biology  
Williams College, Williamstown, MA

### **Professional**

- 2008-present *Associate Professor*, Washington University, Department of Biology
- 2001-2008 *Assistant Professor*, Washington University, Department of Biology
- 1996-2000 *Postdoctoral Fellow*, Massachusetts Institute of Technology, Department of Biology  
Advisor: Dr. Alan Grossman
- 1989-1990 *Teacher*, The American School in Switzerland
- 1987 *Intern*, New England Biolabs, Beverly, Massachusetts

### **Teaching**

- 2010 Washington University, Discussion Leader  
Ethics and Research Science (BIO 5011)
- 2008-2010 Washington University, Lecturer  
Phage Hunters Freshman Seminar (BIO 192)
- 2006-present Washington University, Lecturer  
Molecular Microbiology and Microbial Pathogenesis (BIO 5392)
- 2005-present Washington University, Course Master  
Microbiology Laboratory (BIO 3491)
- 2002-present Washington University, Course Director  
Introduction to Microbiology (BIO 349)
- 2002 Washington University, Discussion Leader  
Special Topics in Pathogenesis (BIO 5217)
- 2002 Washington University, Lecturer (BIO 5491)  
Advanced Genetics
- 2001-present Washington University, Discussion Section Leader  
Molecular Cell Biology (BIO 5068)
- 2001-present Washington University, Advisor  
Independent Study (BIO 200 and BIO 500)

- 1995-1996 Harvard College, Tutor  
*Designed and taught a year long upper level undergraduate tutorial covering topics in bacterial pathogenesis*
- 1994-1995 Harvard Extension School, Teaching Fellow  
• *Introduction to Molecular and Cellular Biology*  
• *Introduction to Organismal and Evolutionary Biology*
- 1991-1993 Harvard College, Teaching Fellow  
• *Introductory Molecular Biology*  
• *Introductory Genetics, Molecular and Developmental Biology*  
• *Classical and Molecular Genetics*
- 1989-1990 The American School in Switzerland, Teacher  
7<sup>th</sup> & 8<sup>th</sup> grade Earth Science, 9<sup>th</sup> Grade Physical Science

### **Honors and Fellowships**

- 2012-2014 American Society for Microbiology Distinguished Lecturer
- 2005-2010 National Science Foundation Career Award
- 2002 American Cancer Society, Research Scholar Award (Declined for NIH RO1)
- 1999-2000 MIT/Merck Postdoctoral Fellow, Department of Biology, MIT
- 1996-1999 Marion Abbe Fellow, Damon Runyon Cancer Research Foundation
- 1992-1993 Paul Mazur Fellow, Harvard University, Department of Molecular & Cellular Biology
- 1988-1989 Class of 1960 Scholar, Williams College, Department of Biology

### **Research Grants**

NIH RO1 GM64671 "Temporal and spatial control of B. subtilis cytokinesis" P.A. Levin, Principal Investigator

7/1/02-6/30/08 Total (Direct + Indirect): \$1,087,790.

8/1/08-7/31/13 Total (Direct + Indirect): \$1,331,040.

NSF MCB-0448186 "CAREER: Identification and characterization of factors promoting cytokinetic ring formation in Bacillus subtilis." P.A. Levin, Principal Investigator

02/01/05-01/31/11. Total (Direct + Indirect): \$700,000

American Cancer Society (IRG) "Polymer dynamics and the regulation of an essential bacterial cell division protein." P.A. Levin, Principal Investigator

11/1/00-10/31/01. Total (Only covered direct costs): \$20,000.

Merck/MIT Collaboration Program, Postdoctoral Fellowship

1999-2000. Total (Only covered direct costs): \$45,000

Damon Runyon Cancer Research Foundation, Damon Runyon-Walter Winchell Postdoctoral Fellowship, DRG-1397

1996-1999. Total (Only covered direct costs): \$96,000

**Professional Service****Washington University Committees**

|              |  |
|--------------|--|
| 2012-2013    | Chair, Biology Department Prokaryotic Biology faculty search committee   |
| 2012-present | Member, Washington University's Medical Scientist Training Program Admissions Committee                                  |
| 2012         | Chair, Biology Department prokaryotic biologist faculty search committee   |
| 2010-2013    | Member, Faculty Senate Council   |
| 2010         | Member, Biology Department ICARES faculty search committee   |
| 2009-2010    | Member, Writing 1 Review Committee, College of Arts and Sciences, Washington University                                  |
| 2008         | Member, Advisory Committee on the Appointment of the Next Dean of the Faculty of Arts & Sciences                         |
| 2007, 2012   | Member, Stalker Award Committee  |
| 2006-2007    | Member, Plant Biology faculty search committee, Department of Biology, Washington University                             |
| 2005-present | Member, Microbiology Graduate Program steering committee, Washington University  |
| 2005, 2007   | Member, HHMI SURF review Committee   |
| 2005         | Member, Biology Department Academic Planning Committee   |
| 2002-2009    | Member, Ph.D. Admissions committee, Division of Biology and Biomedical Sciences, Washington University                   |
| 2002-2004    | Member, Moog Scholarship review committee, Washington University College of Arts and Sciences                            |
| 2001-2002    | Member, Molecular Geobiology faculty search committee, Department of Earth and Planetary Sciences, Washington University |

**Scientific Review and Service**

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|--------------|--|
| 2013         | Member, Special Emphasis Panel, NIAID Centers of Excellence in Translational Research (CETR)         |
| 2012-2014    | Member, Editorial Board, Journal of Bacteriology   |
| 2009         | External Examiner, Ph.D. Thesis of Christopher Rodrigues, University of Technology, Sydney Australia |
| 2010-2012    | Organizer, Molecular Genetics of Bacteria and Phages Annual Meeting                                  |
| 2009         | External Examiner, Ph.D. Thesis of Phoebe Peters, University of Technology, Sydney Australia         |
| 2008-        | Member, Faculty of 1000  |
| 2008-        | Member, Editorial Advisory Board, Molecular Microbiology   |
| 2007         | External Examiner, Ph.D. Thesis of Ying Zhang, Oregon Health and Science University                  |
| 2005-2006    | Member, ACS Molecular Cell Biology of Cancer panel   |
| 2003-2005    | Member, NSF Microbial Genetics review panel  |
| 2002-present | Ad Hoc Reviewer, NSF multiple panels   |

**Journal Reviewer**

Average of 15 reviews per year for various journals including: Molecular Microbiology, Journal of Bacteriology, Applied and Environmental Microbiology, EMBO, PNAS, Genes and Development, FEMS Letters, Cell, Molecular Cell, Developmental Cell, Microbiology, PLOS Biology, PLOS Genetics, PLOS One, Science, Journal of Biological Chemistry

**Professional Organizations**

American Society for Microbiology

**Invited Presentations Since 2004**

- July, 2013 Gordon Research Conference on Microbial Adhesion & Signal Transduction, Newport, RI
- November, 2012 Department of Microbiology, University of Illinois, Urbana, IL
- September, 2012 EMBO Workshop: Reconstructing the essential bacterial cell cycle machinery, Real Sitio de San Ildefonso (Segovia), Spain
- July, 2012 Gordon Research Conference on Bacterial Cell Surfaces, West Dover, VT
- July, 2010 Gordon Research Conference on Microbial Stress Response, South Hadley, MA
- June 2010 Invited speaker, NSF workshop on Innovations in Biological Research and Education in the Molecular and Cellular Biosciences, Arlington, VA
- August, 2009 Chair, Cell Biology and Development Session, Molecular Genetics of Bacteria and Phages Meeting, Madison, WI
- April, 2009 Department of Biology, Indiana University, Bloomington, Indiana
- March, 2009 Spatial 2009 Meeting, Jerusalem, Israel
- February, 2009 Bauer Forum, FAS Center for Systems Biology, Harvard University, Cambridge, MA
- November, 2008 Department of Molecular and Cell Biology, University of California Berkeley, Berkeley, CA
- March, 2008 UCLA Genetics Seminar Series, University of California Los Angeles, Los Angeles, CA
- March, 2008 Joint CBMB/LGRD Seminar Series, National Institutes of Health, Bethesda, MD
- November, 2007 Department of Microbiology and Molecular Genetics, Michigan State University, Lansing, MI
- November 2007 Department of Microbiology and Molecular Genetics, University of Texas Medical School, Houston, TX
- October 2007 Department of Molecular Microbiology and Pathogenesis, Washington University School of Medicine, St. Louis, MO
- September, 2007 Department of Environmental and Biomolecular Systems, Oregon Health and Science University, Portland, OR
- August, 2007 Molecular Genetics of Bacteria and Phages Meeting, Madison, WI
- May, 2007 American Society for Microbiology General Meeting, Toronto, ON Convener, Session Title: The prokaryotic cytoskeleton: structure, function, and regulation
- May, 2007 Department of Biology, McGill University, Montreal, QC
- April, 2007 Section of Molecular Genetics and Microbiology, The University of Texas at Austin, Austin, TX
- March, 2007 Department of Microbiology, University of Washington, Seattle, WA
- January, 2007 Department of Cell Biology, Washington University School of Medicine, St. Louis, MO
- January, 2007 Department of Microbiology and Immunology, Emory University, Atlanta, GA
- November, 2006 Department of Biology, Johns Hopkins University, Baltimore, MD
- August, 2006 EMBO Workshop on Cell Cycle and Cytoskeletal Elements in Bacteria, Copenhagen, Denmark
- June, 2006 Gordon Research Conference on Bacterial Cell surfaces, New London, NH
- November, 2005 Department of Microbiology and Immunology, Loyola University Medical Center, Maywood, IL
- October, 2005 Department of Microbiology, University of Massachusetts, Amherst, MA
- September, 2005 Biology Department, Eastern Illinois University, Charleston, IL
- May, 2004 Department of Biology, University of Missouri, St. Louis, MO

**Publications**

1. Luo, Q, A. S. Land, and **P. A. Levin**, Structural analysis of the positional regulator of cell division EzrA, in preparation for submission July, 2013.
2. Arjes, H. A., M. A. Kriel, J. D. Wang, N. A. Sorto, J. T. Shaw, and **P. A. Levin**, A previously unidentified division-dependent cell cycle checkpoint in bacteria, in preparation for submission July, 2013.
3. Hill, N. S., P. J. Buske, Y. Shi, and **P. A. Levin**. (2013) A moonlighting enzyme links *Escherichia coli* cell size with central metabolism, PLoS Genetics, In press.
4. Buske, P. J. and **P. A. Levin**. (2013) A flexible C-terminal linker is required for proper FtsZ assembly *in vitro* and cytokinetic ring formation *in vivo*, Mol. Microbiol. PMID: 23692518.
5. Chien, A-C, S. K. Zareh, Y. M. Wang and **P. A. Levin**. (2012) Changes in the oligomerization potential of the division inhibitor UgtP coordinate *Bacillus subtilis* cell size with nutrient availability, **Mol. Microbiol.**, 86: 594-610.
6. Chien, A-C., N. S. Hill and **P. A. Levin**. (2012) Cell size control in bacteria, **Current Biology**, 22(9):R340-9
7. Hill, N. S., R. Kadoya, D. K. Chattoraj, and **P. A. Levin**. (2012), Cell size and the initiation of DNA replication in bacteria, **PLoS Genet** 8(3): e1002549. doi:10.1371/journal.pgen.1002549  
**Subject of Special Research Highlight in Nature Reviews Microbiology, Cellular microbiology: Replication comes in all sizes**, Nat. Rev. Microbiol. 10, 312-313 (May 2012).
8. Buske, P. J. and **P. A. Levin**. (2012) The extreme C-terminus of the bacterial cytoskeletal protein FtsZ plays a fundamental role in assembly independent of modulatory proteins, **J. Biol. Chem.**, 287:10945-10957.
9. Wang, J. D. and **P. A. Levin** (2009). Metabolism, cell growth, and the bacterial cell cycle, **Nat. Rev. Microbiol.**, 7: 822-827.
10. Haeusser, D. P., A. H. Lee, R. B., Weart and **P. A. Levin**. (2009) ClpX inhibits FtsZ assembly in a manner that does not require its ATP hydrolysis-dependent chaperone activity, **J. Bacteriol.**, 191:1986-1991.
11. Haeusser, D. P. and **P. A. Levin**. (2008) The Great Divide: Coordinating cell cycle events during bacterial growth and division, **Current Opin. Microbiol.**, 11:94-99.
12. Haeusser, D. P., A. C. Garza\*, A. Buscher, and **P. A. Levin**. (2007) The division inhibitor EzrA contains a seven-residue patch required for maintaining the dynamic nature of the medial FtsZ ring, **J. Bacteriol.**, 189: 9001-9010. **(Cover image)**
13. Norris V., T. den Blaauwen, R. H. Doi, J. Errington, R. Harshey, L. Janniere, A. Jimenez-Sanchez, D. J. Jin, **P. A. Levin**, E. Mileykovskaya, A. Minsky, G. Misevic, C. Ripoll, M. Saier Jr, K. Skarstad, and M. Thellier, (2007) Towards a hyperstructure taxonomy, **Annu Rev. Microbiol.**, 61:309-329.
14. Weart, R. B., A. H. Lee, A-C Chien, D. P. Haeusser, N. S. Hill and **P. A. Levin**. (2007) A metabolic sensor governing cell size in bacteria, **Cell**, 130:335-347. **(Cover image)**
15. Norris, V., T. den Blaauwen, A. Cabin-Flaman, R. H. Doi, R. Harshey, L. Janniere, A. Jimenez-Sanchez, D. J. Jin, **P. A. Levin**, P. A., E. Mileykovskaya, A. Minsky, M. Saier Jr, and K. Skarstad, (2007) A functional taxonomy of bacterial hyperstructures, **Microbiol. Mol. Biol. Rev.**, 71(1):230-253.
16. Weart, R. B., S. Nakano, B. E. Lane, P. Zuber, and **P. A. Levin**. (2005) The ClpX chaperone modulates assembly of the tubulin-like protein FtsZ, **Mol. Microbiol.**, 57:238-249.
17. Haeusser, D.P., R. L. Schwartz, A. M. Smith, M. E. Oates\*, and **P. A. Levin**. (2004) EzrA prevents aberrant cell division by modulating assembly of the cytoskeletal protein FtsZ, **Mol. Microbiol.** 52:801-814.

18. Romberg, L. and **P. A. Levin**. (2003) Dynamic FtsZ rings in cell division: poised at the edge of stability. **Annu. Rev. Micro.** 57: 125-154.
19. Weart, R. B. and **P.A. Levin**. (2003) Growth rate dependent regulation of FtsZ ring formation in *Bacillus subtilis*, **J. Bacteriol.** 185: 2826-2834.
20. **Levin, P. A.** (2002) Light microscopy techniques for bacterial cell biology. In Phillipe Sansonetti and Arturo Zychlinsky (Eds.) **Methods in Microbiology** 31: *Molecular Cellular Microbiology*, 115-132. Academic Press Ltd., London.
21. **Levin, P. A.**, R. L. Schwartz, and A. D. Grossman. (2001) Polymer stability plays an important role in the positional regulation of FtsZ, **J. Bacteriol.** 183: 5449-5452.<sup>§</sup>
22. **Levin, P. A.** and R. Losick. (2000) Asymmetric cell division in *Bacillus subtilis*. In Y. V. Brun and L. Shimkets (Eds.) *Prokaryotic Development*, 167-189. American Society for Microbiology Press, Washington, D. C.
23. **Levin, P. A.**, I. G. Kurtser and A. D. Grossman. (1999) Identification and characterization of *ezrA*, a negative regulator of FtsZ ring formation in *Bacillus subtilis*, **Proc. Natl. Acad. Sci. USA**, 96: 9642-9647.
24. **Levin, P. A.**, J. J. Shim, and A. D. Grossman. (1998) Effect of *minCD* on FtsZ ring formation and polar septation in *Bacillus subtilis*. **J. Bacteriol.** 180: 6048-6051.
25. **Levin, P. A.** and A. D. Grossman. (1998) Cell cycle and sporulation in *Bacillus subtilis*. **Current Opinion in Microbiology** 1:630-635.
26. **Levin, P. A.** and A. D. Grossman. (1998) Cell Cycle: The bacterial approach to coordination. **Current Biology** 8: R28-R31.
27. **Levin, P. A.**, R. Losick, P. Stragier, and F. Arigoni. (1997) Localization of the sporulation protein SpoIIE in *Bacillus subtilis* is dependent upon the cell division protein FtsZ. **Mol. Microbiol.** 25: 839-846.
28. Lin, D. C.-H., **P. A. Levin**, and A. D. Grossman. (1997) Bipolar localization of a chromosome partition protein in *Bacillus subtilis*. **Proc. Natl. Acad. Sci. USA** 94: 4721-4726.
29. Jin, S., **P. A. Levin**, K. Matsuno, A. D. Grossman, and A. L. Sonenshein. (1997) Deletion of the *Bacillus subtilis* isocitrate dehydrogenase gene causes a block at stage I of sporulation. **J. Bacteriol.** 179: 4725-4732.
30. **Levin, P. A.** and R. Losick. (1996) Transcription factor Spo0A switches the localization of the cell division protein FtsZ from a medial to a bipolar pattern in *Bacillus subtilis*. **Genes Dev.** 10: 478-488.
31. **Levin, P. A.** and R. Losick. (1995) Generating specialized cell types by asymmetric division in *Bacillus subtilis*. **Seminars in Developmental Biology** 6: 335-345.
32. **Levin, P. A.** and R. Losick. (1994) The cell division gene *divIC* from *Bacillus subtilis* is required for vegetative and sporulation septum formation. **J. Bacteriol.** 176: 1451-1459.
33. **Levin, P. A.**, N. Fan, E. Ricca, A. Driks, R. Losick and S. Cutting. (1993) An unusually small gene required for sporulation by *Bacillus subtilis*. **Mol. Microbiol.** 9: 761-771.
34. **Levin, P. A.**, P. S. Margolis, P. Setlow, R. Losick, and D. Sun. (1992) Identification of *Bacillus subtilis* genes for septum placement and shape determination. **J. Bacteriol.** 174: 6717-6728.

\* Washington University undergraduate

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**Meeting Abstracts from the Levin Lab since 2002**

1. Arjes, H.A. and P.A. Levin (2012) Metabolically Active but Non-Culturable Cells Following Prolonged Depletion of FtsZ, Gordon Research Conference on Bacterial Cell Surfaces.
2. Buske, P.J. and P.A. Levin, (2012) Previously Uncharacterized Regions of FtsZ Are Important for Cell Division in Both *B. subtilis* and *E. coli*, 4<sup>th</sup> ASM Conference on Prokaryotic Cell Biology and Development.
3. Arjes, H.A. and P.A. Levin (2011) Cell Survival in the Absence of Division, Poster, Molecular Genetics of Bacteria and Phages
4. Buske, P.J. and P.A. Levin (2011) More Than a Landing Pad: FtsZ's C-terminal Tail Plays a Critical Role in Modulating Assembly, Poster, Molecular Genetics of Bacteria and Phages
5. Chien, A-C and P.A. Levin (2011) A UDP-glucose Sensitive Rheostat for Cell Size, Poster, Molecular Genetics of Bacteria and Phages
6. Hill, N. S. and P. A. Levin (2011) A Sugar Transferase Regulating Cell Size Homeostasis in *Escherichia coli*, Oral Presentation, Molecular Genetics of Bacteria and Phages
7. Chien, A-C and P.A. Levin (2010) A Carbon Sensitive Switch for Cell Size, Poster, Bacterial Cell Biology Conference
8. Hill, N. S. and P. A. Levin (2010) A Sugar Transferase Regulating Cell Size Homeostasis in *Escherichia coli*, Poster, Molecular Genetics of Bacteria and Phages.
9. Buske, P. J. and P. A. Levin (2009) Regulation of FtsZ Assembly Through Interactions with its C-terminal Tail, Poster, Molecular Genetics of Bacteria and Phages.
10. Chien, A-C and P. A. Levin (2009) Substrate Dependent Subcellular Localization: Dissecting the Signal Transduction Pathway Responsible for Coordinating Cell Size with Nutrient Availability, Poster, Molecular Genetics of Bacteria and Phages.
11. Hill, N. S., R. Kadoya, D. Chattoraj, and P. A. Levin (2009) "Initiation of DNA replication and Cell Mass: Sizing up Differences Between *E. coli* and *B. subtilis*", Oral Presentation, Molecular Genetics of Bacteria and Phages.
12. Luo, Q. and P. A. Levin (2009) Enhancement or Necessity: Dissecting the role of the Transmembrane Anchor in Cell Division Protein Function, Poster, Molecular Genetics of Bacteria and Phages.
13. Hill, N. S., R. Kadoya, D. Chattoraj, and P. A. Levin (2008) The Initiation of DNA Replication and Cell Mass: Sizing up Differences Between *E. coli* and *B. subtilis*, Poster, EMBO workshop on cell cycle and cytoskeletal elements in bacteria.
14. Chien A-C and P. A. Levin (2008) Characterization of UgtP: A Nutrient-Dependent Regulator of Cell Size in *Bacillus subtilis*, Poster, Bacterial Cell Surfaces Gordon Conference.
15. Chien A-C and P. A. Levin (2007) Characterization of UgtP: A Direct Regulator of Cell Size in *Bacillus subtilis*, Poster, Molecular Genetics of Bacteria and Phages.
16. Garza, A. C.\*, D. P. Haeusser, A. Z. Buscher, and P. A. Levin (2007) Structure-Function Analysis of the Cell Division Inhibitor EzrA in *Bacillus subtilis*, Poster, Molecular Genetics of Bacteria and Phages.
17. Haeusser, D. P., A. C. Garza\*, A. Z. Buscher, and P. A. Levin (2007) The Division Inhibitor EzrA Acts at Midcell to Maintain the Dynamic Nature of the Cytokinetic ring, Poster, Molecular Genetics of Bacteria and Phages.
18. Hill, N. S. and P. A. Levin (2007) Regulation of a Glucosyltransferase Linking Nutrient Availability to Cell Division, Poster, Molecular Genetics of Bacteria and Phages.
19. Luo, Q., A. Z. Buscher, and P. A. Levin (2007) A Genetic Screen for Factors that Promote FtsZ Assembly, Poster, Molecular Genetics of Bacteria and Phages.

20. Buscher, A. Z., M. Insko, B. E. Lane, and P. A. Levin (2005) Genetic Screens to Identify Positive and Negative Regulators of *Bacillus subtilis* Cell Division, Poster, Molecular Genetics of Bacteria and Phages.
21. Haeusser, D. P. and P. A. Levin (2005) A Model for Regulation of FtsZ Assembly in *Bacillus subtilis* by the Division Inhibitor EzrA, Poster, Molecular Genetics of Bacteria and Phages.
22. Lane, B. E., R. B. Weart, and P. A. Levin (2005) ClpX Inhibits Assembly of the Essential Cell Division Protein FtsZ through an ATP-independent Mechanism, Poster, Molecular Genetics of Bacteria and Phages.
23. Lee, A. H., R. B. Weart, and P. A. Levin (2005) YhxB: An Inhibitor of FtsZ Ring Assembly in *Bacillus subtilis*, Poster, Molecular Genetics of Bacteria and Phages.
24. Weart, R. B., S. Nakano, B. E. Lane, P. Zuber, and P. A. Levin (2005) Regulation of FtsZ Assembly by the ClpX Chaperone, Oral Presentation, Molecular Genetics of Bacteria and Phages.
25. Haeusser, D. P. and P. A. Levin (2005) A Model for Regulation of FtsZ Assembly in *Bacillus subtilis* by the Division Inhibitor EzrA, Poster, American Society for Microbiology Conference on Microbial Development.
26. Lee, A. H., R. B. Weart, and P. A. Levin (2005) YhxB: An Inhibitor of FtsZ Ring Assembly in *Bacillus subtilis*, Poster, American Society for Microbiology Conference on Microbial Development.
27. M. E. Oates\* and P. A. Levin (2004) Mutational Analysis of EzrA: An Inhibitor of Cell Division in *Bacillus subtilis*, Poster, American Society for Microbiology General Meeting.
28. Haeusser, D. P., A. M. Smith, and P. A. Levin (2003) Structure/function Analysis of EzrA a Negative Regulator of Cell Division in *Bacillus subtilis*, Poster, Molecular Genetics of Bacteria and Phages.
29. Insko, M. and P. A. Levin (2003) Genetic Screen for Positive Regulators of Cell Division, Poster, Molecular Genetics of Bacteria and Phages.
30. Oates, M. E.\* and P. A. Levin (2003), Beating up EzrA: Mutational Analysis of a Cell Division Inhibitor, Poster, Molecular Genetics of Bacteria and Phages.
31. Weart, R. B., M. Insko, and P. A. Levin (2003) YhxB: A Modulator of FtsZ ring Assembly in *Bacillus subtilis*, Poster, Molecular Genetics of Bacteria and Phages.
32. Schwartz, R. S. and P. A. Levin (2002) Not Just a Band: Analysis of the Interaction Between the Division Inhibitor EzrA and FtsZ in *Bacillus subtilis*, Oral Presentation, Molecular Genetics of Bacteria and Phages.
33. Weart, R. B. and P. A. Levin (2002) Temporal Regulation of FtsZ Ring Formation in *Bacillus subtilis*, Oral Presentation, Molecular Genetics of Bacteria and Phages.

\*Washington University undergraduate