

# CURRICULUM VITAE

***Bonnie L. Bassler***

Howard Hughes Medical Institute  
Department of Molecular Biology  
329 Lewis Thomas Laboratory  
Princeton University  
Princeton, New Jersey 08544

**Phone:** (609) 258-2857

**Fax:** (609) 258-2957

**E-Mail:** bbassler@princeton.edu

## ***Education:***

- 1984 **B.S.**, Biochemistry, University of California, Davis  
Research Advisors: Dr. Fredrick Troy; Dr. Eric Vimr (presently at  
University of Illinois, Champaign-Urbana)
- 1990 **Ph.D.**, Biochemistry, The Johns Hopkins University, McCollum-Pratt  
Institute, Department of Biology. Research Advisor: Dr. Saul Roseman

## ***Professional Positions:***

- 1990-1993 Postdoctoral Fellow, The Agouron Institute, La Jolla, California  
Laboratory of Dr. Michael Silverman
- 1993-1994 Research Scientist, The Agouron Institute, La Jolla, California
- 1994-2000 Assistant Professor, Department of Molecular Biology,  
Princeton University
- 1996-present Associate Faculty Member, Princeton Environmental Institute
- 2000-2003 Associate Professor, Department of Molecular Biology,  
Princeton University
- 2003-present Professor, Department of Molecular Biology,  
Princeton University
- 2003-2008 Director of Graduate Studies, Department of Molecular Biology,  
Princeton University
- 2005-present Howard Hughes Medical Institute Investigator, Princeton University
- 2008-present Faculty Director for Recruiting and Diversity in the Sciences,  
Department of Molecular Biology, Princeton University
- 2008-2013 Director, Council on Science and Technology, Princeton University
- 2009-2010 President Elect, American Society for Microbiology

- 2010-2011 President, American Society for Microbiology
- 2010-present Associated Faculty, Department of Chemistry, Princeton University
- 2011-2013 Chair, Board of Governors of the American Academy of Microbiology
- 2011-2016 Member, National Science Board, National Science Foundation
- 2012-2016 Board of Directors, American Association for the Advancement of Science
- 2013-present Chair, Department of Molecular Biology, Princeton University

***Honors and Awards:***

- 1980 Regents of University of California, Davis, Scholarship  
Bank of America Science and Mathematics Scholarship
- 1984 Phi Beta Kappa, University of California, Davis  
Phi Kappa Phi, UCD  
Most Outstanding Undergraduate Independent Biochemistry Research  
High Honors graduation from UCD
- 1988 W.R. Grace & Company Fellowship, Johns Hopkins University
- 2002 American Academy of Microbiology Fellow
- 2002 MacArthur Foundation Fellow
- 2003 Theobald Smith Society Waksman Award
- 2003 New Jersey R and D Council, Thomas Edison Patent Award, Medical Technology
- 2004 New York Intellectual Property Lawyers Association, Inventor of the Year
- 2004 American Association for the Advancement of Science Fellow
- 2006 American Society for Microbiology, Eli Lilly and Company Research Award
- 2006 Elected to the National Academy of Sciences
- 2007 Squibb Professor of Molecular Biology, Endowed Chair, Princeton University
- 2007 Elected to the American Academy of Arts and Sciences
- 2008 President's Distinguished Teaching Award, Princeton University
- 2008 World Cultural Council Award for Scientific Merit
- 2009 Wiley Prize in Biomedical Sciences
- 2010 Honorary Degree, Swarthmore College
- 2011 National Academy of Sciences, Richard Lounsbery Award
- 2012 L'Oreal-UNESCO Women in Science Award
- 2012 Elected Foreign Member of the Royal Society
- 2012 Elected to the American Philosophical Society
- 2012 Honorary Degree, Bates College
- 2012 Honorary Degree, Tufts University
- 2013 Elected Foreign Member of EMBO

***Princeton University Molecular Biology Department Committees and Service:***

- 1995-present Professor of Princeton University Courses:  
Microbial Diversity and Pathogenesis (undergraduate)  
From DNA to Human Complexity (undergraduate)  
Advanced Microbial Genetics (graduate)

Introduction to Cellular and Molecular Biology (undergraduate)  
 2002-2004 Graduate Admissions Committee  
 2002-2004 Seminar Committee  
 2002 Chair, Faculty Search Committee  
 2003-2004 Chair, Scientific Direction, Recruiting, and Curriculum Committee  
 2003-2011 Computational & Quantitative Biology Program Executive Committee  
 2005-2008 Genome Institute Executive Committee  
 2006 Guest Lecturer, Microbiology Freshman Seminar  
 2007, 2008 Lecturer, Freshman Seminar Series, Microbes: Menace and Marvels  
 2007 Lecturer, Department of Molecular Biology Senior Summer Seminar Series  
 2007 Lecturer, Department of Molecular Biology/HHMI Summer Teacher's Course  
 2008-present Director of Graduate Recruiting  
 2011 Director of Graduate Studies  
 2010-2011 Member, Structural Biology Search Committee  
 2011-2012 Member, Quantitative and Computational Biology Search Committee  
 2011 Member, Microbiology Tenure Committee  
 2011-present Member, Graduate Admissions Committee  
 2011-2012 Chair, Strategic Planning Committee  
 2012 Chair, Search Committee, Host-Microbe Interactions

***Princeton University Committees and Service:***

1996 Panelist, Women in Science and Education  
 1996-1999 Committee on Academic Standing  
 1997-present Undergraduate Advisor, Rockefeller College  
 1997-present Special Lectures, HHMI Summer Research Program  
 2002-2003 Target of Opportunities Search Committee  
 2003-2004 Graduate School Policy Committee  
 2003-2004 Chair, Biology Umbrella Program Initiative  
 2004-present Chemical Biology Initiative Committee  
 2005-2006 Old Dominion Faculty Fellow, Humanities Council  
 2006 Selection Committee, President's Distinguished Teaching Award  
 2006 Search Committee, Dean of the School of Engineering  
 2006 Mentor, Woodrow Wilson Natl. Junior Faculty Career Enhancement Fellowship  
 2007 Class Day Speaker, Opening Ceremonies  
 2007 Member, Executive Committee, Biology Graduate Umbrella Program  
 2007-2008 Member, Council on Science and Technology  
 2008-2011 Director, Council on Science and Technology  
 2007 Panelist, Academic Affairs Committee, University Trustees  
 2007 Speaker, Induction Ceremony, Phi Beta Kappa  
 2008 James Baldwin Lecturer, Center for African American Studies  
 2008-present BioX Committee, Committee for Direction and Recruitment in Chemistry  
 2008-present Internal Advisory Committee, Keller Center for Innovation and Engineering Education  
 2008 Keynote Speaker, Phi Beta Kappa Induction  
 2008 Speaker, McGraw Center Scholar as Teacher Series  
 2008 Speaker, Molecular Biology Staff Science Talks  
 2008-2014 Member, Freshman Seminar Executive Committee  
 2008-2009 Member, Committee on the Future of Climate and Environmental Sciences at Princeton  
 2009 Alumni Day Faculty Speaker  
 2009 Research Administration Seminars  
 2009, 2012 Freshman Scholars: Ways Of Knowing Seminars

2011-present Fellow, Wilson College  
 2012 Chair, Schmidt Fund Life Sciences Award Committee

**Non-University Committees and Service:**

1996-2000 Instructor, Advanced Bacterial Genetics Course, Cold Spring Harbor Laboratory  
 2000 Panelist, National Science Foundation Grant Review, Microbial Genetics Section  
 2001 Panelist, National Science Foundation Grant Review, Signal Transduction Section  
 2001 Organizer and Co-Chair, Cell-Cell Signalling in Bacteria Conference, Snowbird, Utah  
 2001 Visiting Professor, Burroughs Wellcome Fund, Louisiana State University  
 2001-2004 Editorial Board, *Molecular and Cellular Proteomics*  
 2001-2004 Associate Editor, *Genetics*  
 2001-2010 Editorial Board, *Journal of Bacteriology*  
 2001-present Member, Faculty of 1000  
 2002-2009 American Society for Microbiology Conferences Committee  
 2002-2003 American Academy of Microbiology, Promega Biotechnology Research Award  
 Nomination Committee  
 2003-2006 American Academy of Microbiology, Promega Biotechnology Research Award  
 Selection Committee  
 2003-2006 Panelist, National Science Foundation Grant Review, Prokaryotic Biology Section  
 2003 Scientific Advisory Board, Damon Runyon Cancer Research Foundation  
 2003 Planning Committee, National Academies Keck Futures Initiative  
 2003-2009 Editor, *Molecular Microbiology*  
 2004 Organizer and Chair, Cell-Cell Signalling in Bacteria Conference, Banff, Canada  
 2004 Member, National Science Foundation Search Committee for Assistant Director of  
 Biological Sciences  
 2004-2005 International Organizing Committee, IUMS  
 2005 Committee, National Academy of Sciences, New Directions in the Study of  
 Antimicrobial Therapeutics: New Classes of Antimicrobials  
 2005-2007 Chair, American Academy of Microbiology, Promega Biotechnology Research Award  
 Selection Committee  
 2005-2007 Member, Gordon Research Council  
 2006 Selby Visiting Professor and Lecturer, Australia  
 2006 Co-Organizer, DARPA Conf., Cooperation Among Microorganisms, Park City, Utah  
 2006-2011 Editorial Board, *Annual Review of Genetics*  
 2006-2009 Advisory Committee, Burroughs Wellcome Fund Interfaces in Science Program  
 2007 Organizer and Chair, Gordon Research Conference Mechanisms of Microbial  
 Adhesion, Salve Regina University  
 2007 Editor with Stephen Winans, *Chemical Communication Among Microbes*, (Book), ASM  
 Press, Washington DC  
 2007 Panelist, NIH Grant Review Prokaryotic Cell and Molecular Biology Section  
 2007 Selection Committee, Wilson Medal of the American Society for Cell Biology  
 2007 Thesis Examiner, Dartmouth Medical School, Department of Microbiology  
 2007 Panelist, Site Visit, National Cancer Institute, Bethesda, MD  
 2007-2008 Committee Member, National Academy of Sciences, Forefronts of Science at the  
 Interface of the Physical and Life Sciences  
 2007 Committee Member, National Institutes of Health, Fostering Innovation  
 2008 Council Designee, Class Membership Committee, National Academy of Sciences,  
 Irvine, CA  
 2008 Guest Lecturer, Women in Science Course, Western Kentucky University  
 2008-2009 Committee Member, National Academies of Sciences, Complexity Initiative  
 2008-2009 American Academy of Microbiology, Committee on Election to Fellowship

- 2008 Speaker and Panelist, ASM-NIGMS-Sponsored, Annual Biomedical Research Conference for Minority Students, Orlando, FL
- 2008-2012 Panelist NIH Study Section, Prokaryotic Cell and Molecular Biology
- 2008-2009 Waksman Award Selection Committee, National Academy of Sciences
- 2008-2009 Review Committee, National Academy of Sciences, Board on Life Sciences
- 2008-present Associate Editor, *Cell*
- 2009 ASM Ambassador Speaker, Microbiology Society of Korea, JeJu Island, Korea
- 2009 Conference Organizer, UNIA, Bacterial Regulatory Networks, Baeza, Spain
- 2009 Chair and Organizer, Steering Committee, Keck Futures Initiatives-National Academies of Science, Synthetic Biology: Building on Nature's Inspiration, Irvine, CA
- 2009 Member, Review Committee, Biomedical Program, W. M. Keck Foundation
- 2009-2010 Election to Membership Panel, American Academy of Arts and Sciences
- 2010 Instructor EMBO/FEBS Host-Microbe Interactions Course, Spetses, Greece
- 2009-2012 Board on Life Sciences, National Academy of Sciences
- 2009-2015 Board of Editors, *ASM mBio Journal*
- 2009-2012 Steering Committee, ASM General Meeting Planning Committee
- 2009-2011 Chair, ASM Task Force, Membership Strategic Planning
- 2010 Steering Committee, American Academy of Microbiology Colloquium on Science Education
- 2010 Committee Member, National Academy of Sciences Food, Energy, and Climate Bold Challenges Workshop
- 2010 Testimony, President's Commission for the Study of Bioethical Issues, Washington, DC
- 2010-present Advisory Council, Wagner Free Institute of Science, Philadelphia, PA
- 2010-present ASM Communications Ancillary Committee, Washington, DC
- 2010-2011 Chair, National Academy of Sciences, Selman A. Waksman Award Committee
- 2011-2015 Chief Editor, *Annual Review of Genetics*
- 2011-2013 Chair, National Academy of Sciences, Biological Sciences Nominating Group
- 2011-2012 Member, ASM Task Force, Communications Strategic Planning
- 2011-2012 Member STEM Advisory Task Force, Stuart Country Day School, Princeton, NJ
- 2011 Member, Steering Committee, Institute of Medicine, Social Behavior of Microbial Communities Forum
- 2011-2012 Member, ASM Task Force, Enhancing Interactions with European Societies
- 2012 Jury Member, L'Oreal USA Fellowship
- 2012 Speaker and Moderator, White House Bioeconomy Blueprint Roll Out, Washington, DC
- 2012 Member, National Academy of Sciences Lounsbery Award Selection Committee
- 2013-2016 Member, Advisory Board, Gruber Genetics Prize American Society of Human Genetics

**Community Outreach and Service:**

- 1996 Instructor, Institute on Neurobiology, Woodrow Wilson National Fellowship Foundation, National Program for Teachers, Princeton, NJ
- 1996 Instructor/Laboratory Designer, National Association of Biology Teachers, Princeton, NJ
- 2001-present Organizer, PULSE (Princeton University Local Science Education) Princeton, NJ
- 2003-present Advisor, Science Museum Education and Exhibition Program, New York, NY
- 2005 Keynote Speaker, Women in Leadership Symposium, Princeton, NJ
- 2005-2006 Advisor and Participant, Liz Lerman Dance Exchange: Ferocious Beauty Genome, Takoma Park, MD
- 2006 Keynote Speaker, Dining by Design, Princeton, NJ
- 2006 NPR, All Things Considered, Listening Guide to Bacteria, Washington, DC
- 2006 PBS, NOVA Science Now, the Bacteria Whisperer, New York, NY
- 2007 Keynote Speaker, Midwest Regional School Superintendents, Princeton, NJ

- 2007 Keynote Speaker, Opportunities for Women in Science, Math, Technology, & Engineering, University of Wisconsin, Oshkosh, WI
- 2007 Keynote Speaker, GlaxoSmithKline Women in Science Event 2007 Raleigh, NC
- 2008 Keynote Speaker, Society of Cosmetic Chemists, New Brunswick, NJ
- 2008 Keynote Speaker, Association for Science Teacher Education, St. Louis, MO
- 2008 Keynote Speaker, Texas A and M University Distinguished Lecture Series, College Station, TX
- 2008 Sigma Xi Research Society, William Potter Lectureship, Philadelphia, PA
- 2008 ASCB- and HHMI-Sponsored iBio Seminars, San Francisco, CA
- 2008 Advisor and Participant, Cells and the Universe Inside Us, NSF-Sponsored Liz Lerman Dance Exchange program, Baltimore Science Museum, MD
- 2008 Speaker, Panelist, and Lecturer (with Liz Lerman Dance Exchange) 100 Years Celebration, Montclair University, NJ
- 2008 Speaker, Princeton Senior Resource Center, Science Café, Princeton, NJ
- 2008 Speaker, At the Moment, Princeton, NJ
- 2008 InterViews, National Academy of Sciences, Washington, DC
- 2008 Speaker, Inaugural Season, Distinctive Voices-Jonsson Center, National Academies of Sciences, Woods Hole, MA
- 2008 Speaker, Natural History Museum, NOVA: A Cosmic Conversation, New York, NY
- 2008 Keynote Speaker, Panelist, Ferocious Beauty Genome, Lafayette, College, Easton, PA
- 2008 Keynote Speaker, NAS Science and Entertainment Exchange, Hollywood, CA
- 2008 Speaker, Princeton Plasma Physics Laboratory Colloquia, Princeton, NJ
- 2009 Speaker, Mercer County Educational Leaders, Trenton, NJ
- 2009 Speaker, Distinctive Voices, National Academies of Sciences, Irvine, CA
- 2009 Keynote Speaker, California Science Teachers Association, Palm Springs, CA
- 2009 Speaker, Capital Science Evening, Carnegie Institution for Science, Washington, DC
- 2009 Speaker, Koshland Science Museum, Washington, DC
- 2009 Speaker, HHMI Holiday Lectures on Science Event/DVD Production, Bethesda, MD
- 2009 Organizer, Princeton Univ. Holiday Children's Program: "Germs a Detective Story"
- 2010 Leidy Society Lecturer, Wagner Free Institute of Science, Philadelphia, PA
- 2010 Speaker, Science on Saturday, Princeton Plasma Physics Laboratory, Princeton, NJ
- 2010 Speaker, USA Science and Engineering Festival: Nifty Fifty Program, Washington, DC
- 2010 Davidson Lecturer, Bronx Science High School, NY, NY
- 2010 Meet the Scientist, ASM Podcasts
- 2010 Panelist, The Future Looks Bright, Smithsonian Magazine, Washington, DC
- 2010 Speaker, This Week in Tech, Futures in Biotech, TWit Newscast Network Radio
- 2011 Distinguished Visiting Scientist, Friends' Central School, Wynnewood, PA
- 2011 Laumont Lecturer, Spence School, New York, NY
- 2011 Rajpat Lecturer, University of Maryland, Baltimore, MD
- 2011 Keynote Speaker, Metropolitan Association of College and University Biologists Conference West Orange, NJ
- 2011 Brookhaven Natl. Laboratory Women in Science Charter Colloquium, Brookhaven, NY
- 2011 Commencement Forum/Frank Rothman Forum, Brown University, Providence, RI
- 2011 SciGirls, PBS/NSF Sponsored-television and website
- 2011 Public Lecture, Fermi Labs, Batavia, IL
- 2011 Keynote Speaker, Present Day Club, Princeton, NJ
- 2011 Tiger Talk, (for 900 NJ/PA high school students) Princeton, NJ
- 2012-2013 Kern-Medina Seminars, Princeton, NJ
- 2012 Science on Tap, Philadelphia, PA
- 2012 BBC Horizon Series: The Cell Series, London, England
- 2012 BBC-Wide-Eyed Entertainment: The Epic Battle for the Cell Series, London, England
- 2012 Keynote Speaker, Communities Without Walls, Princeton, NJ
- 2013 Sci-Café, Natural History Museum, NY, NY

2013            Microbes at Night, Washington, DC.

**Scientific or Other Advisory Boards:**

1999-2005      Quorex Pharmaceuticals, San Diego, CA  
2002-2007      Cumbre, Dallas, TX  
2005-2006      AthenaBio, Philadelphia, PA  
2006-2007      Transition State Therapies, Boston, MA  
2006-2012      Max Planck Institute for Infection Biology, Berlin Germany  
2006-2010      BacTalk, Princeton, NJ  
2007-2011      Cubist Pharmaceuticals, Lexington, MA  
2008-2010      Pfizer Global Research, Groton, CT  
2008-2012      Agile Scientific, Chapel Hill, NC  
2008-2009      Liz Lerman Dance Exchange, Takoma Park, MD  
2009            Tribeca Film Institute Sloan Film Maker Fund, New York, NY  
2009-2013      Jane Coffin Childs Memorial Fund, Board of Scientific Advisors  
2009-2012      Howard Hughes Medical Institute, Science Education Advisory Board  
2009-2012      Discovery Communication, Science Channel, Board of Scientific Advisors  
2010-present   Whitehead Institute, Board of Scientific Advisors  
2010-present   IBio Seminars and Magazine, Board of Scientific Advisors (HHMI/ASCB Sponsored)  
2011-2016      PEW Charitable Trusts, Board of Scientific Advisors  
2011-2012      Instituto De Tecnologia Quimica Biologica, Lisbon, Portugal  
2011            NSF-Sponsored, "It's About Discovery" Teacher Preparation Program, Lima, OH  
2011-2016      President's National Science Board, Member  
2012-present   Gordon and Betty Moore Foundation, Board of Scientific Advisors  
2012-2013      Marian Koshland Science Museum of the National Academy of Sciences  
2012-present   TED Science Review Board  
2012-present   L'Oreal Corporation

**Publications:**

1. Hallenbeck, C., E. Vimr, F. Yu, B. Bassler, and F. Troy. 1987. Purification and properties of a bacteriophage-induced endo-N-acetylneuraminidase specific for poly-a-2,8-sialosyl carbohydrate units. *J. Biol. Chem.* 262:3553-3561.
2. Bassler, B., P. Gibbons, and S. Roseman. 1989. Chemotaxis to chitin oligosaccharides by *Vibrio furnissii*, a chitinivorous marine bacterium. *Biochem. Biophys. Res. Commun.* 161:1172-1176.
3. Yu, C., A. Lee, B. Bassler, and S. Roseman. 1991. Chitin utilization by marine bacteria: A physiological function for bacterial adhesion to immobilized carbohydrates. *J. Biol. Chem.* 266:24260-24267.
4. Bassler, B., P. Gibbons, C. Yu, and S. Roseman. 1991. Chitin utilization by marine bacteria: Chemotaxis to chitin oligosaccharides by *Vibrio furnissii*. *J. Biol. Chem.* 266:24268-24275.
5. Bassler, B., C. Yu, Y. Lee, and S. Roseman. 1991. Chitin utilization by marine bacteria: Degradation and catabolism of chitin oligosaccharides by *Vibrio furnissii*. *J. Biol. Chem.* 266:24276-24286.

6. Yu, C., B. Bassler, and S. Roseman. 1993. Chemotaxis of the marine bacterium *Vibrio furnissii* to sugars: A potential mechanism for initiating the chitin catabolic cascade. *J. Biol. Chem.* 268:9405-9409.
7. Bassler, B., M. Wright, R. Showalter, and M. Silverman. 1993. Intercellular signalling in *Vibrio harveyi*: Sequence and function of genes regulating expression of luminescence. *Mol. Microbiol.* 9:773-786.
8. Bassler, B., M. Wright, and M. Silverman. 1994. Sequence and function of *luxO*, a negative regulator of luminescence in *Vibrio harveyi*. *Mol. Microbiol.* 12:403-412.
9. Bassler, B.L., M. Wright, and M.R. Silverman. 1994. Multiple signalling systems controlling expression of luminescence in *Vibrio harveyi*: Sequence and function of genes encoding a second sensory pathway. *Mol. Microbiol.* 13:273-286.
10. Bassler, B.L., and M.R. Silverman. 1994. Intercellular communication in marine *Vibrio*: Density-dependent regulation of the expression of bioluminescence. In: *Two Component Signal Transduction*, eds. J.A. Hoch and T.J. Silhavy, American Society for Microbiology, Washington, DC, pp. 431-445.
11. Bassler, B.L., E.P. Greenberg and A.M. Stevens. 1997. Cross-species induction of luminescence in the quorum sensing bacterium *Vibrio harveyi*. *J. Bacteriol.* 179:4043-4045. PMID: PMC179216.
12. Surette, M.G. and B.L. Bassler. 1998. Quorum sensing in *Escherichia coli* and *Salmonella typhimurium*. *Proc. Natl. Acad. Sci. USA* 95:7046-7050. PMID: PMC22733.
13. Bassler, B.L. 1999. A multi-channel two-component signalling relay controls quorum sensing in *Vibrio harveyi*. In: *Bacterial Cell-Cell Signalling*, eds. G. Dunny and S. Winans. American Society for Microbiology, Washington, DC p. 259-273.
14. Surette, M.G. and B.L. Bassler. 1999. Regulation of autoinducer production in *Salmonella typhimurium*. *Mol. Microbiol.* 31:585-595.
15. Freeman, J.A. and B.L. Bassler. 1999. A genetic analysis of the function of LuxO, a two-component response regulator involved in quorum sensing in *Vibrio harveyi*. *Mol. Microbiol.* 31:665-677.
16. Freeman, J.A. and B.L. Bassler. 1999. Sequence and function of LuxU: A two-component phosphorelay protein that regulates quorum sensing in *Vibrio harveyi*. *J. Bacteriol.* 181:899-906. PMID: PMC93457.
17. Surette, M.G., M.B. Miller and B.L. Bassler. 1999. Quorum sensing in *Escherichia coli*, *Salmonella typhimurium* and *Vibrio harveyi*: A new family of genes responsible for autoinducer production. *Proc. Natl. Acad. Sci. USA* 96:1639-1644. PMID: PMC15544.
18. Bassler, B.L. 1999. How bacteria talk to each other: Regulation of gene expression by quorum sensing. *Curr. Opin. Microbiol.* 2:582-587.
19. Freeman, J.A., B.N. Lilley, and B.L. Bassler. 2000. A genetic analysis of the functions of LuxN: a two-component hybrid sensor kinase that regulates quorum sensing in *Vibrio harveyi*. *Mol. Microbiol.* 35:139-149.



20. Lilley, B.N. and B.L. Bassler. 2000. Regulation of quorum sensing in *Vibrio harveyi* by LuxO and Sigma-54. *Mol. Microbiol.* 36:940-954.
21. Joyce, E.A., B.L. Bassler and A. Wright. 2000. Evidence for a signaling system in *Helicobacter pylori*: Detection of a *luxS*-encoded autoinducer. *J. Bacteriol.* 182:3638-3643. PMID:PMC94532.
22. Miller, M.B. and B.L. Bassler. 2001. Quorum Sensing. In: *The Prokaryotes*. M. Dworkin (ed). Electronic Format.
23. Bassler, B.L. 2001. Tiny conspiracies: cell-to-cell communication allows bacteria to coordinate their activity. *Natural History Magazine.* 110:16-22.
24. Miller, M.B. and Bassler, B.L. 2001. Quorum sensing in bacteria. *Ann. Rev. Microbiol.* 55:165-199.
25. Schauder, S. and B.L. Bassler. 2001. The languages of bacteria. *Genes and Dev.* 15:1468-1480.
26. Schauder, S., K. Shokat, M.G. Surette and B.L. Bassler. 2001. The LuxS family of bacterial autoinducers: Biosynthesis of a novel quorum sensing signal molecule. *Mol. Microbiol.* 41:463-476.
27. Taga, M.E., J.L. Semmelhack and B. L. Bassler. 2001. The LuxS-dependent autoinducer AI-2 controls the expression of an ABC transporter that functions in AI-2 uptake in *Salmonella typhimurium*. *Mol. Microbiol.* 42:777-793.
28. Winans, S.C. and B.L. Bassler. 2002. Mob psychology. *J. Bacteriol.* 184: 873-883. PMID: PMC134813.
29. Chen, X., S. Schauder, N. Potier, A. Van Dorsselaer, I. Pelczar, B.L. Bassler, and F.M. Hughson. 2002. Structural identification of a bacterial quorum sensing signal containing boron. *Nature* 415: 545-549.
30. Zhu, J., M.B. Miller, R.E. Vance, M. Dziejman, B.L. Bassler and J. Mekalanos. 2002. Quorum sensing regulators control virulence gene expression in *Vibrio cholerae*. *Proc. Natl. Acad. Sci. USA* 99: 3129-3134. PMID: PMC122484.
31. Bassler, B.L. 2002. Small talk: cell-to-cell communication in bacteria. *Cell* 109: 421-424.
32. Miller, M.B., K. Skorupski, D. Lenz, R.K. Taylor and B.L. Bassler. 2002. Parallel quorum sensing systems converge to regulate virulence in *Vibrio cholerae*. *Cell* 110: 303-314.
33. Mok, K.C. and B.L. Bassler. 2002. Two-component control of quorum sensing in Gram negative bacteria. In: *Histidine Kinases in Signal Transduction*, eds. M. Inouye and R. Dutta, Academic Press, London, pp. 313-340.
34. Mok, K.C., N.S. Wingreen, and B.L. Bassler. 2003. *Vibrio harveyi* quorum sensing: a coincidence detector for two autoinducers controls gene expression. *EMBO J.* 22: 870-881. PMID: PMC145445.
35. Xavier, K.B. and B.L. Bassler. 2003. LuxS quorum sensing: more than just a numbers game. *Curr. Opin. Microbiol.* 6: 191-197.

36. Hammer, B.L. and B.L. Bassler. 2003. Quorum sensing controls biofilm formation in *Vibrio cholerae*. *Mol. Microbiol.* 50:101-114.
37. Taga, M.E., S.T. Miller and B.L. Bassler. 2003. Lsr-mediated transport and processing of AI-2 in *Salmonella typhimurium*. *Mol. Microbiol.* 50:1411-1427.
38. Federle, M.J. and Bassler, B.L. 2003. Inter-species communication in bacteria. *J. Clin. Invest.* 112:1291-1299. PMID: PMC228483.
39. Zhao, G., W. Wan, S. Mansouri, J.F. Alfaro, B.L. Bassler, K.A. Cornell and Z.S. Zhou. 2003. Chemical synthesis of S-ribosylhomocysteine and activity assay as a LuxS substrate. *Bioorg. Med. Chem. Lett.* 13: 3897-3900.
40. Taga, M.E. and B.L. Bassler. 2003. Chemical communication in bacteria. *Proc. Natl. Acad. Sci. USA* 100:14549-14554. PMID: PMC304117.
41. Henke, J.M. and B.L. Bassler. 2004. Quorum sensing controls type III secretion in *Vibrio harveyi*. *J. Bacteriol.* 186:3794-3805. PMID: PMC419960.
42. Lenz, D.H., K.C. Mok, B.N. Lilley, R. Kulkarni, N.S. Wingreen, and B.L. Bassler. 2004. The small RNA chaperone Hfq and multiple small RNAs control quorum sensing in *Vibrio harveyi* and *Vibrio cholerae*. *Cell* 118:69-82.
43. Miller, S.T., K.B. Xavier, S.R. Campagna, M.E. Taga, M.F. Semmelhack, B.L. Bassler, and F.M. Hughson. 2004. *Salmonella typhimurium* recognizes a chemically distinct form of the bacterial quorum sensing signal AI-2. *Molecular Cell* 15:677-687.
44. Semmelhack, M.F., S.R. Campagna, C. Hwa, M.J. Federle, and B.L. Bassler. 2004. Boron binding with the quorum sensing signal AI-2 and analogs. *Org. Lett.*, 6:2635-2637.
45. Henke, J.M. and B.L. Bassler. 2004. Bacterial social engagements. *Trends in Cell Biology*, 14:648-656.
46. Henke, J.M. and B.L. Bassler. 2004. Three parallel quorum sensing systems regulate gene expression in *Vibrio harveyi*. *J. Bacteriol.*, 186:6902-6914. PMID: PMC522208.
47. Xavier, K.B. and B.L. Bassler. 2005. Regulation of uptake and processing of the quorum sensing autoinducer AI-2 in *Escherichia coli*. *J. Bacteriol.*, 187:238-248. PMID: PMC538819.
48. Semmelhack, M.F. S. R. Campagna, M.J. Federle, and B.L. Bassler. 2005. An expeditious synthesis of DPD and boron binding studies. *Org. Lett.* 7:569-572.
49. Ulrich, D., D. Kojetin, B. L. Bassler, J. Cavanagh, and J. P. Loria. 2005. Solution structure and dynamics of LuxU from *Vibrio harveyi*, a phosphotransferase protein involved in bacterial quorum sensing. *J. Mol. Biol.* 347:297-307.
50. Neiditch, M.B., M. Federle, S.T. Miller, B.L. Bassler, and F.M. Hughson. 2005. Regulation of LuxPQ receptor activity by the quorum sensing signal autoinducer-2. *Molecular Cell.* 18:507-518.

51. Waters, C.M. and B.L. Bassler. 2005. Quorum sensing: cell to cell communication in bacteria. *Annu. Rev. Cell and Dev. Biol.* 21:319-346.
52. Xavier, K.B. and B.L. Bassler. 2005. Interference with AI-2-mediated bacterial cell-cell communication. *Nature*, 437:750-753. PMID: PMC1388276.
53. Lenz, D.H., M.B. Miller, J. Zhu, R.V. Kulkarni, and B.L. Bassler. 2005. The VarS/VarA two-component system, through the small RNA binding protein CsrA and three redundant small RNAs CsrB, CsrC, and CsrD, controls quorum sensing in *Vibrio cholerae*. *Mol. Microbiol.*, 58:1186-1202.
54. Bassler, B.L. 2006. Cell-to-cell communication in bacteria: a chemical discourse. In: *The Harvey Society Lectures*. John Wiley and Sons, Inc. Hoboken, NJ. Series 100, pp. 123-142.
55. Camilli A. and B. L. Bassler. 2006. Bacterial small-molecule signaling pathways. *Science*, 311:1113-1116. PMID: PMC2776824.
56. Bassler, B.L. and R. Losick. 2006. Bacterially Speaking. *Cell*, 125:237-246.
57. Rickard, A.H., R.J. Palmer Jr., D.S. Blehert, S.R. Campagna, M.F. Semmelhack, P.G. Eglund, B.L. Bassler, and P.E. Kolenbrander. 2006. Autoinducer-2: a concentration-dependent signal for mutualistic bacterial biofilm growth. *Mol. Microbiol.*, 60:1446-1456.
58. Neiditch, M.B., M.J. Federle, A. J. Pompeani, R.C. Kelly, D.L. Swem, P.D. Jeffrey, B.L. Bassler, and F.M. Hughson. 2006. Autoinducer-2-induced asymmetry regulates LuxPQ quorum-sensing signal transduction. *Cell*, 126: 1095-1108.
59. Timmen, M., B.L. Bassler, and K. Jung. 2006. AI-1 Influences the kinase activity but not the phosphatase activity of LuxN of *Vibrio harveyi*. *J. Biol. Chem.*, 281: 2439-24404.
60. Waters, C.M. and B.L. Bassler. 2006. Using shared regulatory components, the *Vibrio harveyi* quorum sensing system discriminates between multiple autoinducers in the control of gene regulation. *Genes & Dev.*, 20:2754-2767. PMID:PMC1578700.
61. Walsh, C.T., B.L. Bassler, C.F. Nathan, T.F. O'Brien, M. Riley, R.J. White, G.D. Wright. 2006. *Treating Infectious Diseases in a Microbial World*. National Research Council. National Academy of Science. USA.
62. Lenz, D.H. and B.L. Bassler. 2007. The small nucleoid protein Fis is involved in *Vibrio cholerae* quorum sensing. *Mol. Microbiol.*, 63:859-871.
63. Tu, K.C. and B.L. Bassler. 2007. Multiple small RNAs act additively to integrate sensory information and control quorum sensing in *Vibrio harveyi*. *Genes & Dev.*, 21:221-233. PMID:PMC1770904.
64. Xavier, K.B., S.T. Miller, W. Lu, J.H. Kim, J. Rabinowitz, I. Pelczer, M.F. Semmelhack, and B.L. Bassler. 2007. Phosphorylation and processing of the quorum-sensing molecule AI-2 in enteric bacteria. *ACS Chemical Biology*, 2:128-136.
65. Hammer, B. K. and B.L. Bassler 2007. Small regulatory RNAs circumvent the conventional quorum-sensing pathway in *Vibrio cholerae*. *Proc Natl Acad Sci, USA*. 104:11145-11149. PMID:PMC1888797.

66. Rader, B.A., S.R. Campagna, M.F. Semmelhack, B.L. Bassler, and K. Guillemin. 2007. The quorum sensing molecule AI-2 regulated motility and flagellar morphogenesis in *Helicobacter pylori*. *J. Bacteriol.* 189:6109-6117. PMID:PMC1951907.
67. Higgins, D.A., M.E. Pomianek, C.M. Kraml, R.K. Taylor, M.F. Semmelhack and B.L. Bassler. 2007. The major *Vibrio cholerae* autoinducer and its role in virulence factor production. *Nature.* 450:883-886.
68. Svenningsen, S.L., C.M. Waters and B.L. Bassler. 2008. A negative feedback loop involving small RNAs accelerates *Vibrio cholerae*'s transition out of quorum sensing mode. *Genes & Dev.* 22:226-238. PMID:PMC2192756.
69. Winans, S.C. and B. L. Bassler (Eds). 2008. Chemical Communication Among Bacteria. American Society for Microbiology, Washington, DC.
70. Hammer, B. K. and B.L. Bassler 2008. Signal integration in the *Vibrio harveyi* and *Vibrio cholerae* quorum sensing circuits. In: *Chemical Communication Among Microbes*, eds. B.L. Bassler and S.C. Winans, American Society for Microbiology, Washington, DC. pp. 323-332.
71. Nackerdien, Z. A. Keynan, B.L. Bassler, J. Lederberg and D.S. Thaler. 2008. Quorum sensing influences *Vibrio harveyi* growth rates in a manner not fully accounted for by the marker effect of bioluminescence. *PLoS ONE.* 3:1-9. PMID:PMC2249925.
72. Waters, C.M., W. Lu, J. Rabinowitz, and B.L. Bassler. 2008. Quorum sensing controls biofilm formation in *Vibrio cholerae* through modulation of cyclic di-GMP. *J. Bacteriol.* 190:2527-2536. PMID:PMC2293178.
73. Swem, L.R., D.S. Swem, N.S. Wingreen, and B.L. Bassler. 2008. Deducing receptor signaling parameters from in vivo analysis - LuxN/AI-1 quorum sensing in *Vibrio harveyi*. *Cell.* 134:461-473. PMID:PMC2585989.
74. Pompeani, A.J., J.I. Irgon, M.F. Berger. M.L. Bulyk, N.S. Wingreen, and B.L. Bassler. 2008. The *Vibrio harveyi* master quorum-sensing regulator, LuxR, a Tet-R-type protein is both an activator and a repressor: DNA recognition and binding specificity at target promoters. *Mol. Microbiol.* 70: 76-88. PMID:PMC2628434.
75. Nadell, C.D., B.L. Bassler and S.A. Levin. 2008. Observing bacteria through the lens of social evolution. *Journal of Biology.* 7:27. PMID:PMC2776406.
76. Tu, K.C., C.M. Waters, S.L. Svenningsen and B.L. Bassler. 2008. A small-RNA-mediated negative feedback loop controls quorum-sensing dynamics in *Vibrio harveyi*. *Mol. Microbiol.* 70: 896-907. PMID:PMC2680268.
77. Hickson, J., S. D. Yamada, J. Berger, J. Alverdy, J. O'Keefe, B.L. Bassler, and C. Rinker-Schaeffer. 2009. Societal interactions in ovarian cancer metastasis: a quorum-sensing hypothesis. *Clin. Exp. Metastasis.* 26: 67-76.
78. Hammer, B.K. and B.L. Bassler. 2009. Distinct sensory pathways in *Vibrio cholerae* El Tor and Classical biotypes modulate c-di-GMP levels to control biofilm formation. *J. Bacteriol.* 191:169-177. PMID:PMC2612459.

79. Svenningsen, S.L., K.C. Tu, and B.L. Bassler. 2009. Gene dosage compensation calibrates four regulatory RNAs to control *Vibrio cholerae* quorum sensing. *EMBO*. 28:429-439. PMID:PMC2632942.
80. Long, T., K.C. Tu, Y. Wang, P. Mehta, N.P. Ong, B.L. Bassler, and N.S. Wingreen. 2009. Quantifying the integration of quorum-sensing signals in *Vibrio harveyi* with single-cell resolution. *PLoS Biology*. 7:640-649. PMID:PMC2661960.
81. Swem, L.R., D.L Swem, C.T. O'Loughlin, R. Gatmaitan, B. Zhao, S.M. Ulrich, and B.L. Bassler. 2009. A quorum-sensing antagonist targets both membrane-bound and cytoplasmic receptors and controls bacterial pathogenicity. *Molecular Cell*. 35:143-153. PMID:PMC2741501.
82. Ng, W-L. and B.L. Bassler. 2009. Bacterial quorum-sensing network architectures. *Annu. Rev. Genetics*. 43:197-222. PMID:PMC1968607.
83. Kelly, R.C. M.E Bolitho, D.A. Higgins, W. Lu, W.-L. Ng, P.D. Jeffrey, J.D. Rabinowitz, M.F. Semmelhack, F.M. Hughson, and B.L Bassler. 2009. The *Vibrio cholerae* quorum-sensing autoinducer CAI-1: analysis of the biosynthetic enzyme CqsA. *Nature Chem. Biol.* 12:891-895. PMID: PMC2847429.
84. Mehta, P.J., S, Goyal, T. Long, B.L. Bassler, and N.S. Wingreen. 2009. Information processing and signal integration in bacterial quorum sensing. *Molecular Systems Biology*.5:325. PMID:PMC2795473.
85. Tu, K.C., T. Long, S.L Svenningsen, N.S. Wingreen, and B.L. Bassler. 2010. Negative feedback loops involving small regulatory RNAs precisely control the *Vibrio harveyi* quorum-sensing response. *Molecular Cell*. 37:567-579. PMID: PMC2844700.
86. Teng, S-W., Y. Wang, K.C. Tu, T. Long, N.S. Wingreen, B.L. Bassler, and N.P. Ong. 2010. Measurement of the copy number of the master quorum-sensing regulator of a bacterial cell. *Biophysical J*. 98:2024-2031. PMID: PMC2862190.
87. Ng, W-L., Y. Wei, L.J. Perez, J. Cong, T. Long, M. Koch, M.F. Semmelhack, N.S. Wingreen, and B.L. Bassler. 2010. Probing bacterial transmembrane histidine kinase receptor-ligand interactions with natural and synthetic molecules. *Proc Natl Acad Sci, USA*. 107:5575-5580. PMID: PMC2851778.
88. Waters, C.M., J.T. Wu, M.E. Ramsey, R.C. Harris, and B.L. Bassler. 2010. Quorum sensing controls type three secretion in *Vibrio harveyi* through repression of ExsA. *Appl and Environ. Microbiol.* 2010 Aug;76(15):4996-5004. Epub 2010 Jun 11. PMID: PMC 2916497.
89. Bassler, B.L. 2010. Small cells – big future. *Molecular Biology of the Cell*. 22:3786-3787. PMID: PMC 2982112.
90. Bassler, B.L. 2010. Cell to Cell Communication. *Proc. Am. Philos. Soc.* 154:307-314.
91. Rutherford, S.T. J.C van Kessel, Y. Shao, and B.L. Bassler. 2011. AphA and LuxR/HapR reciprocally control quorum sensing in vibrios. *Genes and Dev*. 25:397-408. PMID: PMC 3042162.

92. Wei, Y. L.J. Perez, W-L. Ng, M.F. Semmelhack, and B.L. Bassler. 2011. Mechanism of *Vibrio cholerae* autoinducer-1 biosynthesis. *ACS Chemical Biology*. 6: 356-365. PMID: PMC3077805.
93. Ng, W-L., L.J. Perez, Y. Wei, C. Kraml, M.F. Semmelhack, and B.L. Bassler. 2011. Signal production and detection specificity in *Vibrio* CqsA/CqsS quorum-sensing systems. *Mol Microbiol*. 79:1407-1417. PMID:PMC3285556.
94. Chen, G., L.R. Swem, D.L. Swem, D.L. Stauff, C.T. O'loughlin, P.D. Jeffrey, B.L. Bassler, and F.M. Hughson. 2011. A strategy for antagonizing quorum sensing. *Mol. Cell*. 42:199-209.
95. Teng, S-W., Schaffer, J.N., Tu, K.C., Mehta, P., Lu, W., Ong, N.P., Bassler, B.L., and N.S. Wingreen. 2011. Active regulation of receptor ratios controls Integration of quorum-sensing signals in *Vibrio harveyi*. *Mol. Syst. Biol*. 7:491. PMID: PMC3130561.
96. Stauff, D.L. and B.L. Bassler. 2011. Quorum Sensing in *Chromobacterium violaceum*: DNA Recognition and Gene Regulation by the CviR Receptor. *J. Bacteriol*. 193:3871-3878. PMID: PMC3147534 (available 2/1/2012).
97. Wang, Y., K.C. Tu, N.P. Ong, B.L. Bassler, and N.S. Wingreen. 2011. Protein level fluctuation correlation at the microcolony level and its application to the *Vibrio harveyi* quorum-sensing circuit. *Biophys. J*. 100:3045-3053.
98. Nadell, C.D. and B.L. Bassler. 2011. A fitness trade-off between local competition and dispersal in *Vibrio cholerae* biofilms. *Proc Natl Acad Sci, USA*. 108:14181-14185. PMID:PMC3161532.
99. Bolitho, M.E\*., L. J Perez\*, M.J. Koch, W-L. Ng, B.L. Bassler, and M.F Semmelhack. 2011. Small molecule probes of the receptor binding site in the *Vibrio cholerae* CAI-1 quorum sensing circuit. *Bioorg. and Med. Chem*. 19: 6906-6918.
100. Shao, Y. and B.L. Bassler. 2012. Quorum-sensing non-coding small RNAs use unique pairing regions to differentially control mRNA targets. *Mol. Microbiol*. 83: 599-611. PMID: PMC3262071.
101. Wei, Y., W-L. Ng, J. Cong, and B.L. Bassler 2012. Ligand and antagonist driven regulation of the *Vibrio cholerae* quorum-sensing receptor CqsS. *Mol. Microbiol*. 83: 1095-1108. PMID: PMC3310172.
102. Bassler, B.L. 2012 Microbes as Menaces, Mates, and Marvels. In *Daedalus*. Eds. M. Barenbaum and G. Meinwald. American Academy of Arts and Sciences Press. Cambridge, MA. Vol. 141. No 3. pp. 67-76.
103. Ng, W-L., L. Perez, J. Cong, M.F. Semmelhack, and B.L. Bassler. 2012. Broad spectrum pro-quorum-sensing molecules as inhibitors of virulence in vibrios. *PLoS Pathogens*. Jun;8(6):e1002767. Epub Jun 28. PMID: PMC3386246.
104. Rutherford, S.T. and B.L. Bassler. 2012. Bacterial quorum sensing: its role in virulence and possibilities for its control. In Cold Spring Harbor Perspectives. *Bacterial Pathogens*. Eds. S. Maloy and P. Cossart. Cold Spring Harbor Press.

105. Perez, L.J., W-L. Ng, P. Marano, K. Brook. B.L. Bassler, and M.F. Semmelhack. 2012. The role of the CAI-1 fatty acid tail in the *Vibrio cholerae* quorum-sensing response. *J. Med. Chem.* 55:9669-9681.
106. van Kessel, J.C., S.T. Rutherford, Y. Shao, A.F. Utria, and B.L. Bassler. 2013. The master regulators AphA and LuxR control the *Vibrio harveyi* quorum-sensing regulon: analysis of their individual and combined effects. *J. Bacteriol.*195:436-443.
107. Nadell, C.D., V. Bucci, K. Drescher, S.A. Levin, B.L. Bassler and J. B. Xavier. 2013. Cutting through the complexity of cell collectives. *Proc Royal Society.* 280 20122770; doi:10.1098/rspb.2012.2770.
108. Drescher, K., Y. Shen, B.L. Bassler, and H.A. Stone. 2013. Biofilm streamers catastrophically disrupt flow in environmental and medical systems. *Proc Natl Acad Sci, USA.* 110:4345-4350. PMID:PMC3600445.
109. Bassler, B.L., J. Vogel. 2013. Bacterial regulatory mechanisms: the gene and beyond. *Curr. Opin. Microbiol.* 16:109-111. Epub 23 April. ISSN 1369-5274, 10.1016/j.mib.2013.04.001.
110. Shao, Y\*, L. Feng\*, S.T. Rutherford, K. Papenfort, and B.L. Bassler. 2013. Stability, specificity, and functional determinants of the *Vibrio harveyi* quorum-sensing non-coding RNAs and analysis of their roles in mRNA target selection and regulation. *EMBO J.*, in press. (\* co-first authors).
111. van Kessel, J.C., L.E. Ulrich, I.B. Zhulin, and B.L. Bassler. 2013. Separating LuxR activator and repressor functions reveals the requirements for transcriptional control of quorum sensing. *mBio*, in press.

**Patents and Patent Applications:**

- 1-7. Compositions and Methods for Regulating Bacterial Pathogenesis (seven issued)
8. The Small RNA Chaperone Hfq and Multiple Small RNAs Control Quorum Sensing in *Vibrio harveyi* and *Vibrio cholerae* (issued)
- 9-13. Compounds and Methods for Regulating Bacterial Growth and Pathogenesis (three issued/two pending)
- 14-15. Crystals of LuxP and Complexes Thereof (one issued/one pending)
- 16-17. Inhibitors of Autoinducer Transporters (one issued/one pending)
18. An Expeditious Synthesis of DPD and Boron Binding Studies (issued)
19. Inhibiting Quorum Sensing Mediated Processes in Bacteria (issued)
20. Design and Synthesis of Inhibitors of the Quorum Sensing Autoinducer-2 Synthase LuxS with In Vivo Activity against Enteric Bacteria (issued)
21. Small Molecule Antagonists of Bacterial Quorum Sensing Receptors, Synthesized Acyl Homoserine Lactone Antagonists (pending)
22. Identification of the *Vibrio cholerae* Autoinducer and Use in Treating Bacterial Pathogenicity (pending)
23. Broad Spectrum Pro-Quorum-Sensing Molecules as Inhibitors of Virulence in Vibrios (pending)
24. Small Molecule Probes of the Receptor Binding Site in the *Vibrio Cholerae* CAI-1 Quorum Sensing Circuit (pending)

**Professional Society Memberships:**

The American Society for Microbiology  
American Association for Advancement of Science  
Society for Bioluminescence and Chemiluminescence  
American Society for Biochemistry and Molecular Biology  
American Society for Cell Biology  
International Union of Microbiological Societies  
New York Academy of Sciences  
American Chemical Society  
Biochemical Society

**Trainees:**

**Senior Thesis Research Supervision** (\*denotes under-represented group)

1996 Amy Gladfelter  
Andrew Keverline  
1997 Laura Snyder  
Veronica Valdivieso\*  
1998 Brendan Lilley  
1999 Kristin Egan  
2000 Gregory Deirmengian  
Taylor Armstrong  
2001 Julia Semmelheck  
2002 Alana Benjeman  
2003 Jennifer Rosenbluth  
2004 Rebecca Snyder  
Amy Tsou  
Ian Monk  
Julie Wu  
2005 Courtney Goodwin  
David Herman  
Julie Wu  
Andrew Beecham  
2006 Julie Wu  
2007 Ashley Wolf  
Meghan Ramsey\*  
Emily Witkin  
Colleen O'Loughlin  
Rebecca Harris  
2008 Joyce Huang  
Bixiao Zhao  
Colleen O'loughlin  
Katherine Marks\*  
2009 Reginald Salvant\*  
Yihe Dong  
Cameron Myhrvold  
Hendia Edmund\*  
Monica Banerjee  
2010 Cameron Myhrvold  
Allan Utria\*  
Monica Banerjee  
Suhyun Kim



2011 Cynthia Steinhardt (high school)  
 Cameron Myhrvold  
 Allan Utria\*  
 Monica Banerjee  
 Suhyun Kim  
 Diana Tafoya  
 Cynthia Steinhardt (high school)  
 Diana Tafoya\*  
 Sofia Quinodoz\*  
 Christine Mak  
 Hana Snow

2012 Sofia Quinodoz\*  
 Christine Mak  
 Hana Snow  
 Claudia Hilera\*  
 Katherine Angier (high school)  
 Gillian Koehl (high school)  
 Daria Koren

2013 Sofia Quinodoz\*  
 Christine Mak  
 Hana Snow  
 Daria Koren  
 Graham Read  
 David Wang  
 Paul Oh

***Predoctoral Students***

Sep, 1995-Oct, 1999 Jeremy Freeman (Research Scientist, ZymoGenetics)  
 Sep, 1995-Sep, 1996 Jason Faris, Masters (Johns Hopkins University Medical School)  
 Sep, 1997-Sep, 1998 Vanessa Fell, Masters  
 Sep, 1998-Jun, 2002 Melissa Miller (Associate Professor, Univ. of North Carolina, Chapel Hill)  
 Sep, 1999-Jun, 2003 Michiko Taga (Assistant Professor, Univ. of California, Berkeley)  
 Sep, 1999-Jun, 2004 Kenny Mok (Associate Specialist, Univ. of California, Berkeley)  
 Sep, 1999-Aug, 2004 Jennifer Henke (Principal Medical Writer, Novo Nordisk)  
 Sep, 2000-Jul, 2006 Derrick Lenz (Group Manager, Boston Scientific)  
 Sep, 2003-Feb 2009 Douglas Higgins (Postdoctoral Fellow, Lawrence Berkeley National Lab)  
 Sep, 2003-Jan, 2009 Kim Tu (Postdoctoral Fellow, Stowers Institute for Medical Research)  
 Sep, 2004-Nov, 2008 Sine Svenningsen (Associate Professor Univ. of Copenhagen, Denmark)  
 Sep, 2004-Jul, 2009 Audra Pompeani (Veterinary School, U. Penn)  
 Sep, 2004-Dec, 2009 Tao Long (Postdoctoral Fellow, Stanford University)  
 Sep, 2007-Aug, 2010 Shu-Wen Teng (Postdoctoral Fellow, Harvard University)  
 Sep, 2007-Aug, 2011 Carey Nadell (Postdoctoral Fellow, Princeton University)  
 Sep, 2007-Aug, 2011 Jessica Schaffer (Postdoctoral Fellow, New York University)  
 Sep, 2007-Mar, 2012 Yunzhou Wei (Postdoctoral Fellow, U. of Georgia)  
 Sep, 2008-present Zach Donnell  
 Sep, 2008-present Yi Shao  
 Sep, 2009-present Colleen O'Loughlin  
 Sep, 2009-present Xiaobo Ke  
 Sep, 2009-present Lihui Feng  
 Sep, 2011-present Amanda Hurley  
 Sep, 2012-present Alice Min (MD/PhD)

**Postdoctoral Fellows**

Sep, 1998-2002	Stephan Schauder (Research Scientist, Aventis Pharma)
Feb, 2000-2006	Karina Xavier (Assistant Professor, U. of Lisbon, Lisbon, Portugal)
Sep, 2001-2008	Brian Hammer (Assistant Professor, Georgia Tech. Univ., Atlanta, GA)
Mar, 2002-2008	Michael Federle (Assistant Professor, Univ. of Illinois at Chicago, Chicago, IL)
Aug, 2003-2008	Chris Waters (Assistant Professor, Michigan State Univ., East Lansing, MI)
Jun, 2005-2009	Lee Swem (Scientist, Genentech Corp. Palo Alto, CA)
Aug, 2006-2012	Wai-Leung Ng (Assistant Professor, Tufts University, Boston, MA)
Sep, 2007-2009	Michelle Boehm (Scientific Associate, Precept Medical Communications)
Sep, 2008-present	Stephen Rutherford
Jan, 2009-present	Julia van Kessel
Nov, 2009-2011	Devin Stauff (Assistant Professor, Grove City College)
Jul, 2010-present	Anisa Ismail
Feb, 2011-present	Knut Drescher
Feb, 2011-present	Kristin Werner
Sep, 2011-present	Carey Nadell
May, 2012-present	Kai Papenfort

**Pre- and Postdoctoral Fellowships Awarded to Trainees**

Jeremy Freeman	University Research Board Fellowship
Stephan Schauder	(DAAD) German Academic Exchange Service
Karina Xavier	Portugal Biological Sciences Fellowship
Melissa Miller	Princeton Porter Ogden Jacobus Fellowship
Derrick Lenz	HHMI Predoctoral Fellowship
Michael Federle	NIH Postdoctoral Fellowship, K99 Transition to Independence Grant
Brian Hammer	NIH Postdoctoral Fellowship
Chris Waters	NIH Postdoctoral Fellowship, K99 Transition to Independence Grant
Sine Svenningsen	Leschly Fellowship
Lee Swem	NIH Postdoctoral Fellowship
Wai-Leung Ng	NIH Postdoctoral Fellowship
Michelle Boehm	Damon Runyon Postdoctoral Fellowship
Carey Nadell	NSF Predoctoral Fellowship
Julia van Kessel	NIH Postdoctoral Fellowship
Stephen Rutherford	NIH Postdoctoral Fellowship
Zach Donnell	NSF Predoctoral Fellowship
Devin Stauff	NIH Postdoctoral Fellowship
Knut Drescher	Human Frontiers Postdoctoral Fellowship
Cameron Myhrvold	Hertz Predoctoral Fellowship
Anisa Ismail	NIH Postdoctoral Fellowship
Wai-Leung Ng	NIH Postdoctoral Fellowship, K00 Faculty Independence Grant
Kai Papenfort	Human Frontiers Postdoctoral Fellowship
Xiaobo Ke	Howard Hughes Medical Institute International Predoctoral Fellowship
Amanda Hurley	NSF Predoctoral Fellowship
Sofia Quinodoz	HHMI Graduate Fellowship, NSF Graduate Fellowship