

CURRICULUM VITAE

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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 Investigator, Howard Hughes Medical Institute, Princeton University
- 2008-present Director for Recruiting and Diversity in the Sciences, 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
- 2011-2014 Chair, Board of Governors, American Academy of Microbiology, ASM
- 2010-2016 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
- 2016-present Affiliate Member, Princeton Global Health Program

Honors and Awards:

- 1980 Regents of University of California, Davis, Scholarship
- 1980 Bank of America Science and Mathematics Scholarship
- 1984 Phi Beta Kappa, University of California, Davis
- 1984 Phi Kappa Phi, UCD
- 1984 Most Outstanding Undergraduate Independent Biochemistry Research
- 1984 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 Richard Lounsbery Award, National Academy of Sciences
- 2012 L'Oreal-UNESCO Women in Science Award, North America
- 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
- 2014 EMD Millipore Alice C. Evans Award, American Society for Microbiology
- 2014 Phi Beta Kappa Teaching Award
- 2015 Vallee Foundation Professorship
- 2015 Peter Wall Institute Visiting Scholar Award
- 2015 Honorary Degree, University of Guelph
- 2015 Ricketts Award, University of Chicago
- 2015 The Shaw Prize in Life Science and Medicine
- 2016 FASEB Excellence in Science Award
- 2016 Pearl Meister Greengard Prize

- 2016 NYU Institute for Mathematics and Advanced Supercomputing Award for Outstanding Achievements
- 2016 NJ Chamber of Commerce Women Leaders in Innovation Award
- 2016 Max Planck Research Award of the Alexander von Humboldt Foundation
- 2016 Elected to the National Academies of Medicine
- 2017 Elected ASCB Fellow
- 2018 The Dickson Prize in Medicine
- 2018 The Ernst Schering Prize

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 Member, Graduate Admissions Committee
- 2002-2004 Seminar Committee
- 2002 Chair, Faculty Search Committee
- 2003-2004 Chair, Scientific Direction, Recruiting, and Curriculum Committee
- 2003-2011 Executive Committee, Computational and Quantitative Biology Program
- 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
- 2008-2013 Director of Diversity for 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
- 2011-2014 Member, Graduate Admissions Committee
- 2011-present Chair, Strategic Planning Committee
- 2012 Chair, Search Committee, Host-Microbe Interactions
- 2013-present Chair, Executive Committee
- 2013 Chair, Search Committee, Lewis-Sigler Institute Director

Princeton University Committees and Service:

- 1996 Panelist, Women in Science and Education
- 1996-1999 Committee on Academic Standing
- 1997-2010 Undergraduate Advisor, Rockefeller College
- 1997-2014 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
- 2004-2008 Member, Committee for Direction and Recruitment in Chemistry
- 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
2008-2012 BioX Committee, Committee for Direction and Recruitment in Chemistry
2008-2014 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
2014 Class Leadership Speaker
2014-2015 Member, President's Strategic Planning Committee on the Future of Sponsored Research

2014 Keynote Speaker, Inaugural Nassau Hall Society Conference
2015-present Member, Animal Research Advisory Group
2015 Speaker, Future of Natural Sciences Retreat
2016 Speaker, Inaugural President's Advisory Council
2018 Member, Special Salary Allocation Review Committee
2018 Member, Search Committee, Vice President for Innovation

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 Promega Biotechnology Research Award Nomination Committee, American Academy of Microbiology

2003-2006 Promega Biotechnology Research Award Selection Committee, American Academy of Microbiology

2003-2006 Panelist, National Science Foundation Grant Review, Prokaryotic Biology Section
2003 Planning Committee, National Academies Keck Futures Initiative
2003-2010 Editor, *Molecular Microbiology*
2004 Organizer and Chair, Cell-Cell Signalling in Bacteria Conference, Banff, Canada
2004 Member, Search Committee for Assistant Director of Biological Sciences, National Science Foundation

2004-2005 International Organizing Committee, IUMS
2005 Committee, New Directions in the Study of Antimicrobial Therapeutics: New Classes of Antimicrobials, National Academy of Sciences

2005-2007 Chair, Promega Biotechnology Research Award Selection Committee, American Academy of Microbiology

2005-2007 Member, Gordon Research Council

2006 Selby Visiting Professor and Lecturer, Australia

2006 Co-Organizer, DARPA Conf., Cooperation Among Microorganisms, Park City, Utah

2006-2015 Chief Editor and Editorial Board, *Annual Review of Genetics*

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, Department of Microbiology, Dartmouth Medical School

2007 Panelist, Site Visit, National Cancer Institute

2007-2008 Committee Member, Forefronts of Science at the Interface of the Physical and Life Sciences, National Academy of Sciences

2007 Committee Member, Fostering Innovation, National Institutes of Health

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, Complexity Initiative, National Academies of Sciences

2008-2009 Committee on Election to Fellowship, American Academy of Microbiology

2008 Speaker and Panelist, Annual Biomedical Research Conference for Minority Students, ASM-NIGMS-Sponsored, Orlando, FL

2008-2009 Waksman Award Selection Committee, National Academy of Sciences

2008-2009 Review Committee, Board on Life Sciences, National Academy of Sciences

2008-2014 Associate Editor, *Cell*

2009 ASM Ambassador Speaker, Microbiology Society of Korea, JeJu Island, Korea

2009 Conference Organizer, Bacterial Regulatory Networks, UNIA, Baeza, Spain

2009 Chair and Organizer, Steering Committee, Synthetic Biology: Building on Nature's Inspiration, Keck Futures Initiatives-National Academies of Science, Irvine, CA

2009 Member, Review Committee, Biomedical Program, W. M. Keck Foundation

2009-2010 Election to Membership Panel, American Academy of Arts and Sciences

2009-2012 Chair and member, NIH Prokaryotic Cell and Molecular Biology Study Section

2009-2012 Member, Board on Life Sciences, National Academy of Sciences

2009-2019 Board of Editors, *mBio Journal*

2009-2012 Steering Committee, ASM General Meeting Planning Committee

2009-2011 Chair, Membership Strategic Planning, ASM Task Force

2010, 2013 Instructor EMBO/FEBS Host-Microbe Interactions Course, Spetses, Greece

2010 Steering Committee, American Academy of Microbiology Colloquium on Science Education

2010 Committee Member, Food, Energy, and Climate Bold Challenges Workshop, National Academy of Sciences

2010 Testimony, President's Commission for the Study of Bioethical Issues

2010-2014 Communications Ancillary Committee, American Society for Microbiology

2010-2011 Chair, Selman A. Waksman Award Committee, National Academy of Sciences

2011-2015 Chief Editor, *Annual Review of Genetics*

2011-2013 Chair, Biological Sciences Nominating Group, National Academy of Sciences

2011-2012 Member, Task Force, Communications Strategic Planning, American Society for Microbiology

2011-2012 Member STEM Advisory Task Force, Stuart Country Day School, Princeton, NJ

2011 Member, Steering Committee, Social Behavior of Microbial Communities Forum, Institute of Medicine

- 2011-2012 Member, Task Force, Enhancing Interactions with European Societies American Society for Microbiology
- 2012 Jury Member, L'Oreal USA Fellowship
- 2012 Speaker and Moderator, White House Bioeconomy Blueprint Roll Out
- 2012 Member, National Academy of Sciences Lounsbery Award Selection Committee
- 2013-2016 Selection Committee, Gruber Genetics Prize, American Society of Human Genetics
- 2014-present Member, Program Committee, American Philosophical Society
- 2015 Selection Committee, Vallee Foundation's Young Investigator Awards
- 2015 Selection Committee, AAAS Women in Chemical Sciences Investigator Awards
- 2015 Member, Review Panel, Moore Foundation Marine Microbiology Investigator Awards
- 2015 Member, Tenure and promotion committee, Rockefeller University
- 2016-2018 Member, American Academy of Arts and Sciences Committee on Studies and Publications
- 2016 Committee Member, Vision and Pathways: National Institutes of Health
- 2017 Reviewer, Canada Excellence Research Chair Competition
- 2017 Selection Committee, HHMI Hanna H. Gray Fellows Program
- 2018-2021 Jury, The Shaw Prize in Life Science and Medicine
- 2018 Member, Tenure and promotion committee, Rockefeller University

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, Washington DC
- 2001-2009 Organizer, PULSE (Princeton University Local Science Education) Princeton, NJ
- 2003-2007 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, 2012 ASCB- and HHMI-Sponsored iBio Seminars
- 2008 Advisor and Participant, Cells and the Universe Inside Us, NSF-Sponsored Liz Lerman Dance Exchange program, Baltimore Science Museum,
- 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 Inaugural Speaker, National Academies of Sciences Distinctive Voices, 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, Inaugural 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 HHMI Holiday Lectures on Science: Biodiversity and the Search for New Medicines
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, New York, 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
2010-present Holiday Lecture (yearly, on an original topic, for 600 5-12 year olds), Princeton, NJ
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 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, New York, NY
2013 Microbes at Night, Washington, DC
2013 Kern-Medina Seminars, Princeton, NJ
2013 BBC-Wellcome Trust: Exchanges at the Frontier
2014 Documentary, Animated Life: Seeing the Invisible, HHMI and the NY Times
2014 Claritas Distinguished Lecture, Susquehanna University, Selinsgrove, PA
2015 Kern-Medina Seminars, Princeton, NJ
2015 Wall Exchange Speaker, Vancouver, Canada
2015 Della Pietra Lecturer, Simons Center, Stony Brook, NY
2016 Smith Lecture, Davidson University, Davidson, NC
2016 Dialogues in Discovery Lecturer, Howard Hughes Medical Institute, Chevy Chase, MD
2016 Princeton Area Alumni Association, Princeton, NJ
2016 Kern-Medina Seminars, Princeton, NJ
2017 The Anatomy Lesson, Concertgebouw, Amsterdam, The Netherlands
2018 Keynote, Accelerated Learning Academy, W.E.B Du Bois Scholars Institute, Princeton, NJ

Scientific or Other Advisory Boards:

- 1999-2005 Scientific Advisory Board, Quorex Pharmaceuticals, San Diego, CA
2002-2007 Scientific Advisory Board, Cumbre, Dallas, TX

2003	Scientific Advisory Board, Damon Runyon Cancer Research Foundation
2005-2006	Scientific Advisory Board, AthenaBio, Philadelphia, PA
2006-2007	Scientific Advisory Board, Transition State Therapies, Boston, MA
2006-2009	Advisory Committee, Burroughs Wellcome Fund Interfaces in Science Program
2006-2012	Scientific Advisory Board, Max Planck Institute for Infection Biology
2006-2010	Scientific Advisory Board, BacTalk, Princeton, NJ
2007-2011	Scientific Advisory Board, Cubist Pharmaceuticals
2008-2010	Scientific Advisory Board, Pfizer Global Research
2008-2012	Scientific Advisory Board, Agile Scientific, Chapel Hill, NC
2008-2009	Advisor, Liz Lerman Dance Exchange, Takoma Park, MD
2008-present	Board of Directors, iBio Corporation
2009	Jury, Tribeca Film Institute Sloan Film Maker Fund, New York, NY
2009-2013	Scientific Advisory Board, Jane Coffin Childs Memorial Fund
2009-2013	Science Education Advisory Board, Howard Hughes Medical Institute
2009-2013	Scientific Advisory Board, Discovery Communications, Science Channel
2010-present	Advisory Council, Wagner Free Institute of Science
2010-present	Scientific Advisory Board, Whitehead Institute
2011-2018	Scientific Advisory Board, PEW Charitable Trusts
2011-2012	Scientific Advisory Committee, Instituto De Tecnologia Quimica Biologica, Lisbon, Portugal
2011	NSF-Sponsored, "It's About Discovery" Teacher Preparation Program, Lima, OH
2011-2016	Member, President's National Science Board
2012-present	Scientific Advisory Board, Gordon and Betty Moore Foundation
2012-2013	Exhibit Advisor, Marian Koshland Science Museum of the NAS
2012-present	Scientific Advisory Board, TED
2012-2016	Board of Directors, American Association for the Advancement of Science
2012-present	Scientific Advisory Board, L'Oreal Corporation
2014	Scientific Advisory Committee, University of Melbourne, Faculty of Medicine, Dentistry and Health Sciences
2014-2017	Graduate School Advisory Committee, Instituto De Tecnologia Quimica Biologica, Lisbon, Portugal
2014-2020	Board of Trustees, Sloan Foundation
2015-2016	Board of Directors, Sanofi Corporation
2016-2021	Board of Directors, Regeneron Pharmaceuticals
2016-present	Board of Directors, Rosalind Franklin Society
2017-present	Scientific Advisory Board, Achaogen
2017-present	Honorary External Member, Max Planck Institute
2017-present	Board of Directors, Life Sciences Research Foundation
2017-present	Broad Institute, Board of Scientific Counselors
2019-	Chair, Board of Scientific Advisors, Jane Coffin Childs Memorial Fund for Medical Research

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.M. Lee, B. Bassler, and S. Roseman. 1991. Chitin utilization by marine bacteria: A physiological function for bacterial adhesion to immobilized carbohydrates. *J Biol Chem.* Dec 25;266(36):24260-24267.
4. Bassler, B., P.J. Gibbons, C. Yu, and S. Roseman. 1991. Chitin utilization by marine bacteria: chemotaxis to chitin oligosaccharides by *Vibrio furnissii*. *J Biol Chem.* Dec 25;266(36):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.* Dec 25;266(36):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.* May 5;268(13):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.* Aug; 9(4):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.* May;12(3):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.* Jul;13(2):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.* Jun;179(12):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.* Jun 9;95(12):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.* Jan;31(2):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.* Jan;31(2):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.* Feb;181(3):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*. Feb 16;96(4):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*. Dec;2(6):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*. Jan;35(1):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*. May;36(4):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*. Jul;182(13):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 B.L. Bassler. 2001. Quorum sensing in bacteria. *Annu Rev Microbiol*. 55:165-199.
25. Schauder, S. and B.L. Bassler. 2001. The languages of bacteria. *Genes Dev*. Jun 15;15(12):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*. Jul;41(2):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*. Nov;42(3):777-793.
28. Winans, S.C. and B.L. Bassler. 2002. Mob psychology. *J Bacteriol*. Feb;184(4):873-883. PMID: PMC134813.
29. Chen, X., S. Schauder, N. Potier, A. Van Dorsselaer, I. Pelczer, B.L. Bassler, and F.M. Hughson. 2002. Structural identification of a bacterial quorum-sensing signal containing boron. *Nature*. Jan 31;415(6871):545-549.
30. Zhu, J., M.B. Miller, R.E. Vance, M. Dziejman, B.L. Bassler, and J.J. Mekalanos. 2002. Quorum-sensing regulators control virulence gene expression in *Vibrio cholerae*. *Proc Natl Acad Sci, USA*. Mar 5;99(5):3129-3134. Epub 2002 Feb 19. PMID: PMC122484.
31. Bassler, B.L. 2002. Small talk. Cell-to-cell communication in bacteria. *Cell*. May 17;109(4):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*. Aug 9;110(3):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*. Feb 17;22(4):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*. Apr;6(2):191-197.
36. Hammer, B.L. and B.L. Bassler. 2003. Quorum sensing controls biofilm formation in *Vibrio cholerae*. *Mol Microbiol*. Oct;50(1):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*. Nov;50 (4):1411-1427.
38. Federle, M.J. and B.L. Bassler. 2003. Interspecies communication in bacteria. *J Clin Invest*. Nov;112(9):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-ribosyl-homocysteine and activity assay as a LuxS substrate. *Bioorg Med Chem Lett*. Nov 17;13(22):3897-3900.
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 156. McCready, A.R., J.E. Paczkowski, B.R. Henke, and B.L. Bassler. 2018. The *Pseudomonas aeruginosa* LasR quorum-sensing receptor balances ligand selectivity and sensitivity. *Submitted*.

Patents and Patent Applications:

- 1-7. Compositions and Methods for Regulating Bacterial Pathogenesis
- 8-10. Compounds and Methods for Regulating Bacterial Growth and Pathogenesis
11. Crystals of LuxP and Complexes Thereof
12. Inhibitors of Autoinducer Transporters
13. Small RNAs and Bacterial Strains Involved in Quorum Sensing
14. AI-2 Compounds and Analogs Based on Salmonella typhimurium LsrB structure
15. Expeditious Synthesis of DPD
16. Identification of Bacterial Autoinducer and Use in Treating Bacterial Pathogenicity
- 17-18. Inhibition of Quorum Sensing Mediated Processes in Bacteria
19. Small Molecule Antagonists of Bacterial Quorum Sensing Receptors
20. Heterocycle Analogs of CAI-1 as Agonists of Quorum Sensing in *V. cholerae*
21. Broad Spectrum Pro-Quorum-Sensing Molecules as Inhibitors of Virulence in Vibrios
22. Small Molecules Active in Quorum Sensing for Inhibition of Biofilm Streamers
23. Inhibition of Virulence and Biofilm Formation in Pseudomonas
24. Systems and Methods to Detect Biofilm Streamer Growth and Their Uses
25. Molecules and Compositions that Inhibit Gram Negative Bacteria and Their Uses
26. Surfaces Comprising Attached Quorum Sensing Modulators
27. Novel Antimicrobial Compositions and Methods of Use

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
Genetics Society of America

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
Cynthia Steinhardt (high school)
2011 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
2014 Lynessa McGee*
Deirdre Ricaurte
Yentli Soto Albrecht
2015 Lynessa McGee*
Deirdre Ricaurte
Emily Wohl
Aseel Abdalla
Alfred Burton
Christine Ziegler*
2016 Deirdre Ricaurte
Emily Wohl
Alfred Burton
Michael Delgado
Katrina Munoz*
Lev Bershadsky (high school)
Fangzhu Zhao
2017 Daniela Coronado
Michael Delgado
Thomas Ferrante
Camille Sullivan
2018 Daniela Coronado*
Dominique Summerville*
Janie Kim

Predoctoral Students

Sep, 1995-Oct, 1999 Jeremy Freeman (Group Leader, Omeros Corporation)
 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 (Professor, Univ. of North Carolina, Chapel Hill)
 Sep, 1999-Jun, 2003 Michiko Taga (Associate 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 (Director Strategy & Operations, Novartis Oncology)
 Sep, 2003-Feb, 2009 Douglas Higgins (Scientist, Pivot Biology, Berkeley, CA)
 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 (Veterinarian, Stanford, CA)
 Sep, 2004-Dec, 2009 Tao Long (Assistant Professor, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, CA)
 Sep, 2007-Sep, 2010 Shu-Wen Teng (Assoc. Principal Scientist, Merck, Kenilworth, NJ)
 Sep, 2007-Aug, 2011 Carey Nadell (Research Scientist, Max Planck Institute, Marburg, Germany)
 Sep, 2007-Aug, 2011 Jessica Schaffer (Research Scientist, Dupont, Inc. San Francisco, CA)
 Sep, 2007-Mar, 2012 Yunzhou Wei (Research Scientist, Boehringer Ingelheim Animal Healthcare)
 Sep, 2008-Dec, 2013 Yi Shao (Junior Assoc., McKinsey & Co., Shanghai, China)
 Sep, 2008-Feb, 2015 Zach Donnell (Senior Analyst, Health Advances, San Francisco, CA)
 Sep, 2009-Feb, 2014 Colleen O'Loughlin (Postdoctoral Fellow, U. of California San Francisco)
 Sep, 2009-May, 2015 Xiaobo Ke (Postdoctoral Fellow, Harvard University & The Broad Institute)
 Sep, 2009-Dec, 2014 Lihui Feng (Postdoctoral Fellow, Washington U. in St. Louis)
 Sep, 2011-May, 2017 Amanda Hurley (Postdoctoral Fellow, U. Wisconsin, Madison, WI)
 Sep, 2012-May, 2016 Alice Min (MD/PhD) (MD Student, Rutgers Medical School)
 Sep, 2012-Jan, 2014 Donald Miller (Masters)
 Sep, 2012-Feb, 2017 Kevin Minyoung Kim (Postdoctoral Fellow, Yonsei University Medical School)
 Sep, 2014-Jan, 2015 Jenna Lobby (Masters)
 Sep, 2014-present Amelia McCready
 Sep, 2015-present Justin Silpe
 Sep, 2015-Jan, 2016 Robert Scheffler (Masters)
 Sep, 2015-present Michaela Eickhoff
 Sep, 2018-present Olivia Duddy

Postdoctoral Fellows

Sep, 1998-2002 Stephan Schauder (Research Scientist, Aventis Pharma)
 Feb, 2000-2006 Karina Xavier (Principal Investigator, Instituto Gulbenkian de Ciencia, Lisbon, Portugal)
 Sep, 2001-2008 Brian Hammer (Associate Professor, Georgia Tech., Atlanta, GA)
 May, 2002-2008 Michael Federle (Associate Professor, Univ. of Illinois at Chicago, Chicago, IL)
 Aug, 2003-2008 Chris Waters (Associate Professor, Michigan State Univ., East Lansing, MI)
 Jun, 2005-2009 Lee Swem (VP, Head of Research, Achaogen, San Francisco, CA)
 Aug, 2006-2012 Wai-Leung Ng (Assistant Professor, Tufts University, Boston, MA)
 Oct, 2007-2008 Michelle Boehm (Scientific Associate, Precept Medical Communications)
 Oct, 2008-2013 Stephen Rutherford (Research Scientist, Genentech Corp., San Francisco, CA)
 Jan, 2009-2013 Julia van Kessel (Assistant Professor, Univ. of Indiana)
 Nov, 2009-2011 Devin Stauff (Assistant Professor, Grove City College)
 Jul, 2010-2016 Anisa Ismail (Associate Scientific Director at Lockwood)
 Aug, 2010-2014 Laura Miller (Assistant Professor, San Jose State University)
 Feb, 2011-2014 Knut Drescher (Assistant Professor, Max Planck Institute, Marburg, Germany)

Feb, 2011-2014	Kristin Werner (Data Scientist, Opendoor)
Sep, 2011-2015	Carey Nadell (Assistant Professor, Dartmouth University)
Jun, 2012-2015	Kai Papenfort (Assistant Professor, Ludwig Maximilian U., Munich Germany)
Jan, 2013-2015	Christian Ventocilla (Medicinal Chemist, Hager Biosciences, Bethlehem, PA)
Sep, 2013-2014	Giancarlo Garcia-Schwarz (Software Engineer, Knewton, New York, NY)
Sep, 2014-present	Jon Paczkowski
Nov, 2014-present	Jing Yan
Dec, 2014-present	Sampriti Mukherjee
Mar, 2015-present	Nina Hoyland-Kroghsbo
Oct, 2015-present	Matthew Jemielita
Jan, 2017-present	Andrew Bridges
Apr, 2017-present	Ameya Mashruwala
Oct, 2017-present	Xiuliang Huang

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, L'Oreal Women in Science 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
Alice Min	NIH MD-Ph.D. Fellowship
Jon Paczkowski	Jane Coffins Child Postdoctoral Fellowship
Nina H-Kroghsbo	Denmark Ministry of Education Postdoctoral Fellowship
Justin Silpe	DOD Predoctoral Fellowship
Jing Yan	Burroughs Wellcome Fund's Career Awards at the Scientific Interface
Sampriti Mukherjee	Life Sciences Research Foundation Postdoctoral Fellowship
Andrew Bridges	Damon Runyon Postdoctoral Fellowship