

## Dr. Eric V. Stabb

Professor, Graduate Program Coordinator, and Associate Head  
Department of Microbiology, University of Georgia  
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### Education

- 1997 Ph.D. in Bacteriology  
University of Wisconsin-Madison
- 1990 B.S. with distinction in Molecular Biology and Philosophy  
University of Wisconsin-Madison

### Professional Experience

- 2012-present Professor, Department of Microbiology, University of Georgia (UGA). Research Focus: The bioluminescent marine bacterium *Vibrio fischeri*. Research topics include symbiotic interactions of *V. fischeri* with *Euprymna scolopes*, inter- and intraspecies signaling, regulation and role of bioluminescence, *V. fischeri* plasmids and genomics, and application of genetic techniques in this and other marine bacteria.
- 2007-2012 Associate Professor, Department of Microbiology, UGA
- 2001-2007 Assistant Professor, Department of Microbiology, UGA
- 1997-2001 Postdoctoral Fellow with Professor Edward G. Ruby, Kewalo Marine Laboratory, University of Hawai'i. Focus: *Vibrio fischeri-Euprymna scolopes* symbiotic interactions.
- 1991-1997 Graduate Research Assistant with Professor Jo Handelsman. Elucidated mechanisms of resistance to zwittermicin A in *Escherichia coli*, and described populations of genetically diverse zwittermicin A-producing *Bacillus* strains from soils and plant roots.
- 1988-1990 Undergraduate Researcher with Professor Timothy J. Donohue. Examined maturation of c-type cytochromes. Developed molecular genetic tools in *Rhodobacter sphaeroides*.

### Awards and Honors

- 2011 UGA Master Award for Excellence in Undergraduate Research Mentoring
- 2009 Finalist, UGA Graduate School Outstanding Mentoring Award
- 2008 Accepted UGA Embracing Diversity Award on behalf of Microbiology Department
- 2004 National Science Foundation (NSF) CAREER early investigator award
- 1999-2001 National Institutes of Health, Postdoctoral National Research Service Award
- 1996 Gamma Sigma Delta inductee
- 1991-1996 Howard Hughes Medical Institute Predoctoral Fellow
- 1991 NSF Predoctoral Fellowship (awarded but declined)
- 1990-1991 National Institutes of Health Molecular and Cellular Biology Training Grant Fellow
- 1989 Phi Beta Kappa inductee
- 1988 NSF Research Experience For Undergraduates Award

### Significant Elected Positions

- Chair Elect, American Society for Microbiology Division I (General Microbiology), 2012
- Co-Chair, 5<sup>th</sup> ASM Conference on Cell-Cell Communication in Bacteria (pending meeting approval)
- UGA University Council Representative – Franklin College of Arts and Sciences / Life Sciences
- President (2009-2010) and Senator (2007-2009), UGA College of Arts and Sciences Faculty Senate

### Memberships

- American Society for Microbiology
- International Symbiosis Society
- American Association for the Advancement of Science

**Summary of Extramural Support:****Current Extramural Support:**

- PI, NSF (IOS), *Sensing more than a quorum: The role of pheromones in the light-organ symbiont Vibrio fischeri*, 2011-2014, \$503,257 total costs; 2011-2014 [IOS-1121106].
- Co-PI, NSF, *Research Experience for Undergraduates Site Program: Research in Prokaryotic biology*, 2011-2014, \$313,482 total costs (competitive renewal: Tim Hoover now lead PI)

**Previous Extramural Support:**

- Co-PI, NSF, *Collaborative Research: Use of genome-enabled tools to understand symbiosis*, 2009-2012, Budget for Stabb lab \$57,114 total costs [IOS-0841480]
- Co-PI, NSF, *Collaborative Research: Iron limitation, carbon metabolism and siderophore production in marine bacteria – a systems biology approach*, 2009-2012, Budget for Stabb lab \$134,382 total costs [OCE-0929081]
- PI, NSF, *Research Experience for Undergraduates Site Program: Research in Prokaryotic biology*, 2008-2011, \$278,148 total costs [DBI-0755182]
- PI, NSF, *CAREER: Symbiotic Role of Bacterial Bioluminescence*, 2004-2009, \$567,000 total costs (including supplements) [MCB-0347317]
- Co-investigator, National Institutes of Health, *Vibrio fischeri as a model of bacterial colonization*, R01 AI50661, (PI: Margaret McFall-Ngai, University of Wisconsin), 2001-2006 and 2007-2009, Budget for Stabb lab \$396,950 total costs [R01 AI 50661]
- Collaborator, NSF, *Mobilome Genomics: Large Plasmids of Diverse Prokaryotic Groups* (PI Anne Summers) 2007-2008, Budget for E. Stabb \$14,500 total costs [EF-06-26940]
- PI, Army Research Office, *Quorum-sensing inhibitors present in complex microbiological media*. 2006-2007, \$50,000 total costs [49549-LS-II]
- Collaborating researcher, NSF, *Hypercapnic hypoxia impacts shrimp immune defenses against bacterial pathogens* (Co-PI's Karen Burnett and Louis Burnett, College of Charleston). Budget for E. Stabb, 2002-2004, \$33,310 total costs [IBN-0212921]

**Competitive External Support for DNA Sequencing Projects:**

- PI, Department of Energy/Joint Genome Institute, Community Sequencing Program; *Identifying second-site suppressor mutations in Vibrio fischeri that restore aerobic growth in a mutant lacking the TCA cycle enzyme aconitase (AcnB)*, funded resequencing of wild-type *V. fischeri* genome as well as six mutant strains. 2009-2010. Value ~\$25,000 [CSP-65]
- Co-PI (with Edward Ruby), Gordon and Betty Moore Foundation; *Niche-specific characteristics revealed by genome sequencing of strains in the Vibrio fischeri/Vibrio logei group*, funded 8x sequencing coverage of one *V. fischeri* strain's genome. 2005-2006. Value ~\$100,000

**Fellowship/Award Support for Advisees and Postdoctoral Mentees:**

- Sponsor/PI, NSF; Dr. Zomary Flores-Cruz was awarded a Postdoctoral Research Fellowship, 2010-2013, \$189,000 total costs [DBI-0905813]
- Mentor/PI; Ms. Alecia Septer was awarded a Pre-doctoral National Defense Science and Engineering Graduate Fellowship through the Army Research Office, 2008-2011, (full stipend, tuition, and benefits)
- Advisor; Ms. Alecia Septer was awarded a competitive ARCS foundation Fellowship (\$7,500 per year)
- Advisor; Ms. Deanna Colton, Georgia Oceans and Health Initiative Fellowship, \$21,000 stipend, \$8000 supplies and travel support, 2010-2011
- Sponsor/PI, NSF; Dr. Anne Dunn was awarded a Postdoctoral Fellowship in Microbial Biology, 2003-2005, \$100,000 total costs [DBI-0301367]

## Publications

### Journals:

- Septer, A.N., N.L. Lyell, and **E.V. Stabb**. 2013. The iron-dependent regulator Fur controls pheromone-signaling systems and luminescence in the squid symbiont *Vibrio fischeri* ES114. *Applied and Environmental Microbiology* In Press
- Septer, A.N. and **E.V. Stabb**. 2012. Coordination of the Arc regulatory system and pheromone-mediated positive feedback in controlling the *Vibrio fischeri lux* operon. *PLoS One* 7:e49590.
- Dailey, H.A., A.N. Septer, L. Daugherty, D. Thames, S. Gerdes, **E.V. Stabb**, A.K. Dunn, J.D. Phillips, and T.A. Dailey. 2011. The *Escherichia coli* protein YfeX functions as a peroxidase and is not a heme dechelataase. *MBio* 2:e00248-11
- Septer, A.N., Y. Wang, E.G. Ruby, **E.V. Stabb**, and A.K. Dunn. 2011. The heme-uptake gene cluster in *Vibrio fischeri* is regulated by Fur and contributes to symbiotic colonization. *Environmental Microbiology* 13:2855-2864
- Phillips, N.J., D.M. Adin, **E.V. Stabb**, M.J. McFall-Ngai, M.A. Apicella, and B.W. Gibson. 2011. The lipid A from *Vibrio fischeri* LPS: A unique structure bearing a phosphoglycerol moiety. *The Journal of Biological Chemistry* 286:21203-21219
- Bose, J.L., M.S. Wollenberg, D.M. Colton, M.J. Mandel, A.N. Septer, A.K. Dunn, and **E.V. Stabb**. 2011. Rapid evolution of the *luxR-luxI* intergenic region has contributed to the diverse bioluminescence output of *Vibrio fischeri* strains isolated from different environments. *Applied and Environmental Microbiology* 77:2445-2457
- Altura, M.A., **E. Stabb**, W. Goldman, M. Apicella, and M.J. McFall-Ngai. 2011. Attenuation of host NO production by MAMPs potentiates development of the host in the squid-vibrio symbiosis. *Cellular Microbiology* 13:527-537
- Lyell, N.L., A.K. Dunn, J.L. Bose, and **E.V. Stabb**. 2010. Bright mutants of *Vibrio fischeri* ES114 reveal conditions and regulators that control bioluminescence and expression of the *lux* operon. *Journal of Bacteriology* 192:5103-5114
- Dunn, A.K., A.K. Karr, Y. Wang, A.R. Batton, E.G. Ruby, **E.V. Stabb**. 2010. The alternative oxidase (AOX) gene in *Vibrio fischeri* is controlled by NsrR and upregulated in response to nitric oxide stress. *Molecular Microbiology* 77:44-55 (Featured in Commentary: Spiro, S., 2010 *Mol Microbiol.* 77:6-10)
- Septer, A.N., J.L. Bose, A.K. Dunn, and **E.V. Stabb**. 2010. FNR-mediated regulation of bioluminescence and anaerobic respiration in the light-organ symbiont *Vibrio fischeri*. *FEMS Microbiology Letters* 306: 72-81
- Mandel, M.J., M.S. Wollenberg, **E.V. Stabb**, K.L. Visick, and E.G. Ruby. 2009. A single regulatory gene is sufficient to alter bacterial host range. *Nature* 458: 215-218
- Troll, J.V., D.M. Adin, A.M. Wier, N. Paquette, N. Silverman, W.E. Goldman, F.J. Stadermann, **E.V. Stabb**, and M.J. McFall-Ngai. 2009. Peptidoglycan induces loss of a nuclear peptidoglycan recognition protein during host tissue development in a beneficial animal-bacterial symbiosis. *Cellular Microbiology* 11:1114-1127
- Adin, D.M., J.T. Engle, W.E. Goldman, M.J. McFall-Ngai, and **E.V. Stabb**. 2009. Mutations in *ampG* and lytic transglycosylase genes affect the net release of peptidoglycan monomers from *Vibrio fischeri*. *Journal of Bacteriology* 191:2012-2022 (Featured in Commentary: Nyholm S.V., 2009 *J. Bacteriol.* 191:1997-1999)
- Lyell, N.L., A.K. Dunn, J.L. Bose, S.L. Vescovi, and **E.V. Stabb**. 2008. Effective mutagenesis of *Vibrio fischeri* using hyperactive mini-Tn5 derivatives. *Applied and Environmental Microbiology* 74:7059-7063
- Dunn, A.K. and **E.V. Stabb**. 2008. Genetic analysis of trimethylamine *N*-oxide reductases in the light-organ symbiont *Vibrio fischeri* ES114. *Journal of Bacteriology* 190:5814-5823
- Adin, D.M., K.L. Visick, and **E.V. Stabb**. 2008. Identification of a cellobiose utilization gene cluster with cryptic  $\beta$ -galactosidase activity in *Vibrio fischeri*. *Applied and Environmental Microbiology* 74:4059-4069.

- Bose, J.L., C.S. Rosenberg, and **E.V. Stabb**. 2008. Effects of *luxCDABEG* induction in *Vibrio fischeri*: Enhancement of symbiotic colonization and conditional attenuation of growth in culture. *Archives of Microbiology* 190:169-183
- Mandel, M.J., **E.V. Stabb**, and E.G. Ruby. 2008. Comparative genomics-based investigation of resequencing targets in *Vibrio fischeri*: focus on point miscalls and artefactual expansions. *BMC Genomics* 9:138
- Adin, D.M., N.J. Phillips, B.W. Gibson, M.A. Apicella, E.G. Ruby, M.J. McFall-Ngai, D.B. Hall, and **E.V. Stabb**. 2008. Characterization of *htrB* and *msbB* mutants of the light organ symbiont *Vibrio fischeri*. *Applied and Environmental Microbiology* 74:633-644
- Dunn, A.K. and **E.V. Stabb**. 2008. The twin arginine translocation system contributes to symbiotic colonization of *Euprymna scolopes* by *Vibrio fischeri*. *FEMS Microbiology Letters* 279:251-258.
- Bose, J.L., U. Kim, W. Bartkowski, R.P. Gunsalus, A.M. Overley, N.L. Lyell, K.L. Visick, and **E.V. Stabb**. 2007. Bioluminescence in *Vibrio fischeri* is controlled by the redox-responsive regulator ArcA. *Molecular Microbiology* 65:538-553
- Walker, E.L., J.L. Bose, and **E.V. Stabb**. 2006. Photolyase confers resistance to UV light but does not contribute to the symbiotic benefit of bioluminescence in *Vibrio fischeri* ES114. *Applied and Environmental Microbiology* 72:6600-6606
- Dunn, A.K., D.S. Millikan, D.M. Adin, J.L. Bose, and **E.V. Stabb**. 2006. New *rfp*- and pES213-derived tools for analyzing symbiotic *Vibrio fischeri* reveal patterns of infection and *lux* expression *in situ*. *Applied and Environmental Microbiology* 72:802-810
- Sawabe, T., Y. Fukui, and **E.V. Stabb**. 2006. Simple conjugation and outgrowth procedures for tagging vibrios with GFP, and factors affecting the stable expression of the *gfp* tag. *Letters in Applied Microbiology* 43:514-522
- Dunn, A.K. and **E.V. Stabb**. 2005. Culture-independent characterization of the microbiota of the antlion *Myrmeleon mobilis* (Neuroptera: Myrmeleontidae). *Applied and Environmental Microbiology* 71:8784-8794
- Dunn, A.K., M.O. Martin, and **E.V. Stabb**. 2005. Characterization of pES213, a small mobilizable plasmid from *Vibrio fischeri*. *Plasmid* 54:114-134
- Ruby, E.G., M. Urbanowski, J. Campbell, A. Dunn, M. Faini, R. Gunsalus, P. Lostroh, C. Lupp, J. McCann, D. Millikan, A. Schaefer, **E. Stabb**, A. Stevens, K. Visick, C. Whistler, and E.P. Greenberg. 2005. Complete genome sequence of *Vibrio fischeri*: a symbiotic bacterium with pathogenic congeners. *Proceedings of the National Academy of Sciences, USA* 102:3004-3009
- Burgents, J.E., L.E. Burnett, **E.V. Stabb**, and K.G. Burnett. 2005. Localization and bacteriostasis of *Vibrio* introduced into the Pacific white shrimp, *Litopenaeus vannamei*. *Developmental and Comparative Immunology* 29:681-691
- Koropatnick, T.A., J.T. Engle, M.A. Apicella, **E.V. Stabb**, W.E. Goldman, and M.J. McFall-Ngai. 2004. Microbial factor-mediated development in a host-bacterial mutualism. *Science* 306: 1186-1188
- Stabb, E.V.**, M.S. Butler, and D.M. Adin. 2004. Correlation between osmolarity and luminescence of symbiotic *Vibrio fischeri* strain ES114. *Journal of Bacteriology* 186:2906-2908
- McCann J., **E.V. Stabb**, D.S. Millikan, and E.G. Ruby. 2003. Population dynamics of *Vibrio fischeri* during infection of *Euprymna scolopes*. *Applied and Environmental Microbiology* 69:5928-5934
- Stabb, E.V.** and E.G. Ruby. 2003. Contribution of *pilA* to competitive colonization of *Euprymna scolopes* by *Vibrio fischeri*. *Applied and Environmental Microbiology* 69:820-826
- Stabb, E.V.** and E.G. Ruby. 2002. RP4-based plasmids for conjugation between *Escherichia coli* and members of the Vibrionaceae. *Methods in Enzymology* 358:413-426
- Stabb, E.V.**, K.A. Reich, and E.G. Ruby. 2001. *Vibrio fischeri* genes *hvnA* and *hvnB* encode secreted NAD<sup>+</sup> glycohydrolases. *Journal of Bacteriology* 183:309-317

- Nyholm, S.V., **E.V. Stabb**, E.G. Ruby, and M.J. McFall-Ngai. 2000. Establishment of an animal-bacterial association: recruiting symbiotic vibrios from the environment. *Proceedings of the National Academy of Sciences, USA* 97:10231-10235
- Stabb, E.V.** and J. Handelsman. 1998. Genetic analysis of zwittermicin A resistance in *Escherichia coli*: Effects on membrane potential and RNA polymerase. *Molecular Microbiology* 27:311-322
- Silo-Suh, L., **E.V. Stabb**, S.J. Raffel, and J. Handelsman. 1998. Target range of zwittermicin A, an aminopolyol antibiotic from *Bacillus cereus*. *Current Microbiology* 37:6-11
- Raffel, S.J., **E.V. Stabb**, J.L. Milner, and J. Handelsman. 1996. Genotypic and phenotypic analysis of zwittermicin A-producing strains of *Bacillus cereus*. *Microbiology* 142:3425-3436
- Stabb, E.V.**, L.M. Jacobson, and J. Handelsman. 1994. Zwittermicin A-producing strains of *Bacillus cereus* from diverse soils. *Applied and Environmental Microbiology* 60:4404-4412
- Stabb, E.V.**, L.M. Jacobson, M. Janowiak, and J. Handelsman. 1994. Biological control with zwittermicin A-producing strains of *Bacillus cereus* from diverse soils. *Molecular Ecology* 3: 608-609
- Brandner, J.P., **E.V. Stabb**, R. Temme, and T.J. Donohue. 1991. Regions of *Rhodobacter sphaeroides* cytochrome  $c_2$  required for export, heme attachment and function. *Journal of Bacteriology* 173:3958-3964

#### Reviews and Book Sections:

- Stabb, E.V.** and K.L. Visick. 2013. *Vibrio fischeri*: A Bioluminescent light-organ symbiont of the bobtail squid *Euprymna scolopes*. In E. Rosenberg, E.F. DeLong, E. Stackebrandt, S. Lory, and F. Thompson (eds.), *The Prokaryotes 4<sup>th</sup> edition*. In Press.
- Stabb, E.V.** and D.S. Millikan. 2009. Is the *Vibrio fischeri*-*Euprymna scolopes* symbiosis a defensive mutualism? In J.F. White, Jr. and M.S. Torres (eds.), *Defensive Mutualism in Microbial Symbiosis*. Taylor and Francis, Boca Raton, pp. 85-98
- Stabb, E.V.**, A. Schaefer, J.L. Bose, and E.G. Ruby. 2008. Quorum Signaling and Symbiosis in the Marine Luminous Bacterium *Vibrio fischeri*, In S.C. Winans and B.L. Bassler (eds.), *Chemical Communication Among Microbes*. ASM Press, Washington, D.C., pp. 233-250
- Dunn, A.K. and **E.V. Stabb**. 2007. Beyond quorum sensing: the complexities of prokaryotic parliamentary procedures. *Analytical and Bioanalytical Chemistry*. 387:391-398
- Cloud-Hansen, K.A., S.B. Peterson, **E.V. Stabb**, W.E. Goldman, M.J. McFall-Ngai, and J. Handelsman. 2006. Breaching the Great Wall: Peptidoglycan and Microbial Interactions. *Nature Reviews Microbiology* 4:710-716
- Stabb, E.V.** 2006. The *Vibrio fischeri*-*Euprymna scolopes* light organ symbiosis. In F. L. Thompson, B. Austin and J. Swings (eds.), *The biology of Vibrios*. ASM Press, Washington D.C., pp. 204-218
- Stabb, E.V.** 2005. Shedding light on the bioluminescence "paradox". *ASM News* 71:223-229
- Stabb, E.V.**, K.L. Visick, D.S. Millikan, A.A. Corcoran, L. Gilson, S.V. Nyholm, M. McFall-Ngai and E.G. Ruby. 2001. The *Vibrio fischeri*-*Euprymna scolopes* symbiosis: A model marine animal-bacteria interaction. In N.K. Saxena (ed.), *Recent Advances in Marine Science and Technology*, 2000. PACON International, Honolulu, Hawai'i. pp. 269-277
- Handelsman, J. and **E.V. Stabb**. 1996. Biocontrol of soilborne plant pathogens. *Plant Cell* 8:1855-1869
- Stohl, E.A., J. Handelsman, and **E.V. Stabb**. 1996. Zwittermicin A and biological control of oomycete pathogens. In G. Stacey, B. Mullen and P. Gresshoff (eds.), *Advances in molecular genetics of plant-microbe interactions*, Vol. 4. Kluwer Academic Publishers, Dordrecht, The Netherlands. pp. 475-479

#### Patents:

- Handelsman, J., S.J. Stewart, and **E.V. Stabb**. Issue date Mar. 7, 2000. *Bacillus cereus* strain W35. U.S. Patent Number 6,033,659.
- Handelsman, J., S.J. Stewart, and **E.V. Stabb**. Issue date Feb. 29, 2000. *Bacillus cereus* strain Z8. U.S. Patent Number 6,030,610.
- Handelsman, J., S.J. Stewart, and **E.V. Stabb**. Issue date Dec. 7, 1999 Disease suppression by novel *Bacillus cereus* strain SOY130. U.S. Patent Number 5,998,196.

- Handelsman, J., L.M. Jacobson, and **E.V. Stabb**. Issue date April 7, 1998. *Bacillus cereus* strain DGA34. U.S. Patent Number 5,736,382.
- Handelsman, J., **E.V. Stabb**, L.M. Jacobson, R.M. Goodman, D.W. Johnson, and K.P. Smith. Issue date Dec. 23, 1997. *Bacillus cereus* strain MS1-9. U.S. Patent Number 5,700,462.
- Handelsman, J., J.L. Milner, E.A. Stohl, S.J. Stewart, and **E. Stabb**. Issue date April 8, 1997. Zwittermicin resistance gene and biocontrol bacteria with the gene. U.S. Patent Number 5,618,692.
- Handelsman, J., L.M. Jacobson, D.W. Johnson, K.P. Smith, R.M. Goodman, and **E.V. Stabb**. Issue date Sept. 3, 1996. *Bacillus cereus* strain AS4-12. U.S. Patent Number 5,552,138.
- Handelsman, J., L. Halverson, **E.V. Stabb**, B. Lethbridge, and L. Silo. Issue date Aug. 6, 1996. Method of identifying *Bacillus cereus* having biocontrol activity. U.S. Patent Number 5,543,301.

**Invited Workshop Speaker/Participant (host/organizer):** \*\* -highlights national meeting

- \*\* Biology Research Experience for Undergraduates Workshop, NSF, Arlington VA, Mar 2010
- \*\* NSF/AAAS Workshop on Transforming Undergraduate Biology Education: Mobilizing the Community for Change, Washington DC, July 2009
- \*\* NSF Workshop on Molecular Communication/Biological Communication Technology, Arlington VA, Feb 2008 (Dr. Michael Simpson)
- \*\* Marine Eco-Genomics Workshop, NSF/Centers Development Initiative and Medical University of South Carolina, (Rand Haley [CDI] and Dr. Eric Lacy [MUSC]), Charleston, Feb 2006

**Invited Seminars (host):** \*\* -highlights national meeting

- Emory University, Population Biology, Ecology, and Evolution, 10/14/2011 (Dr. Nicole Gerardo)
- Georgia Institute of Technology, Dept. of Biology, 10/6/2011 (Dr. Brian Hammer)
- Georgia State University, Dept. of Biology, 9/30/2011 (Dr. Nicole Lopanik)
- Georgia State University, Biology Honor Society (tri-Beta), 10/28/2010 (Ms. Vonee Hemans)
- \*\* eHormone 2010: Environmental Signaling: Exploring Multiple Dimensions, Tulane Univ. New Orleans, 10/21/2010
- Cal Polytechnic State Univ., San Luis Obispo, Dept. of Biology, 10/23/2009 (Dr. Pat Fidopiastis)
- \*\* General Meeting, American Society for Microbiology, Philadelphia, 5/19/2009
- \*\* ASM Beneficial Microbes Conference, San Diego, 10/15/2008
- University of Wisconsin-Madison, Dept. of Bacteriology, 4/3/2008 (Dr. Katrina Forest)
- Southeastern Branch American Society for Microbiology Meeting, Auburn University, 11/9/2007
- University of Florida, Dept. of Microbiology and Cell Science, 10/22/2007 (Dr. Jamie Foster)
- Oak Ridge National Laboratory, Center for Nanophase Materials Sciences, 8/20/2007 (Dr. Michael Allen)
- Valdosta State Univ., Science Seminar Series, 1/18/2007 (Dr. Archana Bhasin, Biology Dept)
- University of Tennessee, Dept. of Microbiology, 11/13/2006 (Drs Erik Zinser and Alison Buchan)
- University of Alabama-Birmingham, Dept of Biology, 11/3/2006 (Dr. Robert Thacker)
- University of Nevada-Las Vegas, Dept. of Biological Sci., 10/14/2005 (Dr. Eduardo Robleto)
- Loyola University Chicago, Dept. of Microbiology and Immunol., 9/22/2005 (Dr. Karen Visick)
- Georgia State University, Dept. of Biology, 1/28/2005 (Dr. Eric Gilbert)
- \*\* General Meeting, American Society for Microbiology, New Orleans, 5/26/2004
- Xavier University of Louisiana, Dept. of Biology, 1/28/2004 (Dr. Roldan Valverde)
- Auburn University, Dept. of Biological Sciences, 1/17/2003 (Dr. Laura Suh)
- Grice Marine Laboratories and College of Charleston, 10/4/2002 (Dr. Karen Burnett)
- Georgia Institute of Technology, Dept. of Biology, 8/30/2002 (Dr. Patty Sobelki)

**Professional Service**

- Editorial board, *Applied and Environmental Microbiology* (2005-present)
- Grant Review Panelist, National Institutes of Health SCORE program, 2008 and 2009
- Grant Review Panelist, National Science Foundation, 2006 and 2009
- Contributing Member, Faculty of 1000, Cellular Microbiology and Pathogenesis, 2005-2010
- *Ad hoc* reviewer for twenty-nine journals (2001-2012)
- *Ad hoc* reviewer for eleven NSF programs (2004-2011)
- *Ad hoc* reviewer promotion/tenure applications: Five research Universities

- *Ad hoc* reviewer for international funding agencies: Research Foundation-Flanders 2011, INSERM (French Institute for Medical Research) 2009, the Singapore National Medical Research Council 2006, and the US-Israel Binational Science Foundation 2005

### **Teaching:**

- Course designer & Instructor, UGA, Microbiol. 4500/6500 Bacterial Symbioses, 2003-2012; (This course consistently receives outstanding student-generated evaluations)
- Co-Instructor, UGA, Microbiol. 4090/6090, Prokaryotic Biology (6-7 lectures), 2011-2012
- Co-Instructor, UGA, Biol. 1108, Principles of Biology II (8 lectures), 2010
- Course designer & Instructor, UGA, Microbiol. 8700-Special Topics: Bacterial Symbioses, 2002
- Guest lecturer, seven additional courses, University of Georgia system, 2001-present
- Guest lecturer, U. Hawai'i, Prokaryotic Genetics (1997) and Microbial Physiology (1999)
- Tutor, U. Wisconsin Athletic Department, Prokaryotic Microbiology, 1993
- Teaching assistant, U. Wisc., Prokaryotic Micro. Lab and Physiology of Microorganisms Lab, 1992

### **Other Contributions to Mentoring and Education:**

- Advisor for eight graduate students and two postdoctoral researchers since 2001 (see below)
- Directed research of ten additional rotating grad students and 27 undergrads since 2001
- Undergrad and grad students awarded competitive travel funds & research or presentation awards
- PI, co-coordinator, Summer REU site program 2008-2011
- Participating faculty, summer REU program, including instruction on poster prep, 2002-2011
- Initiated and taught "Entering Mentoring" program for graduate students and postdocs, 2008-2011
- Served on 36 graduate student committees 2001-present
- Graduate Affairs Committee, UGA Microbiology Dept., 2002-2004, 2006-present
- Graduate Student Recruitment Committee, UGA Microbiology Dept. 2002-2005

### **Other Activities:**

- Drafted and coordinated revisions of Microbiology Department vision statement, 2010
- Judge, best poster competition, UGA Grad Students and Postdocs in Science symposium, 2009
- UGA Faculty Research Grant review committee, 2007-2009 (wrote guide for proposers)
- Presented intramural departmental seminars to: Avian Medicine (2006), Cellular Biology (2004), Marine Sciences (2003), Genetics (2003), Medical Microbiology and Parasitology (2003)
- Co-organized 16<sup>th</sup> annual *Vibrio fischeri-Euprymna scolopes* Symbiosis Symposium, Hawai'i Institute of Marine Biology, Kaneohe Hawai'i March 2004
- Initiated and co-organized student-selected speaker seminar series, U. Wisc., 1996
- Chair of Plant Pathology Departmental Safety Committee, U. Wisc., 1994-1996
- Attended thirty-eight regional, national, and international meetings 1989-2011. Topics include: general microbiology, cell-cell signaling, microbial ecology, biotechnology, marine ecogenomics, microbial toxins and pathogenesis, host-microbe interactions, biomedical research, and undergraduate education.