## **CURRICULUM VITAE**

#### Eric V. Stabb

Professor and Associate Head
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(departmental website; Google Scholar link)

# **Education**

1997 Ph.D. in Bacteriology
University of Wisconsin-Madison

1990 B.S. with distinction; majors 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 <i>Vibrio fischeri</i> . Research topics include symbiotic interactions between <i>V. fischeri</i> and the Hawaiian bobtail squid, <i>Euprymna scolopes</i> , inter- and intraspecies signaling, regulation of bioluminescence, and application of genetic techniques in <i>V. fischeri</i> and other marine bacteria.
2014-2015	Visiting Professor, Department of Molecular, Cellular, and Developmental Biology, Yale University. Taught one course and mentored personnel in Professor Jo Handelsman's lab during her service at the White House Office of Science and Technology Policy.
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: <i>V. fischeri-Euprymna scolopes</i> symbiotic interactions.
1991-1997	Graduate Research Assistant with Professor Jo Handelsman. Elucidated mechanisms of resistance to zwittermicin A in <i>Escherichia coli</i> , and discovered populations of genetically diverse zwittermicin A-producing <i>Bacillus</i> strains in soils and on plant roots.
1988-1990	Undergraduate Researcher with Professor Timothy J. Donohue. Examined maturation of c-type cytochromes. Developed molecular genetic tools in <i>Rhodobacter sphaeroides</i> .

## **Other Positions**

- Associate Head, UGA Microbiology Department (2012-2014, 2015-present)
- Academic Program Coordinator, UGA Microbiology Department (2017-present)
- Editor, Applied and Environmental Microbiology (2016-present)
- Co-Chair, 5<sup>th</sup> and 6<sup>th</sup> ASM Conference on Cell-Cell Communication in Bacteria (2011-2017)
- Chair (2016) and member (2015, 2017) UGA Life Sciences Promotion & Tenure Review Committee
- Microbiology Graduate Program Coordinator (2011-2014)
- Councilor (2014), Chair (2013), and Chair elect (2012), ASM General Microbiology Division (Div I)
- President (2009-2010) and Senator (2007-2009), UGA College of Arts and Sciences Faculty Senate

# **Memberships**

- American Society for Microbiology (ASM)
- International Symbiosis Society
- · American Association for the Advancement of Science

## **Awards and Honors**

- 2015 (also 2006, 2012, 2013) Acknowledged by UGA alumni in "Thank a Teacher" Program
- 2014 Margaret Green Award for outstanding teaching of microbiology, Southeast Branch ASM
- 2011 UGA Master Award for Excellence in Undergraduate Research Mentoring
- 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 (honor society for agriculture) 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
  - 1990 GTE NCAA Academic All American (3<sup>rd</sup> team)
  - 1989 Phi Beta Kappa inductee
  - 1988 NSF Research Experience For Undergraduates Award

#### **Trainees**

# Former Graduate students and Postdoctoral trainees

- Richard M. (Mark) Jones; Ph.D. 2017. Upon graduation, accepted postdoc with Dr. David Sack, Johns Hopkins U.
- J. Henry (Hank) Kimbrough; Ph.D. 2016. Upon graduation, accepted postdoc with Dr. Josie Chandler, U. of Kansas. Now postdoc with Dr. Linda McCarter, U. of Iowa.
- Deanna Colton; Ph.D. 2014. Upon graduation, accepted position as adjunct lecturer York Technical College, South Carolina.
- Zomary Flores-Cruz; postdoc 2010-2012. Left as Assistant Professor, U. of Puerto Rico.
- Alecia Septer; Ph.D. 2012. Upon graduation, accepted postdoc with Dr. Karin Gibbs, Harvard U. Now Assistant Professor (Marine Sciences), University of North Carolina.
- Noreen Lyell; Ph.D. 2011. Upon graduation, accepted postdoc with Dr. Stuart Levy, Tufts U. Now lecturer (Biological Engineering), Massachusetts Institute of Technology.
- Dawn Adin; Ph.D. 2008. Upon graduation, accepted postdoc with Dr. Susan Golden, UCSD. Now Program Manager, US Department of Energy.
- Anne Dunn; postdoc 2002-2007. Left as Assistant Professor, now Associate Professor and Chair, Department of Microbiology and Plant Biology, U. of Oklahoma.
- Jeffrey Bose; Ph.D. 2007. Upon graduation, accepted postdoc with Dr. Ken Bayles, U. Nebraska. Now Assistant Professor (Microbiology, Molecular Genetics & Immunology), University of Kansas.

## <u>Current laboratory personnel</u>

- Julie Stoudenmire; graduate student, PhD candidate (2011-present)
- Marisa Delgado; undergraduate hourly/directed research (2016-present)
- Alizah Garvin; undergraduate hourly/work study/directed study (2016-present)
- Coralis Rodriguez-Garcia; PhD program (2017-present)

#### Other Contributions to student training

- Hosted fourteen additional rotating graduate students since 2001
- Mentored Caleb Fischer, Gabriel Lozano, Megan Kiedrowski, and Jessica Miles at Yale, 2014-2015
- Mentored 37 undergraduate researchers since 2001
- Served on 47 graduate student committees since 2001
  - -UGA Programs: Microbiology (37), Ecology (4), Entomology (2), and Infectious Diseases (1)
  - -Extramural: Georgia Tech (2) and University of Alabama (1)

# **Service** (in addition to "Other Positions" above)

## University Service

- UGA University Council Arts & Sciences Representative, 2011-2014
- · Ad hoc committee on Graduate Admissions and Recruitment (Graduate school), 2014
- Ad hoc committee to evaluate Presidential Fellows Program (Office of VP for Research), 2013
- Search Committee, tenure-track Biology Educator (college-level search), 2012-2013
- Awards Committee, Center for Undergraduate Research Opportunities, 2012
- UGA Faculty Research Grant Review Committee, 2007-2009 (wrote guide for proposers)

# **Departmental Service**

- Post-tenure Review Committee, 2016
- Search Committee (Chair), Lecturer, 2016
- Faculty Mentoring Committee, Dr. Zack Lewis, 2011-2016
- Faculty Mentoring Committee, Dr. Vinny Starai, 2010-2015
- Committee to review Departmental Promotion & Tenure criteria, 2014
- Search Committee, Graduate Program Assistant, 2013
- Website Redesign, one of three faculty/staff responsible for overhaul of website, 2012-2013
- Search Committee, Microbiology tenure-track Assistant Professor, 2011-2012
- Graduate Affairs Committee, 2002-2004 & 2006-2014
- Coordinated preparation and presentation of Microbiology Department vision and plan, 2010
- Graduate Student Recruitment Committee, 2002-2005
- Audrey N. Best Scholarship Committee (for a one-time student award), UGA 2002
- Chair, Plant Pathology Departmental Safety Committee, U. Wisconsin, 1994-1996

#### Peer Review

- Editorial board, Journal of Bacteriology (2016-present)
- Editorial board, Applied and Environmental Microbiology (2005-2016) (~250 manuscripts reviewed)
- Grant Review Panelist, National Science Foundation, 2006, 2009, 2013, and 2017
- Grant Review Panelist, National Institutes of Health SCORE program, 2008 and 2009
- Contributing Member, Faculty of 1000, Cellular Microbiology and Pathogenesis, 2005-2010
- Ad hoc reviewer for thirty-eight journals (2001-present) including Science, PNAS, mBio, eLife, ISME journal, PLoS Pathogens, Molecular Microbiology, and Environmental Microbiology
- Ad hoc reviewer for sixteen NSF programs (2004-present)
- Ad hoc reviewer promotion/tenure applications: twelve candidates, nine research universities
- Ad hoc reviewer Graduate Women in Science fellowship program
- 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

# Meeting and Seminar Organization

- Co-organizer, 30<sup>th</sup> annual Vibrio fischeri-Euprymna scolopes Symbiosis Symposium, Scripps Institute of Oceanography (to be held in June 2018)
- ASM Microbe (formerly ASM General Meeting) abstract review and session design, 2015 and 2016
- Proposed and chaired session "Behavior Modification in Bacteria" at ASM General Meeting, 2014
- ASM General Meeting abstract review and session design, as ASM Division I officer, 2012-2014
- Co-organizer, 16<sup>th</sup> annual Vibrio fischeri-Euprymna scolopes Symbiosis Symposium, Hawai'i Institute of Marine Biology, Kaneohe Hawai'i, 2004
- Co-organizer, W.J. Payne Memorial Symposium, UGA, 2004
- Robert Kane Memorial Lecture Committee. U. Hawai'i. 1998.
- Initiated Bacteriology student-selected speaker seminar series, U. Wisconsin, 1996
- Plant Pathology Seminars Committee, U. Wisconsin, 1995

# **Teaching & Education**

## Teaching

- Course Designer & Instructor, UGA, Microbiology 4500/6500 Bacterial Symbioses, 2003-present
- Co-Instructor, UGA, Microbiology 4090/6090, Prokaryotic Biology, 2011-2017
- Instructor, UGA, Microbiology 8160, Seminar in Microbiology, 2015
- Instructor, Yale University, MCDB 123, Genes and Environment, 2015
- Instructor, UGA, Microbiology 8150, Seminar in Diversity of Microbial Research, 2011-2013
- Co-Instructor, UGA, Biology 1108, Principles of Biology II, 2010
- Course Designer & Instructor, UGA, Microbiology 8700-Special Topics: Bacterial Symbioses, 2002
- Guest lecturer, eight 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

## NSF-Funded Research Experience for Undergraduates (REU) site-program

- PI (competitive renewal), Summer REU site program 2008-2011
- Co-PI (competitive renewal), Summer REU site program 2011-2014
- REU Admissions Committee, 2016 and 2017
- Initiated, led, and tailored *Entering Mentoring* program for grad students & postdocs, 2008-2013
- Presented "How to Prepare and Present a Poster" to program participants, 2002-2013
- Hosted & mentored sixteen REU participants, 2002-present

# **Invited Seminars and Workshops**

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

UGA Academic Affairs Faculty Symposium: The Teaching/Research Nexus: Building Effective Bridges, Stockbridge GA, March 2012

- \*\* Biology Research Experience for Undergraduates Workshop, NSF, Arlington VA, March 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, February 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, February 2006

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

College of William and Mary, Biology Department, 2/17/2017 (Dr. Will Soto)

- \*\* ASM Beneficial Microbes Conference, Seattle, 9/10/2016
  - Kennesaw State University, Molecular Biosciences Interest Group, 8/26/2016 (Dr. Melanie Griffin)

University of Tennessee, Dept. of Microbiology, 6/22/2015 (Dr. Alison Buchan)

Dartmouth, Dept. of Microbiology and Immunology, 5/11/2015 (Mr. Kurt Dahlstrom, student)

University of Connecticut, Dept. of Molecular and Cell Biology, 3/3/2015 (Dr. Spencer Nyholm)

University of Tennessee, Dept. of Microbiology, 2/9/2015 (Dr. Liz Fozo)

Northwestern University, Dept. of Microbiology-Immunology, 11/25/2014 (Dr. Mark Mandel)

\*\* General Meeting, American Society for Microbiology, Boston, 5/18/2014

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 University 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 Natl. Lab., Center for Nanophase Materials Sciences, 8/20/2007 (Dr. Michael Allen)

Valdosta State Univ., Science Seminar Series, 1/18/2007 (Dr. Archna Bhasin)

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 Sobecki)

## Intramural (UGA) Seminars (host):

Department of Avian Medicine, 3/27/2006 (Dr. Margie Lee)

Department of Cellular Biology, 9/28/2004 (Dr. Boris Striepen)

Department of Marine Biology, 9/25/2003 (Dr. Adrian Burd)

Department of Genetics, 9/10/2003 (Dr. Mary Bedell)

Department of Medical Microbiology and Parasitology, 2/4/2003 (Dr. David Peterson)

#### **Funding**

#### **Current Extramural Support:**

- PI, NSF (MCB), Collaborative Research: Evolution of information processing in the Vibrio fischeri pheromone-signaling network, 2017-2020 \$420,000 total costs; [MCB-1716232]
- PI, NSF (IOS), Collaborative Research: Experimental evolution of peptidoglycan in the bacterial symbiont Vibrio fischeri, 2016-2019, Budget for Stabb Lab \$419,838 total costs; [IOS-1557964]
- PI, NSF (MCB), 6th ASM Conference on Cell-Cell Communication in Bacteria, 2017-2018, \$9,100 total costs; [MCB-1735551]
- PI, Department of Energy (DOE), ASM Conference on Cell-Cell Communication in Bacteria, 2017-2018, \$10,200 total costs; DOE-BER (recommended for funding)

#### Previous Extramural Support:

- PI, NSF (IOS), Sensing more than a quorum: The role of pheromones in the light-organ symbiont Vibrio fischeri, 2011-2015, \$503,257 total costs; [IOS-1121106]
- PI, NSF (MCB), 5th ASM Conference on Cell-Cell Communication in Bacteria, October 2014 in San Antonio, Texas, 2014-2015, \$9,100 total costs; [MCB-1440104]
- Co-PI, NSF (DBI), Research Experience for Undergraduates Site Program: Research in Prokaryotic biology, 2011-2014, \$313,482 total costs
- 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 Al50661, (PI: Margaret McFall-Ngai, University of Wisconsin), 2001-2006 and 2007-2009, Budget for Stabb lab \$396,950 total costs [R01 Al 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-Pl'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, 2010-2012, \$189,000 total costs [DBI-0905813]
- Mentor/PI; Alecia Septer was awarded a Pre-doctoral National Defense Science and Engineering Graduate Fellowship through the Army Research Office, 2008-2011, (full stipend, tuition, & benefits)
- Advisor; Alecia Septer was awarded a competitive ARCS Foundation Fellowship (\$7,500 per year)
- Advisor; 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:

- Kimbrough, J.H. and **E.V. Stabb**. 2017. Comparative analysis reveals regulatory motifs at the *ainS/ainR* pheromone-signaling locus of *Vibrio fischeri*. Science Reports (In Press)
- Lyell, N.L., A.N. Septer, A.K. Dunn, D. Duckett, J.L. Stoudenmire and **E.V. Stabb** 2017. An expanded transposon-mutant library reveals that *Vibrio fischeri* δ-aminolevulinate auxotrophs can colonize *Euprymna scolopes*. Applied and Environmental Microbiology 83: e02470-16
- Fischer, C.N., E. Trautman, J.M. Crawford, **E.V. Stabb**, N.A. Broderick, and J. Handelsman. 2017. Metabolite exchange between microbiome members produces compounds that influence *Drosophila* behavior. ELife 6:e18855
- Stulberg, E., G.L. Lozano, J.B. Morin, H. Park, E. G. Baraban, C. Mlot, C. Heffelfinger, G. M. Phillips, J.S. Rush, A.J. Phillips, N.A. Broderick, M.G. Thomas, **E. V. Stabb**, and J. Handelsman. 2016.

- Genomic and secondary metabolite analyses of *Streptomyces* sp. 2AW provide insight into the evolution of the cycloheximide pathway. Frontiers in Microbiology 7:573
- Kimbrough, J.H. and **E.V. Stabb**. 2016. Antisocial *luxO* mutants provide a stationary-phase survival advantage in *Vibrio fischeri* ES114. Journal of Bacteriology. 198:673-687
- Dunn, A.K., B.A. Rader, **E.V. Stabb,** and M.J. Mandel 2015. Regulation of bioluminescence in *Photobacterium leiognathi* strain KNH6. Journal of Bacteriology 197:3676-3685
- Colton, D.M., J.L. Stoudenmire and **E.V. Stabb**. 2015. Growth on glucose decreases cAMP-CRP activity while paradoxically increasing intracellular cAMP in the light-organ symbiont *Vibrio fischeri*. Molecular Microbiology 97:1114-1127
- Colton, D.M., **E.V. Stabb**, and S.J. Hagen. 2015. Modeling analysis of signal sensitivity and specificity by *Vibrio fischeri* LuxR variants. PLoS One 10:e0126474
- Septer, A.N., J.L. Bose, A. Lipzen, J. Martin, C. Whistler, and **E.V. Stabb**. 2015. Bright luminescence of *Vibrio fischeri* aconitase mutants reveals a connection between citrate and the Gac/Csr regulatory system. Molecular Microbiology 95: 283-296
- Kimbrough, J.H. and **E.V. Stabb**. 2013. Substrate specificity and function of the pheromone receptor AinR in *Vibrio fischeri* ES114. Journal of Bacteriology 195:5223-5232
- Lyell, N.L., D.M. Colton, J.L. Bose, M.P. Tumen-Velasquez, J.H. Kimbrough, and **E.V. Stabb**. 2013. Cyclic AMP-receptor protein regulates pheromone-mediated bioluminescence at multiple levels in *Vibrio fischeri* ES114. Journal of Bacteriology 195:5051-5063
- Lyell, N.L. and **E.V. Stabb**. 2013. Symbiotic characterization of *Vibrio fischeri* ES114 mutants that display enhanced luminescence in culture. Applied and Environmental Microbiology 79:2480-2483
- 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 79:1826-1834
- 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 dechelatase. MBio 2:e00248-11
- Septer, A.N., Y. Wang, E.G. Ruby, **E.V. Stabb**, and A.K. Dunn. 2011. The haem-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. Contribution of rapid evolution of the *luxR-luxl* intergenic region 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 74:7059-63
- 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 β-galactosidase activity in *Vibrio fischeri*. Applied and Environmental Microbiology 74:4059-69.
- 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
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