

Tory A. Hendry

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APPOINTMENTS

- 2018-present **Assistant Professor**
Department of Microbiology, Cornell University
- 2016-2018 **Research Scientist**
Department of Microbiology, Cornell University
- 2013-2015 **USDA-NIFA Postdoctoral Fellow**, University of California, Berkeley
Mentor: Nicholas J. Mills
- 2012-13 **Postdoctoral Research Associate**, University of Arizona
PI: David A. Baltrus
- 2004-06 **Research Technician**, University of Michigan
PI: Yin-Long Qiu

EDUCATION

- Ph.D. **University of Michigan**, Ecology and Evolutionary Biology
2012 *Genome reduction and evolution in an obligate luminous symbiont*
Advisor: Paul V. Dunlap
Committee Members: Yin-Long Qiu, Gregory J. Dick, Patrick D. Schloss
- B.A. **Williams College**, Biology with Honors
2004 Advisor: Heather Williams

GRANTS AND FELLOWSHIPS

- 2017-2020 USDA-NIFA-AFRI Foundational Competitive Award (\$382,032)
- 2016-2019 CUAES Hatch Federal Capacity Funds (\$64,000)
- 2014-2016 USDA-NIFA-AFRI Postdoctoral Fellowship (\$100,553)
- 2011 Edwin H. Edwards Fellowship, University of Michigan (\$10,000)
- 2007-11 EEB Departmental Research Grants, University of Michigan (\$8000)
- 2007, 08 Rackham Graduate Student Grants, University of Michigan (\$8000)

PUBLICATIONS

*undergraduate coauthors

Smee, M.R., D.A. Baltrus, and **T.A. Hendry**. Entomopathogenicity to two hemipteran insects is common but variable across epiphytic *Pseudomonas syringae* strains. *Frontiers in Plant Science*, doi: 10.3389/fpls.2017.02149

Hendry, T.A., J. R. de Wet, K. E. Dougan*, and P. V. Dunlap. (2016) Genome evolution in the obligate but environmentally active luminous symbionts of flashlight fish. *Genome Biology and Evolution*, 8: 2203-2213.

- Hendry, T. A.**, K. J. Clark* and D. A. Baltrus. (2016) A highly infective plant-associated bacterium influences reproductive rates in pea aphids. *Royal Society Open Science*, 3: 150478.
- Sheehan, M. J., C. A. Botero, **T. A. Hendry**, B. E. Sedio, J. M. Jandt, S. Weiner, A. L. Toth, and E. A. Tibbetts. (2015) Different axes of environmental variation explain the presence versus extent of cooperative nest foundation in *Polistes* wasps. *Ecology Letters*, 18:1057-1067.
- Hendry, T. A.**, M.S. Hunter, and D. A. Baltrus. (2014) The facultative symbiont *Rickettsia* protects an invasive whitefly against entomopathogenic *Pseudomonas syringae* strains. *Applied and Environmental Microbiology*, 80:7161-7168.
- Hendry, T.A.** and P. V. Dunlap. (2014) Phylogenetic divergence between the obligate luminous symbionts of flashlight fishes demonstrates specificity of bacteria to host genera. *Environmental Microbiology Reports*, 6: 331–338.
- Hendry, T.A.**, J.R. de Wet, and P.V. Dunlap. (2014) Genomic signatures of obligate host dependence in the luminous bacterial symbiont of a vertebrate. *Environmental Microbiology*, 16: 2611–2622.
- Dunlap, P.V., M. Takami, S. Wakatsuki, **T.A. Hendry**, K. Sezaki, A. Fukui. (2014) Inception of bioluminescent symbiosis in early developmental stages of the deep-sea fish, *Coelorinchus kishinouyei*. *Ichthyological Research*, 61: 59-67.
- Hendry, T.A.**, and P.V. Dunlap. (2011) The uncultured luminous symbiont of *Anomalops katoptron* (Beryciformes: Anomalopidae) represents a new bacterial genus. *Molecular Phylogenetics and Evolution*, 61: 834-843.
- Urbanczyk, H., Y. Ogura, **T.A. Hendry**, A.L. Gould, N. Kiwaki, J.T. Atkinson, T. Hayashi, and P.V. Dunlap. (2011) Genome sequence of *Photobacterium mandapamensis* svers.1.1, the bioluminescent symbiont of the cardinalfish *Siphamia versicolor*. *The Journal of Bacteriology*, 193: 3144-3145.
- Qiu, Y.-L., L. Li, B. Wang, J.-Y. Xue, **T.A. Hendry**, R. Li, J.W. Brown, Y. Liu, G.T. Hudson, and Z.-D. Chen. (2010) Angiosperm phylogeny inferred from sequences of four mitochondrial genes. *Journal of Systematics and Evolution*, 48: 391-425.
- Jian, S., P. S. Soltis, M. A. Gitzendanner, M. J. Moore, R. Li, **T. A. Hendry**, Y.-L. Qiu, A. Dhingra, C. D. Bell, D. E. Soltis. (2008) Resolving an ancient, rapid radiation in Saxifragales. *Systematic Biology*, 57: 38-57.
- Hendry, T.A.**, Y. Yang, E.C. Davis, J.E. Braggins, R.M. Schuster, & Y.-L. Qiu. (2007) Evaluating the phylogenetic positions of four liverworts from New Zealand, *Neogrollea notabilis*, *Goebelobryum unguiculatum*, *Jackiella curvata*, and

Herzogianthus vaginatus, using three chloroplast genes. *The Bryologist*, 110: 738-751.

Qiu, Y.-L., L. Li, B. Wang, Z. Chen, O. Dombrovska, J. Lee, L. Kent, R. Li, R.W. Jobson, **T.A. Hendry**, D.W. Taylor, C.M. Testa, & M. Ambros. (2007) A non-flowering land plant phylogeny inferred from nucleotide sequences of seven chloroplast, mitochondrial and nuclear genes. *International Journal of Plant Sciences*, 165: 691-708.

Qiu, Y.-L., L. Li, **T.A. Hendry**, R. Li, D.W. Taylor, M.J. Issa, A.J. Ronen, M.L. Vekaria, & A.M. White. (2006) Reconstructing the basal angiosperm phylogeny: evaluating information content of the mitochondrial genes. *Taxon*, 55: 837-856.

Qiu, Y.-L., L. Li, B. Wang, Z. Chen, V. Knoop, M. Groth-Malonek, O. Dombrovska, J. Lee, L. Kent, J. Rest, G.F. Estabrook, **T.A. Hendry**, D.W. Taylor, C.M. Testa, M. Ambros, B. Crandall-Stotler, R.J. Duff, M. Stech, W. Frey, D. Quandt, & C.C. Davis. (2006) The deepest divergences in land plants inferred from phylogenomic evidence. *Proceedings of the National Academy of Sciences, USA*, 103: 15511-15516.

Book Chapters

Baltrus, D.A., **T.A. Hendry**, and K.L. Hockett. (2014) Ecological genomics of *Pseudomonas syringae*. In *Genomics of plant-associated bacteria*, D.C. Gross, A. Lichens-Park, C. Kole (Eds.). Springer.

INVITED PRESENTATIONS

- 2018 Hendry, T.A. The influence of epiphytic pathogens on aphid feeding choice. Entomology Departmental Seminar, Pennsylvania State University.
- 2017 Hendry, T.A. The influence of epiphytic pathogens on aphid feeding choice. Organized Oral Session "The extended phenotype of microbial interactions." Ecological Society of America, Portland, OR.
- 2017 Hendry, T.A. Evolving dependence: Genome reduction in bioluminescent symbionts. invited speaker for ASM undergraduate microbiology club, Grand Valley State University chapter, Grand Rapids, MI.
- 2016 Hendry, T.A. Ecological and evolutionary effects of interactions between bacteria and hosts. Department of Biological Sciences, Dartmouth College
- 2016 Hendry, T.A. Plant-associated bacteria in interactions with insects. Section of Plant Pathology and Plant-Microbe Biology departmental seminar series, Cornell University.

CONFERENCE PRESENTATIONS

- 2016 Hendry, T.A. Genome evolution and gene loss in the luminous symbionts of deep-sea anglerfish. Evolution Society Meeting, Portland, OR.
- 2014 Hendry, T.A., N.J. Mills, K.J. Clark and D.A. Baltrus. The impacts of a common plant associated bacterium, *Pseudomonas syringae*, on survival and reproduction of hemipteran insects. Entomological Society of America Meeting, Portland, OR.

- 2014 Hendry, T.A., M.S. Hunter and D.A. Baltrus. The facultative symbiont *Rickettsia* protects whiteflies against cryptic *Pseudomonas syringae* pathogens. Ecological Society of America Meeting, Sacramento, CA.
- 2014 Hendry, T.A., M.S. Hunter and D.A. Baltrus. The facultative symbiont *Rickettsia* protects whiteflies against cryptic *Pseudomonas syringae* pathogens. Evolution Society Meeting, Raleigh, NC.
- 2014 Hendry, T.A., M.S. Hunter and D.A. Baltrus. The facultative symbiont *Rickettsia* protects whiteflies against cryptic *Pseudomonas syringae* pathogens. Ecological Society of America Meeting, Sacramento, CA.
- 2013 Hendry, T.A., K.E. Clark, and D.A. Baltrus. A recent evolution of entomopathogenicity within a plant pathogen, *Pseudomonas syringae*. Evolution Society Meeting, Snowbird, UT.
- 2011 Hendry, T.A. Genome reduction and host dependence in a luminous symbiont. EEB Departmental Seminar, University of Michigan, Ann Arbor, MI.
- 2010 Hendry, T.A. and P.V. Dunlap. Luminescence operon structure and regulation in a new luminous symbiont genus (poster), Evolution Society Meeting, Portland, OR.
- 2009 Hendry, T.A. and P.V. Dunlap. Phylogenetic analysis and luminescence operon structure of a novel luminous symbiont lineage (poster), Early Careers Science Symposium, University of Michigan, Ann Arbor, MI.

OUTREACH

- 2018 Darwin Days Events, Paleontological Research Institute, Ithaca, presenter
- 2017-2018 Co-organizer of Cornell Institute of Host-Microbe Interactions and Disease (CIHMID) Undergraduate Research Experience program
- 2017 BioBlitz, "Team Microbe." Sampling of phyllosphere bacteria and outreach
- 2017 Lead PI on submission of Microbial Friends and Foes (MFF) REU grant proposal

PROFESSIONAL ACTIVITIES

Professional Memberships

The Society for the Study of Evolution, The Ecological Society of America, The Entomological Society of America, The American Society for Microbiology