

# Tory A. Hendry

USDA-NIFA Postdoctoral Fellow  
Department of Environmental Science, Policy, & Management  
University of California, Berkeley  
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## EDUCATION

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- Ph.D.      **University of Michigan**, Ecology and Evolutionary Biology, August 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, June 2004  
Advisor: Heather Williams

## APPOINTMENTS

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- Current      **USDA-NIFA Postdoctoral Fellow**, University of California, Berkeley  
Mentors: Nicholas J. Mills and Steven E. Lindow
- 2012-13      **Postdoctoral Research Associate**, University of Arizona  
PI: David A. Baltrus
- 2004-06      **Research Associate**, University of Michigan  
PI: Yin-Long Qiu

## PUBLICATIONS

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- Hendry, T. A.**, M.S. Hunter, and D. A. Baltrus. (2014) The facultative symbiont *Rickettsia* protects an invasive whitefly against entomopathogenic *Pseudomonas syringae* strains. *In press at Applied and Environmental Microbiology*.
- 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. Dombrowska, 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. Dombrowska, 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.

*In Preparation* (\*undergraduate mentee co-authors)

**Hendry, T.A.,** K. Dougan,\* J.R. de Wet, and P.V. Dunlap. Genome stasis and selection in the genomes of co-occurring obligate luminous symbionts with specific hosts. (*In preparation* for the ISME Journal).

**Hendry, T.A.,** D. A. Baltrus. Virulence to insects is a highly variable, quantitative trait in *Pseudomonas syringae* strains. (*In preparation*)

**Hendry, T.A.,** K.E. Clark,\* and D.A. Baltrus. High infection levels of the plant pathogen *Pseudomonas syringae* pv. *tomato* cause host death and increased reproduction rates in pea aphids (*Acyrtosiphon pisum*). (*In preparation*)

## **GRANTS AND FELLOWSHIPS**

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2014-2016 AFRI-USDA-NIFA Postdoctoral Fellowship (\$100,553)  
2013 Cactus and Succulent Society of America Research Grant (\$1500)  
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)

## **PRESENTATIONS**

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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.

## **TEACHING**

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*Graduate Student Teaching, University of Michigan*

2006-2012 Biol 173: Introductory Biology Lab, lab instructor, 1 semester  
Biol 390: Evolution, discussion instructor, 1 semester  
Biol 207: Introductory Microbiology, lab instructor, 7 semesters

*Guest Lecturer*

2010 “Marine Microbial Ecology,” Biol 207: Introductory Microbiology, University of Michigan

**PROFESSIONAL ACTIVITIES**

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*Professional Memberships*

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

*Reviewing*

*PLoS One, PLoS Pathogens*

**SERVICE AND OUTREACH**

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2010-11 EEB Graduate Affairs Committee, University of Michigan  
2009-11 Mentor for first-year graduate students in EEB, University of Michigan  
2009-10 EEB Admissions Committee, University of Michigan  
2009 Alumni panel speaker for students considering graduate school, Biology Department, Williams College

**STUDENTS MENTORED**

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Undergraduates: Katherine Dougan (master’s program in Marine Science), Kelley Clark (Ph.D. program in Plant Pathology), Kevin Thompson, Kyle Kline, Aiyana Powell, Lilian Thoi (current), Kate Browning (current), James Dunn (current)

**PROFESSIONAL REFERENCES**

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**Paul V. Dunlap**

Professor, University of Michigan  
Ecology and Evolutionary Biology  
2019 Natural Sciences  
830 N. University Avenue  
Ann Arbor, MI 48109  
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**Steven E. Lindow**

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