

Education

2008 Ph.D. in Microbiology, University of Georgia.

2000 B.S. in Microbiology, *cum laude* and B.S. in Biochemistry, University of Oklahoma.

Professional Experience

2022–present Founder, Director of R&D, Two Frontiers Project

2019–present Research Scientist, Colorado State University

2021–2021 Scientific Director, Mr. Fusion, Inc.

2018–2019 Director of Microbial Discovery, Growcentia, Inc.

2014–2018 Bioinformatician and Environmental Microbiologist, AgBiome, Inc.

2012–2014 Visiting Assistant Research Professor, University of Illinois Urbana-Champaign

2010–2012 Staff Scientist, Idaho National Laboratory

Selected Training

2010 Microbial Diversity Summer Course Graduate, The Marine Biological Laboratory, Woods Hole

2008–2010 Postdoctoral Associate, Idaho National Laboratory

2000–2001 Laboratory Technician, University of Oklahoma

Selected Publications

Complete list available at <http://scholar.google.com/citations?user=jExwRwsAAAAJ>

Peer-Reviewed Publications

- M. G. Schubert, T-C. Tang, I. M. Goodchild-Michelman, K. A. Ryon, **J. R. Henriksen**, T. Chavkin, Y. Wu, et al. Cyanobacteria Newly Isolated from Marine Volcanic Seeps Display Rapid Sinking and Robust, High Density Growth. *bioRxiv*, October 30, 2023. <https://doi.org/10.1101/2023.10.30.564770>
- E. A. Szymanski, **J. R. Henriksen**. 2022. Reconfiguring the Challenge of Biological Complexity as a Resource for Biodesign. *mSphere*, 7:6, e00547-22. <http://doi.org/10.1128/msphere.00547-22>
- B. Tierney, E. Szymanski, **J. R. Henriksen**, A. Kostic, and C. Patel. 2021. Using Cartesian doubt to build a sequencing-based view of microbiology. *mSystems*. 6(5):e0057421. <http://doi.org/10.1128/msystems.00574-21>
- A. Crawley, **J. R. Henriksen**, and R. Barrangou. 2018. CRISPRdisco: An automated pipeline for the discovery and analysis of CRISPR-Cas systems. *The CRISPR Journal*, 1:2, 171-181. <http://doi.org/10.1089/crispr.2017.0022>
- R. Garrido-Oter, R. T. Nakano, N. Dombrowski, **The AgBiome Team**, A. C. McHardy, and P. Schulze-Lefert. 2018. Modular traits of the rhizobiales root microbiota and their evolutionary relationship with symbiotic rhizobia. *Cell Host & Microbe* 24(1):155-167. <http://doi.org/10.1016/j.chom.2018.06.006>

- K. J. Grubbs, R. M. Bleich, K. C. Santa Maria, S. E. Allen, S. Farag, **The AgBiome Team**, E. A. Shank, and A. A Bowers. 2017. Large-scale bioinformatics analysis of *Bacillus* genomes uncovers conserved roles of natural products in bacterial physiology. *MSystems* 2(6):e40-17. <http://doi.org/10.1128/mSystems.00040-17>
- A. P. Alivisatos, M. J. Blaser, E. L. Brodie, M. Chun, J. L. Dangl, T. J. Donohue, P. C. Dorrestein, J. A. Gilbert, J. L. Green, J. K. Jansson, R. Knight, M. E. Maxon, M. J. McFall-Ngai, J. F. Miller, K. S. Pollard, E. G. Ruby, S. A. Taha, and **The Unified Microbiome Initiative Consortium**. 2015. A unified initiative to harness earth's microbiomes. *Science* 350(6260):507-8. <http://doi.org/10.1126/science.aac8480>
- N. D. Youngblut, J. S. Wirth, **J. R. Henriksen**, M. Smith, H. Simon, W. W. Metcalf, and R. J. Whitaker. 2015. Genomic and phenotypic differentiation among *Methanosarcina mazei* populations from Columbia River sediment. *The ISME Journal* 9(10):2191-2205. <http://doi.org/10.1038/ismej.2015.31>
- M. N. Benedict, **J. R. Henriksen**, W. W. Metcalf, R. J. Whitaker, and N. D. Price. 2014. ITEP: An integrated toolkit for exploration of microbial pan-genomes. *BMC Genomics* 15(1):8. <http://doi.org/10.1186/1471-2164-15-8>
- E. C. Howard, **J. R. Henriksen**, A. Buchan, C. R. Reisch, H. Bürgmann, R. Welsh, W. Ye, J. M. González, K. Mace, S. B. Joye, R. P. Kiene, W. B. Whitman, and M. A. Moran. 2006. Bacterial taxa that limit sulfur Flux from the Ocean. *Science*. 314(5799):649-652. <http://dx.doi.org/10.1126/science.1130657>
- M. A. Moran, A. Buchan, J. M. González, J. F. Heidelberg, W. B. Whitman, R. P. Kiene, **J. R. Henriksen**, *et al.* 2004. Genome sequence of *Silicibacter pomeroyi* reveals adaptations to the marine environment. *Nature*. 432(7019):910-913. <http://dx.doi.org/10.1038/nature03170>

Published Patents

- J. R. Henriksen**. Methods for making a synthetic gene. WO 2016/106184 A1. Priority December 22, 2014, published June 30, 2016, granted June 22, 2021. http://www.lens.org/lens/patent/WO_2016_106184_A1
- V. Beilinson and **J. R. Henriksen**. Sequences to facilitate incorporation of DNA into the genome of an organism. WO 2016/100832 A1. Priority December 19, 2014, published June 23, 2016, granted March 16, 2021. http://www.lens.org/lens/patent/WO_2016_100832_A1
- V. Beilinson, **J. R. Henriksen**, J. C. Jones, R. D. Kelly, and A. Shekita. Methods and compositions for providing resistance to glufosinate. WO 2016/100804 A1. Priority December 19, 2014, published June 23, 2016, granted July 9, 2019. <http://www.lens.org/lens/patent/063-171-197-908-022>
- A Crawley, **J. R. Henriksen**, M. Moore, and R. Thayer. Methods And Compositions To Identify Novel Crispr Systems. WO 2019/195379 A1. WO, Priority April 4, 2018, published October 10, 2019. <http://lens.org/056-669-622-476-852>
- J. R. Henriksen** and D. J. Tomso. Methods for classifying organisms based on DNA or protein sequences. WO 2016/106089 A1. Priority December 22, 2014, published June 30, 2016. http://www.lens.org/lens/patent/WO_2016_106089_A1