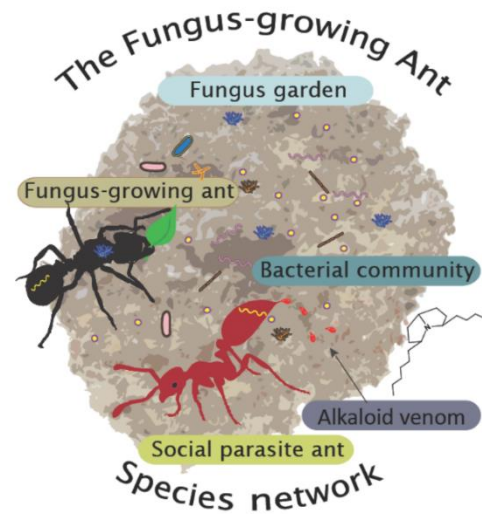


# Postdoctoral Position: Ant Venomics

The Adams lab broadly aims to understand the evolution of traits that drive community assembly in ant-centric symbiotic species networks. This position focuses on comparative questions relating to venom evolution in *Megalomyrmex* ants.

The 1-2 year project will explore the variation in transcripts expressed in the venom glands of free-living and parasite species. Social parasites exploit ant societies by invading and stealing resources. *Megalomyrmex* ants enter host nests using chemical weaponry made from alkaloid-based venom (e.g., pyrrolidines, pyrrolizidines, piperidines, and pyrrolines). We have characterized the venom alkaloids of many species and would now like to explore and compare transcriptomes to understand the underlying genes responsible for venom toxicity.



Dr. Adams leads a collaborative team in a supportive research environment at the Museum of Biological Diversity at The Ohio State University. She is committed to creating a diverse and inclusive team that is productive, happy and will attain their career goals.

Interested candidates should have a strong publication record appropriate for your career stage and *ideally* experience in –omics techniques (e.g., transcriptome sequencing, genome assembly, comparative genomics and evolution). Top candidates will have excellent communication skills, enthusiasm for symbiosis research and a compelling argument that explains how their skillset will advance this line of work while also proposing additional projects of interest.

The successful applicant will work closely with Dr. Adams and her students in research design; field collections in Panama and/or Costa Rica; the establishment and maintenance of laboratory experiments and bioassays; data collection, management and statistical analyses; and possibly the supervision of live ant colonies.

Applications are encouraged from motivated individuals who have a Ph.D. or are nearing completion of their Ph.D. Please send a single pdf including 1) your CV, 2) a letter of motivation (your interests, past experience, and why you want to work with venomics), and 3) the names, addresses and phone numbers of three references. Women and underrepresented minorities are particularly encouraged to apply. Review of applications will begin by 15 September 2018 and will continue until the position is filled. Starting date is flexible.

Send material to Dr. Rachelle M. M. Adams: [adams.1970@osu.edu](mailto:adams.1970@osu.edu)  
Learn more about the lab: [megalomyrmex.osu.edu](http://megalomyrmex.osu.edu)



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