



**Ph.D. - Graduate Position
(Host-Parasite Interactions)**

Location: Department of Biological Sciences
University of Cincinnati, Cincinnati, Ohio

We seek a highly motivated PhD student to study the proximate and evolutionary bases of ectoparasite resistance and of associated costs of resistance (trade-offs) in two *Drosophila*-mite parasite systems (Figure 1). Research for this project will encompass host physiology and behavior, and the utilization of next-generation methods to characterize evolutionary response to parasite-mediated selection pressure. The graduate student will be given the flexibility and support to develop their own research directions in host-parasite biology, and will train in a vibrant and nationally recognized academic environment. The student will be expected to publish scientific articles from the research, present their findings at professional meetings, and assist in mentorship of undergraduates. Applicants should have some experience working with insects and/or with molecular, physiological, and bioinformatics techniques. A full stipend is available for up to five years beginning from the start date. The student will be co-advised by Dr. Joshua B. Benoit and Dr. Michal Polak in newly renovated lab space in the Department of Biological Sciences at the University of Cincinnati.



Figure 1: *Drosophila* parasitized by ectoparasitic mites

Required: A BS degree, competitive grade point average, and fluency in English.

This position will be available September 1, 2017, and will remain open until filled. Students interested should send a one-page cover letter, CV, unofficial academic transcripts, and the contact information of 2 to 4 references to Dr. Benoit (joshua.benoit@uc.edu) and Dr. Polak (michal.polak@uc.edu).

For more information regarding the position, contact either Dr. Benoit (joshua.benoit@uc.edu) or Dr. Polak (michal.polak@uc.edu).

Once a candidate is selected, she/he will submit a formal graduate application to the University of Cincinnati.

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Relevant Links:

<http://www.artsci.uc.edu/departments/biology.html>

<http://insectphysiology.uc.edu/>

http://www.artsci.uc.edu/faculty-staff/listing/by_dept/biology.html?eid=polakm