

## BIOGRAPHICAL SKETCH

### Daniel A. Hahn

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### Professional Preparation

Florida State University	Biological Sciences	B.S.	1996
University of Arizona	Insect Science	Ph.D.	2003
Ohio State University	Physiology & Molecular Biology	Postdoc	2003-2005

### Appointments

2005-Present Assistant Professor, Department of Entomology and Nematology, The University of Florida-Gainesville. (Appointment: 50% Research, 50% Teaching)

2004-2005 Postdoctoral Researcher in Insect Physiology, Biochemistry, and Molecular Genetics, Department of Entomology, Ohio State University, USDA-NRI Postdoc Grant housed in the laboratory of Dr. David L. Denlinger.

2003-2004 Presidential Postdoctoral Fellow, The Ohio State University, Sponsored by Dr. David L. Denlinger, Department of Entomology.

2002-2003 Graduate Fellowship, NSF-RTG in Plant Animal Interactions, University of Arizona

2001-2002 Teaching Assistant, Department of Ecology and Evolutionary Biology, University of Arizona

2000-2002 Graduate Fellowship, NSF-RTG in Analysis of Biological Diversification, University of Arizona

2000-2001 Teaching Assistant, Departments of Molecular and Cellular Biology & Ecology and Evolutionary Biology, University of Arizona

1999-2000 Graduate Fellowship, Arizona Research Labs, University of Arizona

1997-1999 Teaching Assistant, Departments of Molecular and Cellular Biology & Ecology and Evolutionary Biology, University of Arizona

1996-1997 Graduate Fellowship, Center for Insect Science, University of Arizona

### Grants

Hahn, D.A., and J.L. Feder. 2007 NSF Diapause Energetics in *Rhagoletis pomonella*: a functional link between life history evolution and insect-host plant associations. \$436,000 for 3 yrs.

Hahn, D.A., 2005 USDA-NRI CSREES The regulation of nutrient storage and metabolism during diapause; Implications for the control of insect pests. \$90,000 for 2 yrs.

### Selected Publications

Hahn, D.A., and D.L. Denlinger. 2007. Meeting the energetic demands of insect diapause: nutrient storage and utilization. *Journal of Insect Physiology*. In Press.

Hahn, D.A. 2006. Two closely-related species of desert carpenter ant differ in individual-level allocation to fat storage. *Physiological and Biochemical Zoology*. 79:847-856.

Goodisman, M.A.D. and D.A. Hahn. 2005. Breeding system, colony structure, and genetic differentiation in the *Camponotus festinatus* species complex of carpenter ants. *Evolution*. 59:2185-2199.

- Hahn, D.A. 2005. Larval nutrition affects lipid storage and growth, but not protein or carbohydrate storage in newly eclosed adults of the grasshopper, *Schistocerca americana*. *Journal of Insect Physiology*. 51:1210-1219.
- Hahn, D.A., R. A. Johnson, N.A. Buck, and D.E. Wheeler. 2004. The role of storage proteins in colony founding: a comparative study within the harvester ant genus, *Pogonomyrmex*. *Physiological and Biochemical Zoology*. 77:100-108.
- Goodisman, M.A.D. and D.A. Hahn. 2004. Colony genetic structure of the ant *Camponotus ocreatus*. *Sociobiology*. 44:21-33.
- Hahn, D.A. and D.E. Wheeler. 2003. Presence of a single abundant storage hexamerin in larvae and adults of the grasshopper, *Schistocerca americana*. *Journal of Insect Physiology*. 49:1189-1197.
- Hahn, D.A. and D.E. Wheeler. 2003. Seasonal activity and dietary preferences of ants during an El Nino year. *Biotropica*. 34:348-356.
- Hahn, D.A. and W.R. Tschinkel. 1997. Settlement of newly mated queens of the arboreal ant *Crematogaster ashmeadi*. *Insectes Sociaux*. 44:323-336.

#### **Recent Invited Presentations**

- Hahn, D.A. 2007. Are fatter flies fitter: tales of nutrient storage and life histories. Department of Biology Seminar Series, University of Nevada Las Vegas.
- Hahn, D.A. 2006. Do bugs get fat? Insects as models for research in obesity, diabetes, and infertility. Keynote Address, Annual MAPS Research Forum. University of Florida.
- Hahn, D.A. 2005. Physiology of allocation to nutrient storage: a critical trait in insect life histories. Department of Entomology Seminar Series, University of Florida.
- Hahn, D.A. 2004. Physiology of allocation to nutrient storage: a critical trait in insect life histories. Department of Entomology Seminar Series, The Ohio State University.
- Hahn, D.A. 2003. The role of resource availability in allocation between growth. and nutrient storage in the grasshopper, *Schistocerca americana*: flexibility in allocation reveals priority rules. Physiology of Phenotypic Plasticity Symposium, Society for Integrative and Comparative Biology annual meeting, Toronto ON.
- Hahn, D.A. 2002. The role of resource availability in allocation between growth and nutrient storage in the grasshopper, *Schistocerca americana*: flexibility in allocation reveals priority rules. Hexapodium Seminar Series, Arizona State University, Tempe AZ.

#### **Synergistic Activities**

Active participant in four programs on the UF campus focused on mentoring undergraduate and high school students from underrepresented groups in science. Research and academic mentor to 8 undergraduate students (4 women, 2 minorities). My students have received support from the UF Undergraduate Scholars Program (2), the Howard Hughes Medical Foundation Science for Life Program, and the NIH Minority Research Fellowships.

Developed and taught a course devoted to highly motivated undergraduate students at The University of Florida (Entomology 4905, Research Topics in Insect Physiology). In this course, students learn to do hypothesis-driven research including all stages from experimental design to writing a report in journal format.

Developed and taught a course in the physiology of animal stress for non-science majors at The University of Florida (Agriculture and Life Sciences 2931).

Voluntarily serve as the Insect Physiology outreach consultant for the Florida Institute of Food and Agricultural Sciences serving a combination of public citizens, private corporations, and governmental institutions, such as Science Education Solutions, ATK-GASL, and NASA.

**Collaborators Last 48 Months:**

Norman Buck (University of Arizona), Jeffery Feder (Notre Dame), Michael Goodisman (Georgia Tech), John Hatle (University of North Florida), Robert Johnson (Arizona State University), Adam Lazarus (Woods Hole MBL), Sanford Porter (USDA-ARS Gainesville, FL), Jennifer Wernegreen (Woods Hole MBL).

**Graduate and Postgraduate Advisors:**

Diana E. Wheeler (Dissertation Advisor, University of Arizona), David L. Denlinger (Postdoctoral Advisor, Ohio State University)