

Name Hadas Hawlena

Date (month, year) July, 2007

CURRICULUM VITAE AND LIST OF PUBLICATIONS

• **Personal Details**

Name: Hadas Hawlena

Date and place of birth: December 27, 1974, Israel

Regular military service: March 1992-November 1993

• **Education**

1. B.Sc.–1997-2000 – Ben-Gurion University – Life Sciences. Summa cum laude

2. M.Sc.–2000-2002 – Ben-Gurion University – Life Sciences. Summa cum laude

Name of advisors: Professor Zvika Abramsky and Doctor Boris Krasnov

Transferred to Ph.D. program

3. Ph.D. –2002-2006– Ben-Gurion University – Life Sciences. Thesis in review

Title of thesis: The interrelated nature of host-parasite interactions: role of ecological factors

4. Post Doctorial Associated –2006-current. Ben-Gurion University – Life Sciences

• **Membership in professional/scientific societies**

1. 2000-current, The Zoological Society of Israel

2. 2005, Sigma Xi, the Scientific Research Society

3. 2006, Animal Behaviour Society

• **Educational activities**

(a) Courses taught

1. Chief teaching assistant, Invertebrate Zoology, 1st year undergraduate course, Life Sciences, BGU

2. Chief teaching assistant, Vertebrate Zoology, first year undergraduate course, Life Sciences, BGU

3. Teaching assistant, Economic Botany, undergraduate course, Life Sciences, BGU

4. Teaching assistant, Advanced Ecology, second year undergraduate course, Life Sciences, BGU

5. Teaching assistant, Community Ecology, graduate course for M.Sc. and Ph.D. students, Life Sciences, BGU

(b) Research students

Assisted in supervising Dikla Bashary and Eyal Bloch B.Sc., 3rd year, Life Sciences, BGU supervised by Zvika Abramsky and Boris Krasnov

• **Awards, Citations, Honors, Fellowships**

(a) Honors, Citation Awards

1. 1999 - Faculty of Natural Science, BGU, special distinction for academic achievements in 1998
2. 2000 - Department of Life Sciences, BGU, award for excellent research project
3. 2001 - Department of Life Sciences, BGU, award for academic excellence in 2000
4. 2001 - Zoological Society of Israel, honorary mention for a poster
5. 2002 - BGU, award for academic excellence in M.Sc. from the Rector
6. 2002 - Ministry of Education, award for academic excellence in M.Sc.
7. 2002 - Zoological Society of Israel, honorary mention for a presentation
8. 2006- Merav Ziv Award for academic excellence in Ph.D in Ecology

(b) Fellowships

1. 2001 - The International Arid Lands Consortium, peace fellowship, \$5000 to participate in field research in Las Cruces, New Mexico
2. 2003 - 2006- Kreitman Fellowship for excellence, \$667 per month for 4 years of Ph.D.
3. 2006 - Fulbright postdoctoral fellowship for Israeli students in America, \$20,000 for a year
4. 2007-BIKURA, a postdoctoral fellowship from the Israel Science Foundation, \$27,000 per year for two years

• **Scientific Publications**

*Due to a change in marital status "Tsairi" and "Hawlena" should be regarded as equivalent

1. ***Tsairi, H.** and A. Bouskila. (2004) Ambush site selection of a desert snake (*Echis coloratus*) at an oasis. *Herpetologica* 60:13-23

2. ***Hawlena, H.**, Z. Abramsky, and B.R. Krasnov (2005) Age-biased parasitism and density-dependent distribution of fleas (Siphonaptera) on a desert rodent. *Oecologia* 146:200-208
3. ***Hawlena H.**, Z. Abramsky, and B.R. Krasnov (2006) Ectoparasites and age-dependent survival in a desert rodent. *Oecologia* 148:30-39
4. Krasnov B.R., S. Morand, ***H. Hawlena**, I.S. Khokhlova, G.I. Shenbrot (2005) Sex-biased parasitism, seasonality and sexual size dimorphism in desert rodents. *Oecologia* 146:209-217
5. Krasnov B.R., S. Morand, I.S. Khokhlova, G.I. Shenbrot, and ***H. Hawlena** (2005) Abundance and distribution of fleas on desert rodents: linking Taylor's power law to ecological specialization and epidemiology. *Parasitology* 131:825-837
6. Krasnov B.R., M. Stanko, I.S. Khokhlova, L. Mosansky, G.I. Shenbrot, ***H. Hawlena**, and S. Morand (2006) Aggregation and species coexistence in fleas parasitic on small mammals. *Ecography* 29:159-168
7. ***Hawlena H.**, I.S. Khokhlova, Z. Abramsky, and B.R. Krasnov (2006). Age, intensity of infestation by flea parasites and body mass loss in a rodent host. *Parasitology*, 133:187-193
8. Krasnov B.R., G.I. Shenbrot, I.S. Khokhlova, ***Hawlena H.**, and A.A. Degen (2006). Temporal variation in parasite infestation of a host individual: Does a parasite-free host remain uninfested permanently? *Parasitology Research*, 99: 541-545
9. ***Hawlena H.**, B.R. Krasnov Z. Abramsky, I.S. Khokhlova, D. Saltz, M. Kam, A. Tamir, and A.A. Degen. Flea infestation and energy requirements of rodent hosts: Are there general rules? *Functional Ecology*, 20: 1028-1036
10. ***Hawlena H.**, D. Bashary, Z. Abramsky, and B.R. Krasnov. Benefits, costs and constraints of anti-parasitic grooming in adult and juvenile rodents. *Ethology*, 113: 394-402
11. ***Hawlena H.**, Z. Abramsky, B.R. Krasnov, and D. Saltz. Host defence versus intraspecific competition in the regulation of infrapopulations of the flea *Xenopsylla conformis* on its rodent host *Meriones crassus*. *International Journal for Parasitology*, 37: 919-925

• Articles to be published

1. ***Hawlana H.**, Z. Abramsky, and B.R. Krasnov. Ultimate mechanisms of age-biased flea parasitism. *Oecologia, in review*
2. ***Hawlana H.**, D. Bashary, Z. Abramsky, I.S. Khokhlova, and B.R. Krasnov. Programmed versus stimulus-driven anti-parasitic grooming in a rodent: efficiency, time allocation and age-dependence, *in preparation*
3. ***Hawlana H.**, B.R. Krasnov, B. Pinshow, I.S. Khokhlova, and Z. Abramsky. Effects of food abundance, host age, and flea parasitism on the body condition and immune system variables of a rodent host, and their consequences for parasite survival, *in preparation*

• **Abstracts of presentations on professional meetings:**

1. ***Tsairi, H.**, and A. Bouskila (2000) Ambush site selection of a sit-and wait snake: a combination of a field study and a manipulative experiment. *Israel Journal of Zoology* 47: 185
2. ***Tsairi, H.**, B.R.Krasnov, Z. Abramsky, and I.S. Khokhlova (2002). Does ectoparasite burden affect the body condition, energetic demands and survival of its rodent host? The 9th European Ecological Congress (Eureco '02), Lund, Sweden
3. ***Tsairi, H.**, Z. Abramsky, B.R. Krasnov, and I.S. Khokhlova (2002) Do ectoparasites harm their rodent hosts? An integrated approach of field and laboratory manipulations. The 39th meeting of the Zoological Society of Israel Tel- Aviv, Israel. *Israel Journal of Zoology* 49: 90.
4. ***Hawlana, H.** (2005) Age-biased parasitism and density dependent distribution of fleas (Siphonaptera) on a desert rodent. The 9th International Mammalogical Conference (IMC9). Sapporo, Japan
5. ***Hawlana, H.**, B.R. Krasnov, and Z. Abramsky (2006) Host age: a key factor in host-parasite relationships. The Zoological Society of Israel
6. ***Hawlana, H.** Z. Abramsky, and B.R. Krasnov (2006) The effect of ecological factors on patterns of host-parasite relationships. *EcoHealth ONE*. Forging collaboration between ecology and health. Madison, Wisconsin, USA

• **Reviewing Experience**

Israel Journal of Zoology

Functional Ecology

Behavioral Ecology and Sociobiology

• **Lectures and Presentations at Meetings and Invited Seminars not followed by Published Proceedings**

(a) Participants at conferences and meetings

1. 37th meeting of the Zoological Society of Israel, Beer-Sheva, Israel
2. The 9th European Ecological Congress (Eureco '02), Lund, Sweden
3. 39th meeting of the Zoological Society of Israel, Tel-Aviv, Israel
4. The 9th International Mammalogical Conference (IMC9). Sapporo, Japan
5. 42th meeting of the Zoological Society of Israel, Rechovot, Israel
6. EcoHealth ONE, Forging collaboration between ecology and health. Madison, Wisconsin, USA

(b) Invited lectures at universities and institutions

1. 1998 - Ein-Gedi Field studies center, Israel
2. 2005 - Department of Biology, Institute of Zoology, University of Bern, Switzerland
3. 2005 - Department of Ecology and Evolution, University of Lausanne, Switzerland
4. 2006- Evolutionary Ecology Group, Department of Biology, University of Utah, Salt Lake City, Utah, USA
5. 2006 - Disease Ecology Group, Institute of Ecology, University of Georgia, Athens, Georgia, USA
6. 2006 - Ecological Parasitology Group, Department Ecology, Evolution & Marine Biology, University of California, Santa Barbara, California, USA
7. 2006 - Disease Ecology and Evolution group, Department of Biology, Indiana University, Bloomington, Indiana, USA
8. 2006 - Department of Wildlife Ecology, Madison, University of Wisconsin, USA

• **Research Grants**

1. 2001-2003, Israel Ministry of Science, Krasnov, B. (IP), Z. Abramsky, I.S. Khokhlova, and **H. Hawlena**, The dynamics of host-ectoparasite interactions in the Negev region, and its epidemic implications to the local human population, \$60,000 for 3 years

2. 2004-2006, Israel Ministry of Science, Krasnov, B. (IP), Z. Abramsky, I.S. Khokhlova, and **H. Hawlena**, The dynamics and regulation mechanisms of ectoparasites in the Negev region, and its epidemic implications to the local human population, \$80,000 for 3 years

• **Additional Field Work**

1. 1995-1997 - Ranger at the Ein-Gedi Nature Reserve
2. 2000 - Field assistance in research on the influence of savannization and brush invasion on spider diversity in an arid environment in Las Cruces, New Mexico
3. 2005 - Field Project “the effect of predation risk on the chick body condition and parental care in a great tits-woodpecker system” with Professor Heinz Richner, Bern University, Switzerland

• **Community service and leadership**

1. 1992-1993 - Served as a leader in the education corps
2. 1995-1997 - Ranger at the Ein-Gedi Nature Reserve
3. 2000-2003 - Chief teaching assistant, Invertebrate and Vertebrate Zoology
4. 2004, 2006 - Assisted in the supervision of Dikla Bashary and Eyal Bloch, B.Sc., 3rd year
5. 2002-2005 - Supervision of two 1-year technicians and about ten field assistants on a variety of research projects

• **Referee details**

1. Prof. Zvika Abramsky - Ph.D supervisor. zvika@bgu.ac.il
2. Dr. Boris Krasnov - Ph.D supervisor. krasnov@bgu.ac.il
3. Dr. Serge Morand - a researcher that is familiar with my work. morand@ensam.inra.fr
4. Dr. Philippe Christe - a researcher that is familiar with my work. Philippe.Christe@unil.ch

• **Collaborators**

1. Dr. Amos Bouskila, Ben Gurion University, Israel – Game theory models
2. Prof. Berry Pinshow, Ben Gurion University, Israel – Effects of parasites on host physiology

3. Dr. Noga Kronfeld, Tel Aviv University, Israel – Effects of parasites on host physiology
4. Dr. Joëlle Gouy de Bellocq, Centre de Biologie et de Gestion des Populations Montferrier, France – Immune response to parasites
5. Dr. Katharina Dittmar de la Cruz, University of Wyoming, USA – Genetic structure of flea populations