

CURRICULUM VITAE AND LIST OF PUBLICATIONS

• **Personal Details**

Name: Michal Segoli

Date and place of birth: 15.10.1975, Jerusalem, Israel

Address and telephone number at work: Mitrani Department of Desert Ecology, The Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev, Midreshet Ben-Gurion 8499000, Israel, Tel: 08-6563488

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• **Education**

B.Sc. – 1997 and 2000-2001. Hebrew University of Jerusalem. Department of Life Sciences.

M.Sc. – 2002-2004. Ben-Gurion University of the Negev. Sede-Boqer. Albert Katz International School for Desert Studies. The Jacob Blaustein Institute for Desert Research (Ecology).

Names of advisors: Ally Harary and Yael Lubin.

Title of thesis: High investment in a single female: a male mating strategy in the white widow spider.

Ph.D. – 2004-2009. Ben-Gurion University of the Negev. Dept. of Life Sciences (Ecology).

Names of Advisors: Amos Bouskila, Ally Harari and Tamar Keasar.

Title of thesis: Joint parent-offspring control of brood size in a polyembryonic wasp.

• **Employment History**

2013-2014 Post-doctoral scholar. School of Public Health and Tropical Medicine, James Cook University, Cairns, Queensland, Australia.

2009-2012: Post-doctoral scholar. Dept. of Entomology and Center of Population Biology, U.C. Davis, California, U.S.A.

2004-2008. Teaching Assistant. Dept. of Life Sciences, Ben-Gurion University of the Negev.

2000-2001. Research Assistant: Dept. of Ecology, Systematics and Evolution (ESE). The Hebrew University of Jerusalem, Israel.

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

Honors, Citation Awards

2008: Zoological Society of Israel. Travel grant.

2007: Zoological Society of Israel, Annual meeting, Achva College, Israel. First prize for excellent presentation.

2007: Weizmann Institute of Science, Rehovot, Israel. The Aharon Katzir Center. Travel grant.

2007: Faculty of Agricultural, Food and Environmental Quality Sciences, The Hebrew University of Jerusalem, Rehovot, Israel. David Rosen Prize.

2006: Entomological Society of Israel, Annual meeting, Rehovot, Israel. Second prize for excellent presentation.

2005: Ben-Gurion University of the Negev, Israel. *Summa cum laude*, Master of Science in Desert Studies.

2004: The Jacob Blaustein Institute for Desert Research. Ben-Gurion University of the Negev, Sede-Boqer Campus, Israel. The Bona Terra Foundation prize for Excellence in Desert Studies.

2001: The Hebrew University of Jerusalem, Israel. Graduated with honors. B.Sc.

Fellowships

2009-2011: United States- Israel Binational Agricultural Research and Development.
Vaadia-BARD Postdoctoral Fellowship.

2009-2011: The Israel Science Foundation (ISF). Bikura Postdoctoral Fellowship.

2004-2008: Ben-Gurion University of the Negev. Kreitman Foundation Fellowship.

• **Scientific Publications**

Segoli, M, Hoffmann A.A; Lloyd J; Omodei G.J. and Ritchie S.A. The effect of virus-blocking *Wolbachia* on male competitiveness of the dengue vector mosquito, *Aedes aegypti*. PLoS NTG. In press

Segoli, M, & Rosenheim J.A. 2013. Limits to the reproductive success of two insect parasitoid species in the field. *Ecology*, 94:2498–2504.

Segoli, M; Stouthamer R., Stouthamer C. M., Rugman-Jones P. & Rosenheim J.A. 2013. The effect of *Wolbachia* on the lifetime reproductive success of its insect host in the field. *Journal of Evolutionary Biology*. doi: 10.1111/jeb.12264.

Segoli, M, & Rosenheim J.A. 2013. Spatial and seasonal variation in sugar availability for insect parasitoids in agricultural fields and consequences for reproductive success. *Biological Control*, 67:163–169.

Segoli, M, & Rosenheim J.A. 2013. The link between host density and egg production in a parasitoid insect: Comparison between agricultural and natural habitats. *Functional Ecology*, 27:1224–1232.

Keinan, Y; Kishinevsky M; **Segoli M**; Keasar T. 2012. Repeated probing of hosts: an important component of superparasitism. *Behavioral Ecology, Behavioral Ecology*, 23:1263-1268.

Morag, N; Bouskila A; Olga Rapp; **Segoli M**; Keasar T. & Harari A. R. 2011. The mating status of mothers and offspring sex affect clutch size in a polyembryonic parasitoid wasp. *Animal Behavior*, 81:865-870.

Rosenheim, J. A; Parsa S; Forbes A. A; Krimmel W. A; Law Y. H; **Segoli M**; Segoli M. M; Sivakoff F. J; Zaviezo T. & Gross K. 2011. Ecoinformatics for integrated pest management: expanding the applied insect ecologist's tool-kit. *Journal of Economic Entomology*, 104(2):331-342.

Segoli, M; Harari A.R; Rosenheim J.A; Bouskila A. & Keasar T. 2010. The evolution of polyembryony in parasitoid wasps. *Journal of Evolutionary Biology*, 23:1807-1819.

Segoli, M; Harari R. A; Bouskila A. & Keasar T. 2010. The effect of host starvation on brood-size in a polyembryonic parasitoid wasp. *Evolutionary Ecology Research* 12:259-267.

Segoli, M; Keasar T Bouskila A.& Harari A.R. 2010. Host choice decisions in the polyembryonic wasp *Copidosoma koehleri* (Hymenoptera: Encyrtidae). *Physiological Entomology* 35:40-45.

Segoli, M; Harari A. R; Keasar T & Bouskila A. 2009. Limited discrimination abilities mediate tolerance toward relatives in polyembryonic wasps. *Behavioral Ecology*. 20:1262-1267.

Segoli, M; Harari A. R; Bouskila A. & Keasar T. 2009. Host handling time in a polyembryonic wasp is influenced both by previous experience and by host state (parasitized or not). *Journal of Insect Behavior*. 22:501-510.

- Segoli, M;** Harari A. R; Bouskila A. & Keasar T. 2009. Brood size in a polyembryonic parasitoid wasp is affected by the relatedness among competing larvae. *Behavioral Ecology*. 20:761-767.
- Segoli, M;** Harari A. R; Bouskila A. & Keasar T. 2009. Developmental patterns in the polyembryonic wasp *Copidosoma koehleri*. *Arthropod Structure and Development*, 38:84-90.
- Segoli, M;** Lubin Y & Harari A. R. 2008. Frequency and consequences of damage to the male copulatory organ in a widow spider. *Journal of Arachnology*, 36: 533-537.
- Segoli, M;** Arieli R; Sierwald P; Harari R. A. & Lubin Y. 2008. Sexual cannibalism in the brown widow spider (*Latrodectus geometricus*). *Ethology*, 114: 279–286.
- Segoli, M;** Lubin Y; & Harari A. R. 2007. The effect of dietary restriction on lifespan in web-building spider males. *Evolutionary Ecology Research*. 9: 697-704.
- Segoli, M;** Harari A. R.& Lubin Y. 2006. Limited mating opportunities and male monogamy: a field study of white widow spiders (*Latrodectus pallidus*, Theridiidae). *Animal Behaviour*, 76:635-642.
- Keasar, T; **Segoli M;** Barak R; Steinberg S; Giron D; Strand M. R; Bouskila A & Harari A.R. 2006. Costs and consequences of superparasitism in the polyembryonic parasitoid *Copidosoma koehleri* (Hymenoptera: Encyrtidae). *Ecological Entomology*, 31:277-283.
- Segoli, M;** Maklakov A; Gavish E; Tzoorim I. & Lubin Y. 2004. The effect of previous foraging success on web-building behavior in the sheet-web spider, *Frontinellina cf. frutetorum* (Araneae, Linyphiidae). *Ethology Ecology and Evolution*. 16(4):291-298.
- Segoli, M;** Cohen T. & Werner L. 2002. A new lizard of the genus *Mesalina* from Mt. Sinai, Egypt (Reptilia: Squamata: Sauria: Lacertidae). *Faunistische Abhandlungen, Staatilches Museum fur Tierkunde Dresden* 15: 157 –176.

• Lectures and Presentations at Meetings and Invited Seminars

Invited plenary lectures at conferences/meetings

- 2011, **Segoli, M.** & Rosenheim J. What limits the reproductive success of *Anagrus* wasps in sulfur free vineyards? Ecological Pest Management Conference, Monterey, U.S.A.

Presentation of papers at conferences/meetings

2014. Segoli, M, Hoffmann A.A and Ritchie S.A. The effect of virus-blocking *Wolbachia* on male competitiveness of the dengue vector mosquito, *Aedes aegypti*. Annual meeting of the Entomological Society of Israel. Volcani institute, Israel
2012. **Segoli, M** and Rosenheim J. The link between egg production and host density in a parasitoid insect: Comparison between agricultural and natural habitats. International Congress of Zoology, Haifa, Israel
- 2011, **Segoli, M;** Rosenheim J. & Stouthamer R. The effect of *Wolbachia* on the lifetime reproductive success of a parasitoid wasp. Annual meeting of the Entomological Society of America, Reno, U.S.A.
- 2011, **Segoli, M;** Rosenheim J. & Stouthamer R. The effect of *Wolbachia* on the lifetime reproductive success of a parasitoid wasp. Annual meeting of the Zoological Society of Israel, Tel Aviv, Israel
- 2010, **Segoli, M;** Bouskila A; Harari A; Keasar T. & Jay Rosenheim. The evolution of polyembryony in parasitoids wasps, Theoretical Models in Ecology, Evolution and Behavior: Recent Advances and Conceptual Issues, Jerusalem, Israel
- 2010, **Segoli, M.** & Rosenheim J. What limits the reproductive success of insect parasitoids in the field? Annual meeting of the Entomological Society of America, San Diego, U.S.A.

- 2010, **Segoli, M.** & Rosenheim J. What limits the reproductive success of insect parasitoids in the field? Annual meeting of the Zoological Society of Israel, Jerusalem, Israel
- 2009, **Segoli, M;** Keasar T; Harari A. & Bouskila A. Limited ability for kin discrimination may result in tolerance toward competitors in polyembryonic wasps, The Asia Pacific meeting of the Economic Science Association, Haifa, Israel
- 2009, **Segoli, M;** Bouskila A; Harari A; Keasar T. & Jay Rosenheim, The evolution of polyembryony in parasitoid wasps Western Evolutionary Biology Meeting, Berkeley, U.S.A. (Oral presentation).
- 2008, **Segoli, M;** Bouskila A; Harari A; Keasar T. & Jay Rosenheim. The evolution of polyembryony in parasitoid wasps, Annual meeting of the Entomological Society of Israel, Oranim, Israel
- 2008, **Segoli, M;** Bouskila A; Harari A. & Keasar T. Tolerance toward relatives in polyembryonic parasitoid wasps may be mediated by limited discrimination ability, Annual meeting of the Zoological Society of Israel, Michmoret, Israel
- 2008, **Segoli, M;** Bouskila A; Harari A. & Keasar T. Females of a polyembryonic parasitoid wasp do not avoid allo-parasitized hosts, International Society for Behavioural Ecology, Cornell, U.S.A.
- 2007, **Segoli, M;** Harari A; Bouskila A. & Keasar T. Joint parent-offspring control of brood size in a polyembryonic wasp, Behavioral Modeling in Ecology & Evolution, Eighth Symposium in Memory of Merav Ziv, Midreshet Ben-Gurion, Israel
- 2007, **Segoli, M;** Bouskila A; Harari A. & Keasar T. Offspring control of brood size in a polyembryonic wasp, Annual meeting of the American Society for Animal Behavior, Burlington, U.S.A.
- 2007, **Segoli, M;** Bouskila A; Harari A. & Keasar T. Annual meeting of the Zoological Society of Israel, Joint parent-offspring control of brood size in a polyembryonic wasp, Achva Collage, Israel.
- 2006, **Segoli, M;** Bouskila A; Harari A; Kfir R. & Keasar T. Evidence for superparasitism and asymmetrical larval competition in a field population of a polyembryonic parasitoid, Annual meeting of the Entomological Society of Israel, Rechovot, Israel
- 2006, **Segoli, M;** Bouskila A; Harari A. & Keasar T. Brood development in a polyembryonic parasitoid: the effect of host starvation, Annual meeting of the Zoological Society of Israel, Raanana, Israel
- 2006, **Segoli, M;** Arieli R; Harari A. R; Lubin Y. & Sierwald P. Eat your mate for several reasons: sexual cannibalism in widow spiders, International Society for Behavioral Ecology. Tours, France
- 2005, **Segoli, M;** Harari A. R. & Lubin Y. High investment in a single female: male mating strategy in the white widow spider, Annual meeting of the Arachnological Society of Israel, Midreshet Ben-Gurion, Israel
- 2004, **Segoli, M;** Harari A. R. & Lubin Y. Constraints on male reproductive success in a widow spider, International Society for Behavioral Ecology, Jyväskylä, Finland
- 2004, **Segoli, M;** Gavish E; Maklakov A; Tsurim I. & Lubin Y. Do well-fed spiders invest less in web construction? Annual meeting of the Zoological Society of Israel, Haifa, Israel
- 2004, **Segoli, M.** Costs of mating in a widow spider, Recent Developments in Arthropod Ecology and Evolution, Fifth Symposium in Memory of Merav Ziv, Midreshet Ben-Gurion, Israel
- 2003, **Segoli, M.** Constraints on male reproductive success in the white widow spider (*Latrodectus pallidus*), Annual meeting of the Zoological Society of Israel, Midreshet Ben-Gurion, Israel

Abstracts

- Segoli, M;** Bouskila A; Harari A. R. and Keasar T. 2009. Limited ability for kin discrimination may result in tolerance toward competitors in polyembryonic wasps. *Israel Journal of Ecology & Evolution* 55:172-73.
- Segoli, M;** Bouskila A; Harari A. R; Kfir R. and Keasar T. The Evolution of polyembryony in parasitoid wasps. *Israel Journal of Entomology*, In press.
- Segoli, M;** Bouskila A; Harari A. R; Kfir R. and Keasar T. 2007. Evidence for superparasitism and asymmetrical larval competition in a natural population of a polyembryonic parasitoid. *Israel Journal of Entomology*, 37:414-415.
- Segoli, M;** Gavish E; Maklakov A; Tsurim I. and Lubin Y. 2005. Do well-fed spiders invest less in web construction? *Israel Journal of Zoology*, 51:75.
- Segoli, M;** Harari A.R. and Lubin Y. 2004. Constraints on male reproductive success in the white widow spider, (*Latrodectus pallidus*, Theridiidae). *Israel Journal of Zoology*. 50:120-121.

Seminar presentations at universities and institutions

- 2013, CSIRO and University of James Cook, Townsville, Queensland, Australia.
- 2011, University of California, Center of Population Biology, Davis, U.S.A.
- 2011, Open University, Ra'anana, Israel.
- 2011, Mitrani Department of Desert Ecology, Ben-Gurion University of the Negev, Sede-Boqer, Israel.
- 2011, Department of Zoology, Tel Aviv University, Tel Aviv, Israel.
- 2011, Department of Biology, University of Haifa-Oranim, Kiryat-Tivon, Israel.
- 2010, Faculty of Agriculture, The Hebrew University of Jerusalem, Rehovot Israel.
- 2010, Department of Entomology, University of California, Davis, U.S.A.
- 2010, Center of Population Biology, University of California, Davis, U.S.A.
- 2009, Department of Evolution, Systematics and Ecology, The Hebrew University, Jerusalem, Israel.

• Research Grants

- 2006: The Israeli Science Foundation. Tamar Keasar, Amos Bouskila, Ally Harari, Research grant- involved in the writing of the application. Title: Interactive parent-offspring control over brood size in polyembryonic parasitoid wasp
- 2005: Faculty of Agricultural, Food and Environmental Quality Sciences, The Hebrew University of Jerusalem, Rehovot, Israel. Baron De-Hirsh fund. Research grant.
- 2003: Sigma Xi Scientific Research Society. Research grant. Title: A risky mating: Constraints on male reproductive success in a widow spider.
- 2001: The Biblical Zoo, Jerusalem. The Fund in the name of Prof. Shulov, for Research on Animals in Captivity in the Zoo. Research grant.