

Ariel D. Chipman, Ph.D.
Curriculum Vitae (updated 29.1.19)

Date and Place of Birth: 1968, Boston, USA
Immigrated to Israel: 1971
Nationality: Israel/USA
Israeli ID: # 01344080-5
Military Service: IDF 1986-1991. Released at the rank of Lieutenant.
Family status: Married with 2 sons.
Work address: Department of Ecology, Evolution & Behavior
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EDUCATION

7/1995 B.Sc. *cum laude* (top 5%) in Biology at the Hebrew University of Jerusalem.
7/1998 M.Sc. in Biology as part of the direct Ph.D. program at the Hebrew University of Jerusalem.
1995-2001 Ph.D. in Evolutionary Biology at the Hebrew University of Jerusalem.

RESEARCH EXPERIENCE AND EMPLOYMENT

2001-2006 Post doctoral research in Prof. Michael Akam's lab at the University of Cambridge, UK. *The evolution of arthropod segmentation*, studying the expression and function of early segmentation genes in basal insects and in centipedes.
2006-2007 Research Associate at National Institute of Biotechnology in the Negev, Be'er Sheva. *Developing the crayfish Cherax quadricarinatus as a model for embryological research.*
2007-2014 Senior lecturer at The Department of Evolution Systematics and Ecology and academic curator of the aquatic invertebrate collection
The Hebrew University of Jerusalem
2014-2015 Visiting Researcher, the National Museum of Natural History, The Smithsonian Institute, Washington DC
2014- Associate Professor

TEACHING EXPERIENCE

2007-2009 Lecturer in first year undergraduate introductory lab, "From Cell to Organism" (histology, invertebrate zoology), The Institute of Life Sciences, The Hebrew University of Jerusalem.
2008,2012,2019 Tutor for first year honors program "Etagar", The Institute of Life Sciences, The Hebrew University of Jerusalem.
2010-present "An introduction to Organismic Biology". First year undergraduate course, lecture + lab (incorporating the former "From Cell to Organism" lab).
2009-2018 "Evolution of the Animal Kingdom" – advanced level course (M.Sc. and third year students) – on alternate years with "Evolution and Development"
2012-2019 "Evolution and Development" – advanced level seminar (M.Sc. and third year students). – on alternate years with "animal Evolution"

- 10/2012 Coordinator of special week-long course “The Taxonomy and Diversity of Israeli Spiders”, funded by the Israel Taxonomy Initiative, and given by Dr. Robert Raven from the University of Queensland, Australia.
- 2014 “Introduction to Evolutionary Biology”. Required second year course.
- 6/2017 Coordinator of special week-long course “The Taxonomy and Ecology of Israeli Harvestmen”, funded by the Israel Taxonomy Initiative, and given by Dr. Prashant Sharma from the University of Wisconsin.

RECENT GRANTS AND AWARDS

- 2011-2015 Israel Science Foundation Individual Research Grant: “Region specific factors involved in blastoderm patterning in the milkweed bug *Oncopeltus fasciatus*. 156,000 NIS per annum for four years.
- 2012 Grant from the Israel Taxonomy Initiative (together with Efrat Gavish-Regev and Yael Lubin) to host Prof. Robert Raven from the Queensland Museum, Australia as a guest teacher in a spider taxonomy course.
- 2013-2016 Grant from Einstein-Stiftung together with Prof. Gerhard Scholtz from Humboldt University, Berlin: “The evolution of arthropod axis elongation”. Total 188,500 Euro over three years.
- 2013-2016 Grant from the NSF-BSF program for Integrative and Comparative Organismic Biology together with Prof. Lisa Nagy (university of Arizona, Tucson) and Dr. Terri Williams (Trinity College, Connecticut): “Generating Complexity: integrating experimental and computer modeling approaches to link genes and cell behavior in arthropod segmentation”. Total \$200,000 over three years.
- 2013 Farkash-Himsley prize for excellence in teaching and research for a young faculty member at the Silberman Institute of Life Sciences.
- 2014 Milken Prize – Rector’s prize for consistent excellence in teaching.
- 2016-2020* Israel Science Foundation Individual Research Grant: “The evolution of long-germ segmentation in insects”. 326,000 NIS per annum for four years.

* Currently active

GRADUATE STUDENTS SUPERVISED

M.Sc. students

- Jonathan Ben-David – 2007-2010 Gap gene interactions in the blastoderm of the milkweed bug *Oncopeltus fasciatus*.
- Michael Birkan – 2008-2011 Head patterning in the milkweed bug, *Oncopeltus fasciatus*
- Anat Weisbrod – 2009-2011 Characterizing the terminal system during the embryogenesis of the milkweed bug *Oncopeltus fasciatus*
Completed *summa cum laude*
- Tal Naggan Perl – 2011-2013 Interactions of genes involved in terminal patterning
- Neta Dor (Arazy) – 2012-2015 Maternal effects on developmental ecology of the palm borer beetle *Coccotripes dactyliperda*
- Neta Livne – 2013-2016 An RNA-seq approach to identifying novel genes in *Oncopeltus fasciatus*
- Reut Stahi – 2014-2016 Blastodermal segmentation in *Oncopeltus*
- Oren Lev – 2015-2017 Segmentation in the isopod crustacean *Porcellio scaber*
- Tamir Partoush 2018- Manipulation of control regions in segmentation genes

Ph.D. students

- Tzach Auman – 2013-2018 The evolution of axial elongation in arthropods

Anastasia Novikova – 2013- Blastoderm interactions in *Oncopeltus fasciatus*
Igor Armiach 2016- Systematics of the spider family Lycosidae in Israel (co-supervised with Dr. Efrat Gavish-Regev)
Oren Lev 2018- The evolution of tagmatization in arthropods

Post-doctoral researchers

Dr. Barbara Vreede 2014-2016 Comparative genomics and computational approaches to arthropod segmentation
Dr. Ana Turchetti-Maia 2017 Systematics of Cephalopoda in the eastern Mediterranean and the Red Sea

ACADEMIC SERVICES

2015- Chair of the Dept. Of Ecology, Evolution & Behavior, and head of the EEB teaching program.
2016- Member of the screening committee of the Institute of Life Sciences.
2018- Chair of the screening committee of the Institute of Life Sciences.