

## Adi Behar , PhD - LIST OF PUBLICATIONS

### 1. Doctoral Dissertation:

**Bacterial Populations Associated with *Ceratitits capitata*, the Mediterranean fruit fly: Diversity, Structure, Distribution and Impact on Host Fitness.** Mentors: Prof. B. Yuval and Prof. E. Jurkevitch. 2008. Chapter #4.1, 4.2; Articles # 5.1, 5.2, 5.4, 5.5, 5.6, 5.8 & 5.9.

### 2. Books:

### 3. Books Edited:

### 4. Chapters in Collections:

- 4.1. **Behar A<sup>S</sup>**, Ben-Yosef M<sup>S</sup>, Lauzon C.R<sup>C</sup>, Yuval B<sup>PI</sup> and Jurkevitch E<sup>PI</sup>. 2008. Structure and function of the bacterial community associated with the Mediterranean fruit fly. In: *Insect Symbiosis Vol. 3* (ed. Bourtzis K, Miller TA). CRC press, New york. (\*- equal contribution)
- 4.2. Yuval, B<sup>PI</sup>, Ben-Yosef, M.<sup>S</sup>, Ben-Ami, E.<sup>S</sup>, **Behar, A.<sup>S</sup>**, and E. Jurkevitch, E<sup>PI</sup>. 2008. The role of microorganisms in enhancing reproductive success of the Mediterranean fruit fly *Ceratitits capitata* (Diptera: Tephritidae). In: 7th meeting of the working group on fruit flies of the Western hemisphere (eds P.M. Montoya Gerardo, F. Diaz Fleischer & S. Flores Breceda), pp. 90-92, Mazatlan, Mexico.

### 5. Articles:

- 5.1. **Behar A<sup>S</sup>**, Yuval B<sup>PI</sup> and Jurkevitch E<sup>PI</sup>. 2005. Enterobacteria-mediated Nitrogen Fixation in Natural Populations of the Mediterranean Fruit Fly *Ceratitits capitata*. Molecular Ecology 14: 2637-2643. (Fast-track) 6.232; 11/150 (Ecology);92.
- 5.2. **Behar A<sup>S</sup>**, Jurkevitch E<sup>PI</sup> and Yuval B<sup>PI</sup>. 2008. Bringing back the fruit into fruit fly-bacteria interactions. Molecular Ecology 17: 1375-1386. 6.232; 11/150 (Ecology);50.
- 5.3. Lampert Y<sup>S</sup>, Kelman D<sup>S</sup>, Nitzan Y<sup>S</sup>, Dubinsky Z<sup>PI</sup>, **Behar A<sup>S</sup>** and Hill RT<sup>PI</sup>. 2008. Phylogenetic diversity of bacteria associated with the mucus of Red Sea corals. FEMS microbial ecology 64: 187-198. 3.530; 37/123(Microbiology);35. (Conducted all bacterial phylogeny analyses) .
- 5.4. **Behar A**, Yuval B<sup>PI</sup> and Jurkevitch E<sup>PI</sup>. 2008. Gut bacterial communities in the Mediterranean fruit fly (*Ceratitits capitata*) and their impact on host longevity. Journal of Insect Physiology 54: 1377–1383.2.267; 13/94 (Entomology);50.
- 5.5. **Behar A<sup>S</sup>**, Yuval B<sup>PI</sup> and Jurkevitch E<sup>PI</sup>. 2008. Community structure of the Mediterranean fruit fly microbiota: Seasonal and spatial sources of variation. Israel Journal of Ecology and Evolution 54: 181-191. 0.727; 125/150(Ecology);8
- 5.6. Ben –Yosef M<sup>S</sup>, **Behar A<sup>S</sup>**, Jurkevitch E<sup>PI</sup> and Yuval B<sup>PI</sup>. 2008. Bacteria-diet interactions affect longevity in the Medfly - *Ceratitits capitata*. Journal of Applied Entomology 132: 690–694.1.517; 30/94 (Entomology);16.

- 5.7. **Behar A**<sup>PD</sup>, McCormick LJ<sup>T</sup>, Perlman SJ<sup>PI</sup>. 2010. *Rickettsia felis* infection in a common household insect pest, *Liposcelis bostrychophila* (Psocodea: Liposcelididae). Applied and Environmental Microbiology 76: 2280–2285. 3.823 31/123 (Microbiology):27.
- 5.8. Yuval B<sup>PI</sup>, Ben-Ami E<sup>S</sup>, **Behar A**<sup>S</sup>, Ben-Yosef M<sup>S</sup> and Jurkevitch E<sup>PI</sup>. 2013. The Mediterranean fruit fly and its Bacteria – Potential for Improving SIT Operations. Journal of Applied Entomology 137: 39-42. 1.276; 29/83 (Entomology):6.
- 5.9. Aharon Y<sup>S</sup>, Pasternak Z<sup>C</sup>, Ben Yosef M<sup>S</sup>, **Behar A**<sup>S</sup>, Lauzon C<sup>C</sup>, Yuval B<sup>PI</sup>, Jurkevitch E<sup>PI</sup>. (2013). Phylogenetic, metabolic and taxonomic diversity shape the Mediterranean fruit fly microbiota across ontogeny. Applied and Environmental Microbiology 79: 303-313. 3.823 31/123 (Microbiology):10.
- 5.10. Shelef O<sup>S</sup>, Friedman AL<sup>C</sup>, **Behar A**<sup>C</sup>, Helman Y<sup>C</sup>, Rachmilevitch S<sup>PI</sup>. (2013) Tri-party underground symbiosis between weevil, bacteria and a desert plant. PLoS ONE 8(11):e76588. 3.057 11/63 (Multidisciplinary Sciences);3
- 5.11. Molad T<sup>PI</sup>, Fleiderovitz L<sup>T</sup>, Leibovitz B<sup>C</sup>, Wolkomirsky R<sup>C</sup>, **Behar A**<sup>C</sup>, Markovics A<sup>PI</sup>. (2015). Differentiation between Israeli *B. bovis* vaccine strain and field isolates. Veterinary Parasitology 208: 159-168. 2.242 10/138 (Veterinary sciences);1
- 5.12. Yang Q<sup>PI</sup>, Kučerová Z<sup>C</sup>, Perlman S<sup>C</sup>, Opit G<sup>C</sup>, Mockford E<sup>C</sup>, **Behar A**<sup>PD</sup>, Robinson W<sup>T</sup>, Stejskal V<sup>T</sup>, Li Z<sup>PI</sup>. (2015). Morphological and molecular characterization of a sexually reproducing colony of the booklouse *Liposcelis bostrychophila* (Psocodea: Liposcelididae) Scientific Reports 5:10429. 5.228 7/63 (Multidisciplinary Sciences);2
- 5.13. Molad T<sup>PI</sup>, Erster O<sup>C</sup>, Fleiderovitz L<sup>T</sup>, Roth A<sup>T</sup>, Leibovitz B<sup>C</sup>, Wolkomirsky R<sup>C</sup>, Mazuz ML<sup>C</sup>, **Behar A**<sup>C</sup>, Markovics A<sup>PI</sup>. (2015). Molecular characterization of the Israeli *B. bigemina* vaccine strain and field isolates. Veterinary Parasitology 212: 147-155. 2.242 10/138 (Veterinary sciences).
- 5.14. **Behar A**<sup>PD</sup>, Fookes M.C<sup>C</sup>, Goren S.<sup>T</sup>, Thomson N.R.<sup>C</sup>, Cohen D<sup>PI</sup>. (2015). Whole genome analysis to detect potential vaccine-induced changes on *Shigella sonnei* genome. Vaccine 33: 2978-2983. 3.413 36/127 (Medicin, Research & Experimental)
- 5.15. Golender N<sup>T</sup>, Brenner J.<sup>PI</sup>, Valdman M.<sup>T</sup>, Khinich E.<sup>C</sup>, Bumbarov V<sup>T</sup>, Panshin A.<sup>T</sup>, Edri N.<sup>C</sup>, Pismanik S.<sup>C</sup>, **Behar A**<sup>PI</sup>. (\*- equal contribution) (2015). Malformations Caused by *Shuni* Virus in Ruminants, Israel, 2014–15. Emerging Infectious Diseases 21(12): 2267-68. 6.994 4/83 (Infectious Diseases)
- 5.16. Baker K.S<sup>PD</sup>, Dallman T.J.<sup>C</sup>, **Behar A**<sup>PD</sup>, Weill F.X.<sup>C</sup>, Sobel J<sup>C</sup>, Fookes M.C.<sup>T</sup>, Valinsky L.<sup>C</sup>, Gal-Mor O.<sup>C</sup>, Connor T.<sup>PD</sup>, Nissan I.<sup>C</sup>, Bertrand S<sup>C</sup>, Parkhill J.<sup>C</sup>, Jenkins C.<sup>C</sup>, Cohen D.<sup>C</sup>, Thomson N.R.<sup>PI</sup> (2016). Travel- and Community-Based Transmission of Multidrug-Resistant *Shigella sonnei* Lineage among International Orthodox Jewish Communities Emerging Infectious Diseases 22(9): 1545-1553. 6.994 4/83 (Infectious Diseases).
- 5.17. Brenner J<sup>PI</sup>, Yanase T<sup>C</sup>, Kato T<sup>T</sup>, Khinich E<sup>C</sup>, Paz R<sup>T</sup>, Tsuda T<sup>C</sup>, **Behar A**<sup>PI</sup>. (2016).  $\alpha$ -Simbu serogroup profile in cattle: evidences of not yet reported *Simbu* viruses in Israel.

Accepted to Veterinary Records. 1.741 45/138 (Veterinary sciences).

Submitted Manuscripts:

- 1) **Behar A<sup>PD</sup>**, Baker K<sup>PD</sup>, Bassal R<sup>C</sup>, Valinsky L<sup>C</sup>, Thomson NR<sup>C</sup>, Cohen D<sup>PI</sup>. Microevolution and ethnic-related patterns of *S. sonnei* transmission within cyclic outbreaks of *S. sonnei* shigellosis in Israel. Submitted to Emerging Infectious Diseases, Sep 2016.
- 2) **Behar A<sup>PI</sup>**, Ginsburg A<sup>T</sup>, Rot A<sup>T</sup>, Peri- Markovics M<sup>C</sup>, Brenner J<sup>C</sup>. *Culicoides* populations and their effect on *Simbu* group viruses transmission in Israel. Submitted to Veterinary Parasitology, Sep 2016.

In preparation:

- 1) Mockford EL<sup>PI</sup>, Perlman S<sup>C</sup>, **Behar A<sup>PD</sup>**. Characterization of a new *Liposcelis* spp. (Psocoptera: Liposcelididae).