

Rakefet Sharon, Ph.D

1961	Born in Kibutz Sha'ar Hagolan, Israel
1973 -1978	High-school education in Bik'at Kinarot
1978 – 1979	Pre-military-service- youth movement guide
1980 - 1982	Military service, Sargent
Marital status:	Married + 4

University Education

1988 – 1991	B.Sc. Agriculture, The Hebrew University of Jerusalem, Israel, Faculty of Agriculture.
1992 – 1995	M.Sc. Ecozoology, Technion- Israel Institute of Technology, Haifa, Israel. Department of Biology Title of thesis: The Reproductive system of the female salamander <i>S.S.infraimmaculata</i> and its Adaptation to Water Availability in Different Habitats. Supervision by: Prof. M. Warburg and Prof. G. Dgani
1996 – 2001	Ph.D. Ecology, Technion- Israel Institute of Technology, Haifa, Israel. Department of Biology Title of thesis: Contribution of Invertebrate Groups to Leaf Litter Decomposition in Oak-Wood Soil. Supervision: Prof. M. Warburg, Prof. G. Dgani and Prof. Z. Arad
2003 – 2004	Post-Doc , ARO, The Volcani Center, Beit Dagan, Israel. Department of Entomology with Dr. Ally Harari Research subject: The effect of host plant volatiles on the attractant behavior of <i>Lobesia botrana</i> (Lepidoptera)

Additional Training

1984-1988	Aikido teacher, DAN2, Yoshinkan Dojo, Tokyo, Japan
2004	Pests inspector, Extension service, Ministry of Agriculture
2005	Biological Control Course, Bio-Bee
2004-2005	Teaching teachers certificate, Mofet institute
2009	Permaculture Design Course
2011	Wine Aroma Analysis and Terruar, CFPPA, Beaune, France

Positions Held and Academic Status

- 2005 to date Research Scientist at the MIGAL- Galilee Technology Center,
Northern R&D, Kiryat Shmona, Israel
- 2009 Promoted to Senior Scientist in Ohalo Academic College of Education.
- 2007-2011 Head of Science & environment education unit- Ohalo Academic
College of Education.
- 2011- Academic consultant of oenology studies

Training / Teaching Experience

- 1993-2000 Teaching Assistant at the Technion, Israel Institute of Technology,
Haifa, Israel.
- 2000- to date Lecturer at Ohalo Academic College of Education- Zoology, Ecology,
Biological control, Entomology, Environmental Education.
- 2006- to date Lecturer in growers courses for the Ministry of Agriculture-
Pomegranate pests, mealybugs dynamics and control, grapevine pests control,
disease vectors, disease epidemiology and dynamic.
- 2008- to date Lecturer in growers courses for the organic organization- trap plants.

Student's guidance:

- Ariel Kuperberg, M.Sc. title of thesis: "Potential trap plant for the Aphid *Aphis gossypii* in cucumber organic crop". In progress. Guidance with Dr. Liora Shaltiel, MOP Zaphon and Prof.. Moshe Enbar, Haifa University.
- Raz Reut, M.Sc. title of thesis: "Effect of Vitex plant extracts on survival of Phytoplasma bacteria in the vector and the host-plant". In progress. Guidance with Dr. Sgula Mutzafi, MIGAL Institute.
- Tamar Sokolsky, M.Sc. title of thesis: "The spatial and temporal dispersing of vine mealybugs effect on GLRaV-3 virus spreading in vineyards". In progress. Guidance with Dr. Yafit Cohen, ARO, The Volcani Center.

Membership in Scientific and Agricultural Committees

- 2006 to date The MIGAL- Galilee Technology Center, Northern R&D vine yard
research management
- 2007 -2011 Academic council, Ohalo academic college

Editorial Responsibilities

- 2010 Reviewer of manuscripts for Journal of Applied Entomology

2011 Reviewer of manuscripts for *Entomologia Experimentalis et Applicata*

Awards and Scholarships

- 1992-1995 Recipient of the M.Sc. Scholarship from the Technion- Israel Institute of Technology for excelled students.
- 1996-2000 Recipient of the Ph.D. Scholarship from the Technion- Israel Institute of Technology for excelled students.
- 2003 Recipient of the Blaustein Postdoctoral scholarship, Ben Gurion University of the Negev. (Declined)
- 2010-2012 BARD Canada grant. Title: Microbial symbionts of grape pests and their role in mediating interactions with plant pathogens and natural enemies.

LIST OF PUBLICATIONS

A- Articles in reviewed journals

1. Peled Y. Bar-Shalom O. and **Sharon R.** (2011) Characterization of Pre-service Teachers' Attitude to Feedback in a Wiki-environment Framework. *The Internet and Higher Education* (exepcted for publication)
2. **Sharon R.**, Peles S., Gordon D. and Harari A.R. (2010) Intraspecific attraction and host tree selection by adult *Capnodis tenebrionis*. *Israel Journal of Plant Sciences* 58:53-60.
3. **Sharon R.**, Zahavi T., Soroker V., Harari A. R. (2009). The effect of grape vine cultivars on *Lobesia botrana* (Lepidoptera: Tortricidae) population levels. *Journal of Pest Science* 82(2): 187-193.
4. Cohen M., Yeheskeli-Hayon D., Warburg M. R., Davidson D., Halevi G. & **Sharon R.** (2006). Differential growth identified in salamander larvae half-sib cohorts: a survival strategy? *Development, Growth & Differentiation* 48, p 537-548.
5. Cohen M., Flam R., **Sharon R.**, Ifrach H., Yeheskely-Hayon D. & Warburg M. (2005). The Evolutionary Significance of Intra-cohort Cannibalism in Larvae of a Xeric Habitat Salamander: An Inter-cohort Comparison. *Current Herpetology* 24 (2): 55-66
6. **Sharon R.**, Soroker V., Wesley D., Zahavi T., Harari A.R., & Weintraub P.G. (2005). *Vitex agnus-castus* is a preferred host plant for *Hyalesthes obsoletus*. *J. Chemical Ecol.* 31: 1051-1063.
7. **b. Sharon, R.**, Zahavi T., Soroker V. and Harari A. (2003). Attraction of *Lobesia botrana* to grapevine cultivars: A field study. *Phytoparasitica* 31:305-306 .
8. Orenstein S., Zahavi T., Nestel D., **Sharon R.** Barkalifa M and Weintraub P.G.. (2003). Spatial dispersion patterns of potential leafhopper and planthopper (Homoptera) vectors of phytoplasma, and their associated phytoplasmas, in

wine vineyards. *Ann. appl. Biol.* 142:341-348.

9. **Sharon, R.**, Degani, G. and Wargurg, M.R. (2001). Comparing the soil macrofauna in two oak wood forests: does community structure differ under similar ambient conditions?. *Pedobiologia* 45: 355-366
10. **Sharon, R.**, Degani, G. and Wargurg, M.R. (2000). Ovarian cycle pattern of female *Salamandra salamandra infraimmaculata* in two habitats in Northern Israel. *J. Herpetol.* 34(3):463-465
11. Degani G., **Sharon R.** and Warburg M.R. (1997). Ovarian steroid levels in *Salamandra salamandra infraimmaculata* during the reproductive cycle. *Gen. Comp. Endocrinol.* 106:356-360
12. **Sharon, R.**, Degani, G. and Wargurg, M.R. (1996). Oogenesis and the ovarian cycle in *Salamandra salamandra infraimmaculata* (pmphibia; Urodela; Salamandridae), in fringe areas of the taxon's distribution. *J. Morphol.* 231:149-160

B- Professional journals in Hebrew Articles in non-reviewed journals

1. **Sharon R.**, Peles S., Sofer-Arad C., Noi M., Lahv C. and Draishpon Y. (2012). Environmental friendly control of *Aonidiella aurantii* and *Aonidiella orientalis* in Mango plantation. *Alon Hanotea* 66: 20-23
2. **Sharon R.**, Sokolski T., Sapir G., Cohen Y., Harari A. and Harcavi A., Zahavi T. (2011) Presence of the vine mealybug in young vineyards. *Alon Hanotea* 65: 25-28
3. T. Zahavi, V. Naor, R. Brodoloy, M. Mawassi, G. Sapir, **R. Sharon** (2011). Vine recovery from the yellows disease. *Alon Hanotea* 65: 29-33
4. **Sharon, R.**, Akunis O., Holand D., Ytzhaki N., Hatib K. and Tzori-Fain E. (2010). Net cover against fruit pests in pomegranate and persimmon orchards. *Alon Hanotea* 64:16-20.
5. **Sharon R.**, Peles S., Peretz S. and Harari A. (2009). Mating disruption and net cover methods against *Cryptoblabes gnidiella* (Pylalidae) and *Lobesia botrana* (Tortricidae) in pomegranate orchards. *Yevul Sie- Journal of Advanced Agriculture* 39:24-30.
6. **Sharon R.**, Sela L., Peretz S., Peles S. and Harari A. (2008) Pomegranate pests. *Haklaei Israel* 36: 34-37.
7. **Sharon R.**, Soroker V., Harari A. and Zahavi T. (2008) *Vitex agnus castus* as trap plant in Push and pull strategy to reduce the Yellows disease vector population. *Journal of the vine council* 4:22-23.
8. **Sharon R.**, Zahavi T., Soroker V., Harari A. and Weintroub P. (2006). *Vitex agnus castus* as trap plant to reduce *H. obsoletus* population. *Journal of the Organic and Biology Agriculture Organization* 8:23-25

C- Articles of symposia proceedings (indicated with * when reviewed).

1. Cohen Y., **Sharon R.**, Sokolski T., Zahavi T. (2011). Modified Hot-Spot analysis for spatio-temporal analysis: a case study of the leaf-roll virus expansion in vineyards.

2. *Peled Y., Bar-Shalom O., **Sharon R.** (2011) Characterization of Pre-service Teachers' Attitude to Feedback in a Wiki-environment Framework. SITE 2011--Society for Information Technology & Teacher Education International Conference, Nashville, Tennessee, USA; March 7-11, 2011
3. *Zahavi T., **Sharon R.**, Mawassi M. and Naor V. (2009). Long term effects of stolbur phytoplasma on grapevines in Israel. *ICVG 16th Meeting of the International Council for the Study of Virus and Virus-like Diseases of the Grapevine. Dijon, France*
4. *Zahavi T., Peles S., Harari A., Soroker V. and **R. Sharon** (2007) Push and pull strategy to reduce *H. obsoletus* population in vineyards by *Vitex agnus castus* as trap plant. *Bulletin of Insectology* **60** (2): 297-298
5. ***Sharon, R.**, Degani, G. and Wargurg, M.R. (1999). Contribution of different soil macro-invertebrate taxa to forest leaf litter decomposition rate as affected by season. *6th IMSMTC Barcelona, Spain. 198-200.*
6. **Sharon, R.**, Degani, G. and Warburg, M.R. (1996). Environmental effects on reproduction in *Salamndra salamndra infraimmaculata* in north Israel. *Six Internat. Con. Isr. Ecol. Envir. Qual. Scien. VI B:527-529.*

D- Abstracts

1. P.G. Weintraub¹, T. Zahavi², R. Sharon³ (2011) Management of Phytoplasmas and their Auchenorrhyncha Vectors. *The 59th Annual Entomological Society of America meeting in Reno, Nevada.*
2. Martinez, J.-J. I., Riner, S., Sofer-Arad, K., Margalit, S., Zahav, T. & **Sharon, R.** (2011). The impact of management and geographical region on the ants' fauna in organic vineyards, and their interactions with *Planococcus ficus*. *The 30th Congress of The Entomological Society of Israel: p 83 (Hebrew).*
3. **R. Sharon**, R. Raz, A. Harari, V. Naor, S. Masaphy, M. Dafni-Yalin, G. Sapir, T. Zahavi (2011) Can *Hyalesthes obsoletus* acquire Phytoplasma from vines and become infectious? *IOBC Integrated Protection and Production in Viticulture pp*
4. T. sokolski, Y. Cohen, T. Zahavi, G. Sapir, and **R. Sharon** (2011) Can Leafroll infestation be predicted? *IOBC Integrated Protection and Production in Viticulture pp*
5. **Sharon R.**, Soroker V., Zada A., Anshelevich L., Raz R., Fefer D., Harari A. and Zahavi T. (2011). *Vitex agnus castus* derived component attract *Hyalesthes obsoletus*- the vector of grapevine phytoplasma. *Global Conference on Entomology-(GCE), Chiang Mai, Thailand.*
6. **Sharon R.**, Kdoshim R., Sokolski T., Egozi A., Zahavi T., Harari A. (2010) Searching strategy of *Cryptolaemus montrouzieri* based on the plant visual cue and the semiochemical of the pests. *The Entomological society of Israel, 29 meeting, Abstract book pp 66*
7. **Sharon R.**, Zahavi T. Mendel Z., Protasov A., Kdoshim R. and Harari A. (2009). Mating disruption trails of the vineyard mealybug population in Israel. *IOBC Integrated Protection and Production in Viticulture.*
8. T. Zahavi, S. Peles, A. Harari, V. Soroker, **R. Sharon** (2007) Push and pull

strategy to reduce *H. obsoletus* population in vineyards by *Vitex agnus castus* as trap plant. *Bulletin of Insectology* 60 (2): xxx-xxx, ISSN 1721-8861

9. **Sharon R.**, Weintraub P., Zahavi T. and Harari A. (2005). *Vitex agnus castus* as trap plant for *Hyalesthes obsoletus*- application and complications. *IOBC "Integrated Protection and Production in Viticulture"*. Darfo Boario Terme-Erbusco, Italy.
10. **Sharon R.** (1999). Do isopods (*armadillo oficinallis*) contribute to leaf litter decomposition? A laboratory experiment. *Isr. J. Zool.* 45:322-323.
11. **Sharon, R.**, Degani, G. and Wargurg, M.R. (1999). The contribution of Isopod (decomposer) and carabid (predator) to leaf litter decomposition in oak wood forest soil. *NAGREF, Kavala, Greece* .
12. **Sharon, R.** (1998). The role of representative soil macro-invertebrates in decomposition of leaf litter in natural oakwood. *VII Internat. Con. Ecol. Florence, Italy.* 385.
13. **Sharon, R.** (1995). Reproductive system of the female salamander, *Salamandra salamandra infraimmaculata*, and its adaptation to water availability in different habitats. *Isr. J. Zool.* 41:160 .

E- Final research reports

1. **Sharon R.**, Weintraub P.G., Zahavi T. (2005) Evaluation of grape rootstocks as a source of resistance to phytoplasma diseases. Chief Scientist of the Ministry of Agriculture.
2. **Sharon R.**, weintraub P.G., Harari A., Soroker V., T. Zahavi, Mawassi M. (2007) The use of plants in "attract and kill" method to reduce yellows disease vectors. Chief Scientist of the Ministry of Agriculture
3. **Sharon R.**, Harari A., Vardi Y., Malkinson D., Abed-Elhadi P. (2007) Whole system approach in treating pomegranate pests for reducing insecticides use. Chief Scientist of the Ministry of Agriculture
4. **Sharon R.**, Harari A., Gordon D., Naor V., Ben-Yehuda S. (2007) Identifying tree's factors affecting the attractant behavior of the *Capnodis* adult beetles. Chief Scientist of the Ministry of Agriculture.
5. **Sharon R.**, T. Zahavi, Protasov A., Mawassi M. (2008) Conservation and enhancement of the natural enemies of the Mediterranean vine mealybug. Chief Scientist of the Ministry of Agriculture.
6. **Sharon R.**, Shaltiel-Harpaz L., Rabinovits R., Kuperberg A*. (2009) Identification of potential trap plants for organic crop pests- *Aphis gossypii* Golver as a model pest. Chief Scientist of the Ministry of Agriculture.
7. **Sharon R.**, Soroker V., T. Zahavi, Zada A. (2010) Use of trap plant and plants volatiles to reduce the *Hyalesthes obsoletus* population, the vector of yellows disease in vines. Chief Scientist of the Ministry of Agriculture.
8. **Sharon R.**, Zahavi T., Mendel Z., Harari A., Protasov A, (2010) Management of the vineyard mealybug by application of pheromone-based mating disruption. Chief Scientist of the Ministry of Agriculture.