## **Liora Shaltiel-Harpaz**

Date: 26.7.2021

#### A. Personal Details

o Liora Shaltiel -Harpaz

o Date of birth: 24/8/64

o Country of birth: USA

o Date of immigration to Israel: 24/9/64

o Citizenship: Israeli, American and German

o Identity number: 069257558

o Family status: Married+2

o Permanent Address: 6 Harchava Alef, Rosh-Pina, 1200000

o Phone numbers: Mobile 050-7965272; Home/Fax 04-6934797

o E-mail address: <u>liora@migal.org.il</u>

o Laboratory web site <a href="https://liorashaltieal.wixsite.com/ipmc">https://liorashaltieal.wixsite.com/ipmc</a>

### B. Higher Education

1988-1992	B.Sc. (summa cum laude), Biology, University of Haifa,	
	Haifa, Israel.	
1992-1994	M.Sc. (Cum Laude) Life Sciences with specialization in	
	Ecology, Ben-Gurion University of the Negev, Beer-Sheva,	
	Israel. Title of thesis: Honeydew as a cue in patch evaluation	
	by a parasitic wasp Diaeretiella rapae foraging for its aphid	
	host Brevicoryne brassicae. The work was carried out under	
	the supervision of Dr. Yoram Ayal.	
1997-2002	Ph.D. in Eco-entomology in the Department of Entomology,	
	Faculty of Agricultural, Food and Environmental Quality	
	Sciences, Hebrew University of Jerusalem, Rehovot, Israel.	
	Title of thesis: The spatial dynamics of the omnivorous	
	Heteroptera Anthocoris nemoralis: Effects of host plants and	

prey. The work was carried out under the supervision of
Prof. Boaz Yoval and Prof. Moshe Coll

## C. <u>Academic Appointments and Academic Administrative positions in</u> academic institutions

2005-2007	Adjunct teacher at Tel-Hai College
2008-present	Lecturer and senior faculty member at Tel-Hai College
2021-present	Senior Lecturer at Tel-Hai College
2012-2014	Head of Ecology Unit, Department of Environmental
	Science, Tel-Hai College

#### D. Teaching at Academic institutions

**Tel-Hai College** – Lecturer at the Department of Biotechnology and Department of Environmental Science (undergraduate), teaching the following courses:

- o Biological control (since 2005)\*
- Research projects in environmental studies (since 2007 and from 2017, with responsibility for all research projects in the Faculty of Sciences and Technology)\*
- Agriculture and environment (since 2008)\*
- o Environmental issues events and meetings (since 2008)\*
- o Workshop in applied ecology (since 2008-2010)
- Research methods in ecology (since 2009-2015)
- o First research seminar in environmental studies (since 2011)
- Pests in agriculture (since 2013)\*
- Workshop in pest management (since 2014)
- Advanced scientific writing (since 2018)

**Hebrew University of Jerusalem**, the Advanced School for Environmental Studies (master's and PhD Students), guest lecturer

<sup>\*</sup>Taught in the 2019-2020 academic year

 Interdisciplinary workshop of environmental issues: Conflicts of soil use in the Hula valley (2015)

## E. Supervision of Graduate students

(Marked with\* if accepted after last academic promotion)

*Mati	MSc student, Tel-Hai College. Thesis title: "Resistance	
Metzuyanim	induction in pear against pear psylla Cacopsylla bidens by	
	the growth inhibitor Regalis." Co-supervision with Prof.	
	Martin Goldway, Migal. Graduated 2013	
*Michal	MSc student, Hebrew University. Thesis title:	
Exelrod	"Manipulating crop management to reduce pink bollworm	
	infestation and damage in cotton." Co-supervision with	
	Prof. Yehoshoa Saranga, Hebrew University. Graduated	
	2015	
*Tamir	MSc Student Hebrew University. Thesis title: "Interactions	
Rosenberg	between Tuta absoluta and its omnivorous predator	
	Nesidiocoris tenuis on wild and commercial tomato	
	genotypes." Co-supervision with Prof. Moshe Coll, Hebrew	
	University. Graduated 2016	
*Tzlil Shitrit	MSc student, Tel-Hai College. Thesis title: "Study of the	
	natural enemy fauna of the water lettuce Pistia stratiotes in	
	Israel." Co-supervision with Dr. Elad Chiel, University of	
	Haifa. Graduated 2016	
*Benyaho	MSc student, Tel-Hai College. Thesis title: "Determination	
Cohen	of economic injury levels of Tuta absoluta in processing	
	tomatoes and investigation of the molecular basis of the	
	plant defense against this pest." Co-supervision with Prof.	
	Martin Goldway, Migal. Graduated 2018	
*Dor	MSc student, Tel-Hai College. Thesis title: "Interrelation	
Rachmani	between graft and scion with respect to reduced	
	susceptibility to pear psylla Cacopsylla bidens in pear	

	trees." Co-supervision with Dr. Mwafaq Ibdah, ARO.			
	Submitted March 2019			
*Hilit Elias	MSc student, Tel-Hai College. Thesis title: "Studying the			
	interaction between plant nutrition and development and			
	damage of the pests Helicoverpa armigera." Co-supervision			
	with Prof. Michael (Iggy) Litaor, Migal. Started October			
	2018; her studies were stopped for personal reasons, April			
	2019			
*Tamir	MSc student, Tel-Hai College. Thesis title: "Clay mineral-			
Kaminer	based formulations for slow release of East Indian			
	lemongrass essential oil, aiming thrips control in chives. Co-			
	supervision with Prof Giora Rytwo. Started November			
	2019.			
*Amit	MSc student, Tel-Hai College. Thesis title:			
Stimiatsky	"Characterization of the conditions that allow outbreaks of			
	a entomo-pathogenic fungi in scale insects (Coccoidea) in			
	Avocado. Co-supervision with Prof Rachel Amir and Dr.			
	Dana Ment. Started October 2020.			
*Yehyea	MSc student, Tel-Hai College. Thesis title: " Sensitivity			
Yehyea	analysis of different carrot strains to the carrot psylla and to			
	the Yellows disease to improve IPM in carrots. Co-			
	supervision with Prof Igi Litaor and Dr Mwafaq Ibdach.			
	Started October 2020.			
* Gadi	MSc student, Tel-Hai College. Thesis title: "The			
Asherovich	interrelationships between the arthropods and the black			
	truffles in the pecan trees and the black truffle system ". Co-			
	supervision with Prof Rachel Amir and Dr. Idan Perelman.			
	Started October 2020.			

## Supervision of Postdocs

*Amber Hill	Postdoc position at Tel-Hai College. Research topic:	
	"Development of a system for locating hot spots of	
	Mediterranean flies in apple orchards for more accurate	

	pest control." Co-supervision with Dr. Lior Blank, ARO.
	Started 2019
*Rachel	Postdoc position at Tel-Hai College. Research topic: "
Toaff-	optimizing BSFL valorization of agricultural by-products
Rosenstein	in Israel as part of a sustainable, circular economy." Co-
	supervision with Yoni Oserovitz Tuff Merom Golan 2020-
	2021

## F. Research Grants

Publications related to research by referral to number in list of publications

(Marked with\* if accepted after previous academic promotion)

Concluded

1996-1997	"Integrated pest management of <i>Edwardsiana rosae</i> in pome
	orchards using the egg parasitoid Anagrus atomus."
	Fruit Board of Israel. PI. Budget: Total \$10,000;
	Researchers' part: \$10,000. Collaborators: David Rosen,
	Hebrew University; Eric Palevsky, ARO; Dov Oppehnaim,
	Ministry of Agriculture. Publication: <b>K.6.1</b>
1998-2001	"IPM of Pear Psylla in Israel." ICSFA (Israel Chief Scientist
	Foundation of the Ministry of Agriculture). PI. Budget:
	Total \$112,500; Researchers' part: \$112,500. Collaborators:
	Moshe Coll, Hebrew University; Eric Palevsky, ARO; Dov
	Oppenhaim, Ministry of Agriculture.
	Publications: <b>K.2., K.3.a.2, K.6.2,</b>
2004-2006	"Development of integrated management control of Thrips
	in chives." ICSFA. PI. Total \$37,500; Researchers' part:
	\$20,500. Collaborators: David Ben Yakir, ARO; Rachel
	Rabinovitz, Eden Research Station.
2006-2009	"The impact of pear tree nitrogen fertilization and growth
	regulation on the pear psylla, Cacopsylla bidens (Sulc)."
	Israeli Fruit Growers' Association, National Psylla Project.
	<b>PI.</b> Total: \$78,000; Researchers' part: \$78,000.

	Collaborators: Moshe Coll, Hebrew University; Dov
	Oppenaim, Ministry of Agriculture. Publication: <b>K.3.a.4</b>
2006-2007	"Planting Rhamnus alaternus hedgerows to conserve
	Anthocoris nemoralis, a natural enemy of the pear psylla,
	Cacopsylla bidens (Sulc)." Israeli Fruit Growers'
	Association, National Psylla Project. PI. Total \$30,000;
	Researchers' part: \$30,000. Collaborators: Moshe Coll,
	Hebrew University; Dov Oppenhaim, Ministry of
	Agriculture. Publications: <b>K.3.a.2</b> , <b>K.5.1</b>
2006-2008	"Control of Euborellia Annulipis in ground nuts fields in the
	Hula valley." Israeli Ground Nut Growers Association. PI.
	Total: \$30,000; Researchers' part: \$30,000.
	Collaborators: David Ben Yakir, ARO; On Rabinovitz,
	Ministry of Agriculture. Publication: <b>K.6.3.</b>
2006-2007	"IPM project in the Hula valley." Israel Ministry of
	Agriculture. <b>PI.</b> Total: \$60,000; Researchers part: \$60,000.
	Collaborators: Shaul Graf, Ministry of Agriculture.
	Publications: K.3.b.2, K.7.4
2007-2009	"Localization of potential trap plants for organic crop pests-
	Aphis gossypii Golver as a model pest." ICSFA. PI. Total:
	\$90,000; Researchers' part: \$30,000. Collaborator: Rachel
	Rabinovitz, Eden Research Station.
2009-2011	"Alternative means to control the pear psylla Cacopsylla
	bidens (Sulc)." ICSFA. PI. Total: \$105,000; Researchers'
	part: \$85,500. Collaborators: Holand D., V. Soroker, R.
	Kedoshim, R. Hason, T. Sokalsky, C. Hatib, I. Bar
	Ya'akovI. Publications: <b>K.3.a.7</b>
2009-2011	"The mechanisms underlying the population breakout of the
	pink bollworm in cotton and the development of integrated
	new approaches for its control" ICSFA. Total: \$156,000;
	Researchers' part: \$91,500. Collaborators: Ali Hrari, ARO
	(PI); Shai Morin, Hebrew University. Publication: <b>K.5.2</b>

2010	"Biofumigation as a mean to produce pest free herbs."
	ICSFA. <b>PI</b> . Total: \$24,000; Researchers' part: \$24,000.
	Publication: <b>K.4.1</b>
2010 2011	
2010-2011	"IPM of <i>Tuta absulota</i> in open field tomato crops." Israeli
	Vegetable Board. <b>PI.</b> Total: \$20,000; Researchers' part:
	\$20,000. Collaborator: S. Graf. Publication: <b>K.3.a.9</b>
2010-2012	"Biofumigation and seedlings pre planting treatments as
	means to produce pest free vegetables in a reduced
	pesticides management." ICSFA. PI. Total \$84,000;
	Researchers' part: \$84,000. Collaborators: A. Graf, M. Levi,
	R. Rabinovitz. Publication: <b>K.4.1</b>
2011-2013	"Improving cotton profitability using a multi-disciplinary
	approach." ICSFA. PI. Total: \$270,000; Researchers' part:
	\$15,500. Collaborators: Y., Saranga, M. Excelrod.
	Publications: M.Sc. thesis of M. Excelrod.
2012-2014	"Development of decision-making tools for IPM of <i>Tuta</i>
	absulota in open field tomatoes." ICSFA. PI. Total:
	\$130,000; Researchers' part \$105,000. Collaborators: D.
	Gerling, S. Graph, H. Kedoshim, L. Azolay, T. Rozenberg,
	Y. Nachache, S. Steinberg, A. Allouche, T. Alon.
	Publications: K.3.a.8, K.3.a.9., K.3.a.11
2013-2014	"Reduction of Rhizoglyphus robini damage to onion and
	garlic by implementing compost for the suppression of
	Fusarium oxysporum." Shaham Fund, Israel Ministry of
	Agriculture. <b>PI</b> . Total: \$6,000 ;Researchers' part: \$6,000.
	Collaborators: S. Masaphy, L. Tsror, & E. Palevsky.
	Publication: <b>K.4.1</b>
2013-2015	"Control of <i>Pistia stratiotes</i> In Israel - Study of local natural
	enemies." JNF (Jewish National Fund). PI. Total: \$54,500;
	Researchers' part: \$54,500. Collaborators: Elad Chil, Haifa
	University. Publication: MSc thesis of Tzlis Shutrit
2013-2016	"The use of resistant pear trees in order to control pear
	psylla." ICSFA. Total:\$102,000; Researchers' part: \$69,000.

	Collaborators: Yoram Gershman, University of Haifa; Doron
	Holand; Vitoria Soroker, ARO. Publications: K.3.a.10,
	K.3.a.12
2013-2016	"Development of economic injury level of cereal aphids in
	wheat to prevent crop damage." Shaham Fund of the Israel
	Ministry of Agriculture. PI. Total: \$18,000; Researchers'
	part \$18,000.
2014-2016	"Monitoring biodiversity in agricultural ecosystems: Field
	crops " ICSFA. PI. Total: \$135, 000; Researchers' part:
	\$42,000. Collaborators: J. L. Kraut-Cohen, E. Argaman, R.
	Rabinovich, D. Minz. Publication: <b>K.7.1</b>
2015-2016	"Understanding the relationship between volotiles of figs
	fertilized by Blastophaga psenes and of Silba adipata Mac
	Alphine in order to reduce damage to figs." Fruit Board of
	Israel, Fig Growers' Table. PI. Total \$26,000; Researchers'
	part \$26,000. Collaborators: M. Ibdah, M. Yahyaa, R.
	Kedoshi. Publications: K.3.a.14, , K.6.7
2015-2017	"Suppression of the soil borne pathogen Fusarium
	oxysporum and mite Rhizoglyphus robini in onion and garlic
	using environmentally friendly measures." ICSFA. PI. Total:
	\$120,000; Researchers' part: \$39,000. Collaborators: Eric
	Palevsky, Michael Raviv, Lea Zror, ARO. Publication:
	K.4.1
2015-2018	"Processing of agricultural plant waste, using the black
	soldier fly, for receiving compost and protein-rich animal
	feed." ICSFA. Total \$240,000; Researchers' part: \$62,000.
	Collaborators: A. Jonas-Levi(PI), J. J. Izhak Martinez, O.
	Danay. Publications: <b>K.7.2</b> , <b>K.7.3</b>
2017	"Development of carrot psyllid-attractant to reduce
	Yellows disease." ICA-Migal Accelerator for Preliminary
	Research Fund. Total: \$20, 000; Researchers' part: \$15,000.
	Collaborators: Mwafaq Ibdah, Phillis Wintraube, ARO.

	gram to
control truffles soil pests." Migal Accelerator for	
Preliminary Research Fund. PI. Total: \$15, 000;	
Researchers' part: \$15,000. Collaborator: Ofer Dan	nay, Migal.
2017-2019 "Studying the interaction between plant nutrition a	and pests
for the reduction of pesticide use and optimization	of
fertilizer application." ICSFA. PI. Total: \$302,520	);
Researchers' part: \$210,000. Collaborators: Menas	she Levi-
Migal; Eric Palevsky; Uri Yermiyahu, ARO; Shai	Morin,
Hebrew University. Publication: <b>K.5.3</b>	
2019-2020 "Treatment of the outbreaks of the mango soft sca	le
Milviscutulus mangiferae by the parasitic wasp Mi	icroterys
nietneri." Mango Grower's Board. PI. Total: 16,00	00\$;
Researchers' part: \$10,000. Collaborators: Matan	Alfasi,
Kibbutz Ravid; Iris Eshed Silver, Dror Galil High	School;
Michael Noy, Cliff Love; Ministry of Agriculture.	
2019 "Promoting the prevention and control of three sca	ale insects-
pest species of avocado, with an emphasis on the p	papaya
mealybug." Avocado Growers' Board. PI. Total: \$	518,000;
Researchers' part: \$10,000. Collaborators: Zvi Me	ndel,
ARO, Michael Noy, Yonatan Maoz, Avocado Gro	owers
Board, Nitzan Senesh, Eitan Hecht, Ministry of Ag	griculture.
Current	
2019-2021 "Development of protocols for alternative protein	
production, to feed men and fish, based on Hermit	ta illusence
the Black Soldier Fly larvae, fed on agricultural w	astes of
the Upper Galilee." ICSFA. <b>PI</b> . Total \$213,000; R	desearchers'
part: \$46,500. Collaborators: Adi Jonas, Roee Gut	man,
Avshalom Horovitz, Roni Tzemach.	
2019-2021 "Clay mineral based formulations for slow release	of East
Indian lemongrass essential oil, aiming thrips cont	rol in
chives." ICSFA. Total: \$213,000; Researchers' par	rt:

	\$46,500. Collaborators: Giora Rytwo, Migal (PI); Nativ
	Dudai; David Ben-Yakir.
2019-2021	"Developing a modeling tool for predicting the dynamics,
	under global warming, of whitefly pests in open field
	vegetable crops, and building a reliable tool for risk
	assessment and decision making." ICSFA. Total \$234,000;
	Researchers' part: \$51,000. Collaborators: Shai Morin,
	Hebrew University (PI); Efrat Morin, Hebrew University.
	Publication: <b>K.3.a17</b> *
2019-2021	"Sensitivity analysis of different carrot strains to the carrot
	psylla and to the Yellows disease to improve IPM in
	carrots."
	ICSFA. Budget: Total \$225,000; Researchers part \$45,000.
	Collaborators: Mwafaq Ibdach-ARO (PI), Ofir Bahar ARO.
	Publication: <b>K.3.a19*</b>
*2019-2021	"Development of a system for locating hot spots of
	Mediterranean flies in apple orchards for more accurate pest
	control." ICSFA. Total: \$234,000; Researchers' part:
	\$18,000. Collaborators: Lior Blank (PI), ARO; Mwafaq
	Ibdach; Yafit Cohen, ARO; Ofer Mendelson, Tel Aviv
	University.
2019-2021	"Using resistant almond verities to the almond seed wasp in
	order to understand resistance mechanism and improvement
	of almond varieties resistant to the wasp." ICSFA. Total:
	\$234,000; Researchers' part: \$15,000. Collaborator: Doron
	Holand (PI), ARO. Publications: K.3.a.13, K.6.9
2019-2022	"Preventing HLb epidemics for ensuring citrus survival in
	Europe." European Commission Horizon 2020. Total:
	€6,639,815; Researchers' part €65,875. Collaborators: 24
	European teams. PI of the Israeli team: Ofir Bahar, ARO.
2020-2022	"Promoting the prevention and control of the coccid scale
	pests in in avocado on the background of ecological and
	management changes in the industry." ICSFA. PI. Total:

	\$225,828; Researchers' part: \$200,000. Collaborators: Dana
	Ment; Zvi Mendel, ARO; Yonatan Maoz, Avocado Growers'
	Board, Eitan Hecht, Ministry of Agriculture; Massimo
	Giorgini, Institute for Sustainable Plant Protection, National
	Research Council, Portici Italy.
2020 2021	"NI
2020-2021	"New chitinase-based Products for the control of insect pests"
	. Italy-Israel R&D Cooperation Program Authority of
	innovation. Total: €57,500 researchers part €28,750.
	Collaborators: Moran Siti, Luxemburg Industries Ltd , Israel.
	Riccardo Liguori Isagro SpA, Italy. Gianluca Tettamanti,
	Insubria Uni. Italy.
2020-2021	"Management of the carrots psylla using the "push-pull"
	method to reduce yellowing disease damage in commercial
	carrot". The Carrot growers table -Vegetable Council. Total:
	60000 NIS ,Collaborator: Mwafaq Ibdach-ARO (PI).
*2020-2021	"Development of Black Fig fly-attractant and or repellent to
	reduce Fig fruit damages". ICA foundation. (PI) Total 35000\$
	Collaborator Mwafaq Ibdach-ARO
*2021-2023	"Improving stream agriculture interface and enhancing
	ecosystem services using a riparian vegetation buffer strip: the
	Nahalal stream as a model". ICSFA. Total: 780,000 NIS;
	Researchers' part: 60,000NIS . Collaborators: Ora Moshe (PI),
	ARO; Roi Egozi and Asaf Sade, ARO; Marcelo Stinberg, Tel
	Aviv University.
	·
*2021-2022	A faunistics survey of the natural enemies of the Pumpkin Fly
	(Dacus ciliatus) in Israel: a first step towards biological-
	integrated pest control. Haifa University-Tel Hai joined fund.
	Total 35,000NIS, Collaborator: Elad Chiel Haifa University

## G. Awards and Fellowships

1992-1994	Recipient of the Licht Scholarship to support master's-degree
	studies at the Blaustein International Center for Desert
	Research, Ben Gurion University of the Negev.
1994 (Aug)	Recipient of the Miterany Foundation Grant to attend the 5th
	European Congress of Entomology. York, England.
1996 (May)	Recipient of the Zalmam Levit Scholarship to support
	agricultural research. Fruit Board and Farmers' Association
	of Israel.
1997 (Oct)	Recipient of the Northern R&D of Israel Travel Grant to the
	USA for professional training in IPM.
1999 (Jan)	Recipient of the David Rosen award, Hebrew University of
	Jerusalem.
1998-2001	Recipient of PhD Scholarship, Hebrew University of
	Jerusalem.
2001	Recipient of the Leaders in Agriculture Scholarship, Fruit
	Board of Israel.
2003	Recipient of the BARD postdoctoral scholarship.*
2006	Award of excellent lecturer, Tel-Hai College.
Awarded after la	ast academic promotion
2010	Award of excellent lecturer, Tel-Hai College.
2015	Award of excellent lecturer, Tel-Hai College.

<sup>\*</sup>Due to health problems, I had to decline the scholarship.

# **H.** Active Participation in Scientific **International** Conferences (as speaker)

1994	Shaltiel L. and Ayal Y. 1994. Honeydew as a cue in
	evaluating host aggregation by a parasitic wasp. The 5 <sup>th</sup>
	European Congress of Entomology.1-4 August 1994, York,
	UK. (Selected lecture)
2001	Shaltiel L. and Coll M. (2001). Population dynamics of the
	omnivore Anthocoris nemoralis: The effect of host plants and

	prey. The 11 <sup>th</sup> International Symposium on Insect-Plant
	Relationships (SIP11), 4-10August, 2001, Helsingor,
	Denmark. (Selected lecture)
2011	Shaltiel-Harpaz L. (2011). The current status of the tomato
	leafminer Tuta absoluta in Israel. International Symposium
	on Management of <i>Tuta absoluta</i> FAO. 16-18 November
	2011, Maroco Agadir (partial coverage of expenses). (Invited
	lecture)
2011	Shaltiel-Harpaz L., Gerling D., Graph S., Kedoshim H.,
	Azolay L., Rozenberg T., Nachache Y., Steinberg S.,
	Allouche A., Alon T. (2011). PM of <i>Tuta absulota</i> in Israel.
	International Symposium on management of <i>Tuta absoluta</i>
	FAO. 16-18 November 2011, Maroco Agadir. (Selected
	lecture)
2014	Shaltiel-Harpaz L., Holand D., Gershman Y, Ibdach M.,
	Soroker V., Kedoshim H., Hativ C., Bar Yaakov I.,
	Rachemani D., Ravid O., (2014). Interrelation between graft
	and scion with respect to reduced susceptibility to pear psylla
	in pear trees. International COST MEETING Vegetable
	Grafting to Improve Yield and Fruit Quality Under Biotic and
	Abiotic Stress Conditions Jerusalem. Israel, 10-12 February
	2014. (Invited lecture)
2014	Shaltiel-Harpaz L., Holand D., Gershman Y, Ibdach M.,
	Soroker V., Kedoshim H., Hativ C., Bar Yaakov I., Rchemani
	D. (2014 . The use of resistant pear accessions as inter-stock
	in order to reduced susceptibility to pear psylla Cacopsylla
	bidens (Šulc) in commercial pear trees. SIP15 – 15 <sup>th</sup>
	International Symposium on Insect-Plant Relationships.
	University of Neuchâtel, Switzerland, 17-22 August 2014.
	(Poster presented)
2014	Shaltiel-Harpaz L., Gerling D., Graph S., Kedoshim H.,
	Azolay L., Rozenberg T., Nachache Y., Steinberg S.,
	Allouche A., Alon T (2014). Development of IPM tools to

	control <i>Tuta absoluta</i> in open field tomato crops in Israel. The
	International Conference on Drylands, Deserts and
	Desertification, 17-20 November 2014, Ben Gurion
	University Sde Boker Camous. Israel (Invited lecture)
2014	Shaltiel-Harpaz L. (2014). Replication in agricultural
	experiments of IPM. (ISF) International workshop:
	Replication uncertainty in biological research. 30 March-4
	April 2014. Tel-Hai College, Israel. <b>Invited lecture</b> )
2015	Shaltiel-Harpaz L., Rozenberg T., Coll M. (2015). Plant
	domestication affects differently an herbivore and its
	omnivorous natural enemy: Tuta absoluta and Nesidiocoris
	tenuis on wild and commercial tomato. 4 <sup>th</sup> International
	Entomophagous Insects Conference (IEIC4), 4-9 October
	2015Torre del Mar, Malaga, Spain. (Selected lecture)
2015	Shaltiel-Harpaz L., Rozenberg T., Coll M. (2015) Effect of
	wild and commercial tomato plants on <i>Tuta absoluta</i> and its
	omnivorous predator Nesidiocoris tenuis. International COST
	MEETING Integrated Control in Protected Crops.
	Mediterranean Climate Working Group Meeting, 11-15
	October 2015, Rehovot, ISRAEL. (Invited lecture)
2017	Shaltiel-Harpaz L., Jonas-Levi A., Danai O., Martinez J
	J.I., Fichtman B., Harel A. (2017). The microbial gut
	community of BSF (Hermatia illucens) is affected by the
	consumption of different agricultural wastes. Insect
	symbionts: Plasticity in confronting environmental
	challenges. International workshop , May 10-11, 2017, Ben-
	Gurion University of the Negev, The Jacob Blaustein
	Institutes for Desert Research . Midreshet Ben-Gurion Israel.
	(Invited Lecture)
2017	Shaltiel-Harpaz L., Martinez JJ.I., Danay O., Jonas-Levi
	A. (2017). Post harvest utilization of the Black soldier fly
	BSF (Diptera: Stratiomyidae: Hermetia illucens) to reduce
	pest populations from agricultural wastes. The 5 <sup>th</sup>

10	6-20 October 2017, Kyoto, Japan. (Selected lecture)
2018 Si	haltiel-Harpaz L., Martinez JJ.I., Danay O., Jonas-Levi
A	a. (2018). The black soldier fly's contribution to the
er	nvironment: sustainable reduction of organic wastes. Afula
C	Convention On Beneficial Expressions of Insects. 6 March
20	018, Afula, Israel . ( <b>Invited lecture</b> )
2018 S	haltiel-Harpaz L., Levi M., Palevsky E., Gal S., Murin S.,
Y	ermiyahu U. (2018). Studying the interaction between plant
n	utrition and pests for the reduction of pesticide use and
ol	ptimization of fertilizer application International. IOBC-
W	VPRS Working Group integrated control in protected crops –
N	Mediterranean climate. 4-7 September 2018, INIAV, Oeiras,
L	isbon, Portugal. (Selected lecture)
2018 E	conomic thresholds of aphids in wheat crops. International
E	PG Workshop-Training course, 10-12 October 2018,
V	Volcani institute, Beit Dagan, Israel. (Invited lecture)
2019 S	haltiel-Harpaz L., Yahyaa M., Kedoshim R., Barshan I.,
N	awade B., Ibdah M., Biological control without a single bite:
th	ne case of the fig wasp Blastophaga psenes and the black fig
fl	y Silba adipata. 9-13 September 2019, IEIC6 Perugia Italy.
(\$	Selected lecture)
Since previous promotion *	
*2021 S	haltiel-Harpaz L., Kramer T., Dudai N., Rytwo G. Novel
В	otanical Insecticides based on essential oils and clay -
	Thrips Tabaci as a model. The Second International Congress
of	f Biological Control (ICBC2) 26-30th April, 2021 100%
vi	irtual (Selected lecture)

# Active Participation in Scientific International Conferences (Colleges presenting the research as speakers)

20	011	Niv A., <b>Shaltiel-Harpaz L</b> ., Rippa M., Shavit R., Horowitz
		A. R. (2011). Can tomato be a potential host plant for pink

	bollworm. World Cotton Research Conference. 7-
	11 November 2011 Mumbai, India. (Selected lecture)
2011	Ayal Y. and <b>Shaltiel-Harpaz L</b> . Bridging behavior, ecology
	and population dynamics. (2011). 2 <sup>nd</sup> Entomophagous Insect
	Conference. 20-23 June 2011. Antibes- France. (Selected
	lecture)
2015	Ibdah M., Rachmany D., Gerchman Y., Holland D., Shaltiel-
	Harpaz L. (2015). The Use of the Natural Volatile
	Compound to Manage the Pear Psylla Cacopsylla bidens
	(Šulc) in Commercial Pear Trees. 18 <sup>th</sup> International Plant
	Protection Congress. 24–27 August 2015. Berlin, Germany.
	(Selected lecture)
2016	Palevsky E., Raviv M., Shaltiel-Harpaz L., Tsror
	L. (2016). Developing environmentally friendly control
	methods for the bulb mite and subsequent effects on
	beneficial soil mite fauna. III International Symposium on
	Organic Greenhouse Horticulture. 11-14 April 2016. Izmir,
	Turkey. (Selected lecture)
2016	Jonas-Levi A, Shaltiel-Harpaz L., Danay O, Martinez J-JI
	(2016). Decomposition of waste by black soldier fly larvae
	can be controlled. 1st International Conference of Bio-
	resources and Technology. 23-26 October 2016. Sitges,
	Spain. (Poster presented)
2017	Ibdah M., Mosaab Y., Rachmany D., Shaltiel-Harpaz L.,
	Gerchman Y., Holland D. (2017). Pear Psylla Cacopsylla
	bidens (Šulc) Management by Natural Volatile Compounds
	HPIS Hemipteran-Plant Interaction Symposium. 4-8 June
	2017. Madrid, Spain. (Poster presented)
2018	Jonas-Levi A., Martinez JJ.I., Danay O., Shaltiel-Harpaz
	<b>L.</b> (2018). Processing of agricultural plant waste using the
	Black Soldier Fly larvae causes germination reduction in
	various weed types. The Fourth International INSECTA
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	G C 770 1 2010 G' G
	Conference. 5-7 September 2018. Giessen, Germany.
	(Selected lecture).
2018	Mosaab Y., Rachmany D., Shaltiel-Harpaz, Gerchman Y.,
	Ibdah M., Holland D. (2018). Profiling the Volatile
	Metabolome in Pear Leaves with Different Resistance to the
	Pear Psylla Cacopsylla bidens (Šulc) and Characterization of
	Phenolic Acid Decarboxylase. Gordon Research
	Conferences: Plant Volatiles. 4-9 February
	2018. Renaissance Tuscany Il Ciocco in Lucca (Barga) Italy.
	(Poster presented)
2019	Ibdah M., Mosaab Y., Rachmany D., Gerchman Y., Holland
	D., Shaltiel-Harpaz L., (2019). Profiling the volatile
	metabolome in pear leaves with different resistance to the
	pear psylla Cacopsylla bidens (Šulc) and characterization of
	phenolic acid decarboxylase. International Plant Science
	Conference. 9-15 September 2019. Rostock, Germany.
	(Invited lecture)
2020	Rytwo, G., Kramer, T., Azoulay, L., Shaltiel-Harpaz,
	L. Novel insecticides based on essential oils and clay. The
	4th Asian Clay Conference (ACC-2020), June 2020, Online-
	conference, The Royal Cruise Hotel Pattaya, Thailand.
	(Selected lecture).
*2021	Rytwo, G., Kramer, T., Azoulay, L., Shaltiel-Harpaz, L.
	Efficient insecticides based on essential oils and clay.
	American Chemical Society Fall 2021. 22-26 August 2021
	Atlanta U.S.A. (Selected lecture). Acceptance Notice
	Update 3588833
L	l

## Active Participation in Scientific Conferences in Israel (as speaker) Since previous promotion \*

2008	Shaltiel-Harpaz L., Coll M. (2008). The effects of tree
	fertilization and growth regulation on pear psylla. The 27 <sup>th</sup>

	Conference of the Entomological Society of Israel, 27
	October 2008. Oranim Campus. ( <b>Selected lecture</b> )
2009	Shaltiel-Harpaz L., Koperberg A., Ben Yakir D. (2009).
	Control of Euborellia Annulipis in peanut field in Northern
	Israel. The 28th Conference of the Entomological Society of
	Israel. 14 October 2009. Tel Aviv University. (Selected
	lecture)
2010	Shaltiel-Harpaz L., Rabonovitz R. (2010). Biofumigation as
	means to control insect pests in fresh herbs and vegetable
	crops. The 29th Conference of the Entomological Society of
	Israel. 7 October 2010. Volcani Center, Bet Dagan. (Selected
	lecture)
2011	Shaltiel-Harpaz L., Morin S., Harrary A., Niv A. (2011).
	The mechanisms underlying the population breakout of the
	pink bollworm in cotton and the development of integrated
	new approaches for its control. The 39 <sup>th</sup> Conference of the
	Israel Society of Ecology and Environmental Sciences. 27-28
	June 2011. Megido, Israel. (Selected lecture)
2011	Shaltiel-Harpaz L., Gerling D., Graph S., Kedoshim H.,
	Azolay L., Rozenberg T., Nachache Y., Steinberg S.,
	Allouche A., Alon T. (2011). Obstacles of immigrants in the
	holy land- Tuta absoluta in Israel. The 30 <sup>th</sup> Conference of the
	Entomological Society of Israel. 26-27 October 2011. Sde
	Boker Campus. (Invited Plenary lecture)
2012	Shaltiel-Harpaz L., Holand D., Gershman Y, Ibdach M.,
	Soroker V., Kedoshim H., Hativ C., Bar Yaakov I., Rchemani
	D. (2012). Alternative means of controlling pear psylla. The
	31st Conference of the Entomological Society of Israel. 16
	October 2012. The Faculty of Agriculture, Food and
	Environment. Rehovot. (Selected lecture)
2012	Shaltiel-Harpaz L., Gerling D., Graph S., Kedoshim H.,
	Azolay L., Rozenberg T., Nachache Y., Steinberg S.,
	Allouche A., Alon T. (2012). <i>Tuta absoluta</i> in Israel. The

	Annual Meeting of the Israeli Society of Field Crops and
	Vegetables. 6-7 February 2012. The Faculty of Agriculture,
	Food and Environment Rehovot. (Invited lecture)
2012	Shaltiel- Harpaz L. (2012). Environmentally friendly
	agriculture project: A case study in the Hula valley. The 40 <sup>th</sup>
	Conference of The Israel Society of Ecology and
	Environmental Sciences. 17-18 October 2012. Tel Aviv
	University. (Selected lecture)
2013	Shaltiel- Harpaz L. (2013). IPM In real life- A case study in
	the Hula valley 15th Conference of the Galilee Research 29-
	30 April 2013. Tel-Hai. ( <b>Selected lecture</b> )
2013	Shaltiel-Harpaz L., Graph S., Peles S., Rotman N.,
	Levingart A. (2013). The effect of an environmentally
	friendly pest management strategy on the biodiversity in
	orchards and the crop quantity and quality. Nekudat Hen
	Annual Meeting. 2 October 2013. Beit Dagan. (Selected
	lootuma)
	lecture)
2014	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.
2014	'
2014	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.
2014	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel
2014	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health
2014	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.
	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)
	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y.
	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y. Catzanelson M.,(2015). Development of economic injury
	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y. Catzanelson M.,(2015). Development of economic injury level of cereal aphids in wheat to prevent crop damage. Field
	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y. Catzanelson M.,(2015). Development of economic injury level of cereal aphids in wheat to prevent crop damage. Field Crop Association Annual Meeting. 7 September 2015. Ein-
2015	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y. Catzanelson M.,(2015). Development of economic injury level of cereal aphids in wheat to prevent crop damage. Field Crop Association Annual Meeting. 7 September 2015. Ein- Harod. (Selected lecture)
2015	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y. Catzanelson M.,(2015). Development of economic injury level of cereal aphids in wheat to prevent crop damage. Field Crop Association Annual Meeting. 7 September 2015. Ein- Harod. (Selected lecture)  Shaltiel-Harpaz L., (2015). Biodiversity considerations in
2015	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y.  Catzanelson M., (2015). Development of economic injury level of cereal aphids in wheat to prevent crop damage. Field Crop Association Annual Meeting. 7 September 2015. Ein- Harod. (Selected lecture)  Shaltiel-Harpaz L., (2015). Biodiversity considerations in carrying out agricultural activities. Expert's workshop on
2015	Shaltiel-Harpaz L., (2014). Alternatives to pesticides.  Talking about pesticides: Conference organized by the Israel Union for Environmental Defense, Environment and Health fund and the Harold Hartog School of Government & Policy.  2 March 2014. Tel Aviv University. (Invited lecture)  Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y. Catzanelson M.,(2015). Development of economic injury level of cereal aphids in wheat to prevent crop damage. Field Crop Association Annual Meeting. 7 September 2015. Ein- Harod. (Selected lecture)  Shaltiel-Harpaz L., (2015). Biodiversity considerations in carrying out agricultural activities. Expert's workshop on sustainable agriculture indices of the Israel Society of

2016	Shaltiel-Harpaz L., Rozenberg T., Coll M. (2016). Does
	plant domestication always reduced plant resistance to
	herbivores and omnivores? Tuta absoluta and Nesidiocoris
	tenuis on wild and commercial tomato. 1st Plant Ecology
	Conference, 15-16 February 2016. Tel-Hai College. ( <b>Selected</b>
	lecture)
2016	Shaltiel-Harpaz L., Palevsky E. (2016). The effect of plant
	nutrition on insect and mite pests. Conference on the effect of
	plant nutrition on pests. Organized by the Israel Ministry of
	Agriculture and Rural Development Extension Service
	Department of Plant Protection. 17 November 2016. Volcani
	Center. (Invited lecture)
2017	Shaltiel-Harpaz L. (2017). Who really benefits from GMO?
	Conference of Agriculture from a Different Angle. 3 May
	2017. School of Sustainability, IDC Herzlia. (Invited
	lecture)
2017	Shaltiel-Harpaz L., Alon T., Graph S., Peles S., Giladi Y.
	Catzanelson M. (2017). Development of economic injury
	level of cereal aphids in wheat to prevent crop damage. 19 <sup>th</sup>
	Conference of Galilee Research. 5-6 April 2017. Tel-Hai
	College. (Selected lecture)
2017	Shaltiel-Harpaz, L. (2016). Dealing with Euborellia
	Annulipis maternal behavior, and the effect of seed rotation.
	Conference on friendly pest control of soil arthropods.
	Volcani Center, 26 April 2017. (Invited lecture)
2017	Shaltiel-Harpaz L., Sagi H., Zaban S. (2017). Agricultural
	ecosystems: The services they provide and the trends of
	change over the years. 45 <sup>th</sup> Environmental Sciences Annual
	Conference. The Israel Society of Ecology. 10-11 July IDC
	Herzlia. (Selected lecture)
2018	Shaltiel-Harpaz L., Kedoshim R., Ibdach M., Rhachmani D.,
	Barshan I. (2018). Figs, pollinating wasps, pest flies and the
	communication between them. 20th Conference of Galilee

	Research. 21 March 2018. Tel-Hai College. (Selected
	lecture)
2018	Shaltiel-Harpaz L., Kedoshim R., Ibdach M., Rachmani D.,
	Barshan I. (2018). The use of the communication between the
	fig and the fig wasp Blastophaga psenes and for control of the
	black fig fly Silba adipata. The 37th Conference of the Israel
	Society Entomology. 10 October 2018. Faculty of
	Agriculture, Food and Environment Rehovot (Selected
	lecture)
2019	Shaltiel-Harpaz, L. (2019) You are what you eat: The effect
	of plant nutrition on herbivore plant interactions. 4 <sup>th</sup> Plant
	Ecology Conference. 29-30 January 2019. Tel-Hai Campus.
	(Invited key-note lecture)
2019	Shaltiel –Harpaz L. and Rabinovitz R. Implementation of
	integrated pest management approaches to crop protection in
	the model farm. Brainstorming Workshop on Model Farm for
	Sustainable Agriculture. 13-14 August 2019. Ramat Hanadiv,
	Israel (Invited lecture)
2019	Shaltiel-Harpaz, L., Peles L. Fichtman B., Harel A., Danay
	O., Martinez J-JI, Jonas-Levi A., Zechorifine E., Lalzar M.
	(2019). The microbial gut community of BSF (Hermatia
	illucens) is affected by the consumption of different
	agricultural wastes. The 38 <sup>th</sup> Conference of The Israel Society
	Entomology. Volcani Center, 23 October 2019. (Invited
	lecture)
*2021	Shaltiel –Harpaz L. Rabinovitz R. Kfir R., and Two-year
	Implementation of integrated pest management approaches to
	crop protection in the model farm- two year summary.
	Summary meeting of the establishment period - Model Farm
	for Sustainable Agriculture. 21-22 Julay 2021. Ramat
	Hanadiv, Israel (Invited lecture)

#### I. Non-Academic Activity & Positions

#### **Positions in research Institutions**

2006-present	Researcher at MIGAL Northern R&D Plant Protection
	Unit (promoted to senior researcher in 2018)

#### Membership in professional organizations

(Marked with\* if accepted after previous academic promotion)

2006-present	The Entomological Society of Israel
2010-present	The Israel Society of Ecology and Environmental
	Sciences
2018-present	IOBC - International Organization for Biological Control

#### **Editorial Responsibilities**

2001-present	Reviewer of manuscripts for the following journals:
	Bioscience, Biological Control, Journal of Pest Science,
	The Israel Journal of Plant Science, Phytoparasitica,
	Ecology and Environment.
2006-present	Reviewer of research proposals for the following funds:
	BSF, GIF, The Chief Scientist of the Israel Ministry of
	Agriculture, The Ring Center for multidisciplinary
	Environmental Research at The Hebrew university.

#### Administrative positions in academic institutions

2012-2014	Head off Ecology Unit, Department of Environmental
	Science Tel-Hai Academic College

#### J. <u>Attached Documents</u>

o All my relevant documents are at Tel-Hai

#### K. <u>Publications</u>

1. **M.Sc. thesis** (Cum Laude) Title of thesis: Honeydew as a cue in patch evaluation by a parasitic wasp *Diaeretiella rapae* foraging for its aphid host

- *Brevicoryne brassicae*. Ben–Gurion University of the Negev, Beer-Sheva, Israel. Supervision by: Dr. Yoram Ayal. Date of receipt of degree 30/5/1995.
- 2. **Ph.D. thesis**. Title of thesis: The spatial dynamics of the omnivorous Heteroptera *Anthocoris nemoralis*: effects of host plants and prey. Hebrew University of Jerusalem. under the supervision of Professor Boaz Yoval and Prof. Moshe Coll. Date of receipt of degree 6/6/2004.

#### 3. a. Articles in refereed journals

(Marked with\* accepted after last academic promotion)

- 1. **Shaltiel**, L. and Ayal, Y. (1998). The use of kairomones for foraging decisions at two hierarchical scales by an aphid parasitoid: Foraging in small host aggregations. *Ecological Entomology* 23:319-329. IF 2.073; Entomology Rank: 20/98, Q1. Citations: 67
- Shaltiel, L. and Coll, M. (2004). Reduction of pear psylla damage by
   *Anthocoris nemoralis*: The importance of orchard colonization time and
   neighboring vegetation. *Biocontrol Science and Technology* 8:811-821. IF
   1.00; Entomology Rank: 52/98, Q3. Citations: 37
- Ne'eman, G., Shavit, O., Shmida, A. and Shaltiel, L. (2006). Foraging by male and female solitary bees with implications for pollination. *Journal of Insect Behavior* 19:383-401. IF 0.931; Agricultural and Biological Sciences Rank: 70/139, Q2. Citations: 45
- 4. Shaltiel-Harpaz, L., Kedoshim, R., Openhiem, D., Stern, R. and Coll, M. (2010). Effect of host plant makeup through nitrogen fertilization and growth regulators on the pear psylla population. *Israel Journal of Plant Sciences* 58:143-148. IF 0.908; Plant science Rank :76/197, Q2. Citations: 6
- Gophen M. and Shaltiel L. (2012). Record of the alien species Craspedacusta sowerbii Lankester, 1880 (Cnidaria: Limnomedusae) BioInvasions Records
   1: 29-31. IF 1.189, Environmental Science Rank: 137/336, Q2. Citations:5
- 6. Zappalà, L., Biondi, A, Chailleux, A., Shaltiel-Harpaz, L., Gerling, D., Stavrinides, M., Madadi, H., Guenaoui ,Y., Chermiti, B., El Arnaouty, A., Al-Jboory, I. J., Bayram, A., Alma, A., Desneux, N. (2013). Western Palaearctic natural enemies of the Neotropical moth, *Tuta absoluta*, and their

- potential for use in pest control strategies. *Journal of Pest Science*, 86(4), 635-647. IF 5.133. Agricultural and Biological Sciences Rank: 5/320, **Q1**. Citations:185
- 7. Shaltiel-Harpaz, L., Holand, D., Soroker, V., Kedoshim, R., Hason, R., Sokalsky, T., Hatib, C., Bar Ya'akov, I. (2014). Two pear varieties evaluated for resistance to pear psylla (*Cacopsylla bidens* (Sulc)) in Israel. *Pest Management Science* 70 (2), 234-239. IF 3.255. Agricultural and Biological Sciences Rank: 7/139, Q1. Citations:11
- Rozenberg, T., Shaltiel-Harpaz, L., & Coll, M. (2015). Visualizing eggs of Nesidiocoris tenuis (Heteroptera: Miridae) embedded in tomato plant tissues. *Entomological Science* 18(3) 400-402. IF 1.073. Entomology, Rank: 51/98, Q3. Citations:1
- 9. Shaltiel-Harpaz, L., Gerling, D., Graph, S., Kedoshim, H., Azolay, L., Rozenberg, T., Nachache, Y., Steinberg, S., Allouche, A. (2016). Control of the Tomato Leafminer, *Tuta absoluta* (Lepidoptera: Gelechiidae) in Open-Field Tomatoes by Indigenous Natural Enemies Occurring in Israel. *Journal of Economic Entomology* 109.1 120-131. IF 1.936 Agricultural and Biological Sciences Rank 29/139, Q1. Citations: 11
- 10. Shaltiel-Harpaz, L., Gerchman, Y., Ibdah, M., Kedoshim, R., Rachmany, D., Hatib, C., Bar Ya'akov, I., Soroker, V., Holand, D. (2018). Grafting on resistant interstocks reduces scion susceptibility to pear psylla, *Cacopsylla bidens. Pest Management Science* 74(3), 617-626. IF 3.255 Agricultural and Biological Sciences Rank: 7/139, Q1. Citations: 1
- 11. Han, P., Bayram, Y., Shaltiel-Harpaz, L., Sohrabi, F., Saji, A., Esenali, U. T., Lu, Z. Z. (2019). *Tuta absoluta* continues to disperse in Asia: damage, ongoing management and future challenges. *Journal of Pest Science*, 1-11. IF 5.133. Agricultural and Biological Sciences Rank: 5/320, Q1, Citations:25
- 12. Yahyaa, M., Rachmany, D., **Shaltiel-Harpaz, L.**, Nawade, B., Sadeh, A., Ibdah, M., Ibdah, M. (**2019**). A *Pyrus communis* gene for p-hydroxystyrene biosynthesis, has a role in defense against the pear psylla *Cacopsylla bidens*. *Phytochemistry*, *161*, 107-116. Plant Science Ranking: **Q1.** IF 2.905.

- 13. Nawade, B., Yahyaa, M., Reuveny, H., Shaltiel-Harpaz, L., Eisenbach, O., Faigenboim, A., Ibdah, M. (2019). Profiling of Volatile Terpenes from Almond (*Prunus dulcis*) Young Fruits and Characterization of Seven Terpene Synthase Genes. *Plant Science*, 287, 110187. Plant Science Ranking: Q1. IF 3.785.
- 14. Nawade, B., Yahyaa, M., Shaltiel-Harpaz, L., Kedoshim, R., Bosamia, T., Zohar M., Isaacson, T. Ibdah, M. (2020) Analysis of apocarotenoid volatiles during the development of *Ficus carica* fruits and characterization of carotenoid cleavage dioxygenase genes. *Plant Science*, 290, 110292. Plant Science Ranking: Q1. IF 3.785.
- Kraut-Cohen, J., Zolti, A., Shaltiel-Harpaz, L., Argaman, E., Rabinovich, R., Stefan, J. G., & Minz, D. (2020). Effects of tillage practices on soil microbiome and agricultural parameters. *Science of the Total Environment*, 705, 135791 Q1.IF 5.589
- 16. Nawade, B., **Shaltiel-Harpaz, L.,** Yahyaa, M., Kabaha, A., Kedoshim, R., Bosamia, T. C., Ibdah, M. (2020) Characterization of terpene synthase genes potentially involved in black fig fly (*Silba adipata*) interactions with Ficus carica. Plant Science 110549. **Q1**. IF. 3.785
- 17.\* Neta, A., Gafni, R., Elias, H., Bar-Shmuel, N., Shaltiel-Harpaz, L., Morin, E., & Morin, S. (2021). Decision support for pest management: Using field data for optimizing temperature-dependent population dynamics models. *Ecological Modelling*, 440, 109402. Q2 IF:2.497
- 18.\* Paparella, A., Shaltiel-Harpaza, L., & Ibdah, M. (2021). β-Ionone: Its Occurrence and Biological Function and Metabolic Engineering. *Plants*, 10(4), 754. Q1.IF: 3.935
- 19.\* Liora Shaltiel-Harpaz, Mosaab Yahyaa, Bhagwat Nawade, Natalia Dudareva, Mwafaq Ibdah (2021). Identification of a Wild Carrot as Carrot Psylla (*Bactericera trigonica*) Attractant and Host. Accepted to Plant Science 26/7/21. *Plant Science*. 111011. Q1.IF: 4.729 26/7/21

#### **Submitted articles:**

- Jonas-Levi A., Opatovsky, I., Martinez, J.-J.I., Danay, O., Shaltiel-Harpaz,
   L. Post-harvest utilization of the Black soldier fly (BSF Diptera:
   Stratiomyidae: Hermetia illucens) to reduce insect pest populations from agricultural wastes. Submitted April 2020 to: Waste Management. IF.5.4
- Hill, A. J., Pless, S., Graf, S., Rotman, N., Loingert-Eicchay., Shaltiel-Harpaz, L. Medfly (*Ceratitis capitata*) Traps Help to Increase Arthropod Biodiversity in Citrus Orchards, Israel. Submitted September 2020 to Agriculture, Ecosystems And Environment IF: 4.241

#### 3. b. Articles in Hebrew refereed journals

- 1. Cohen, Y., Goldstien, A., Hezroni, A., **Shaltiel-Harpaz, L**., Lanski, A., Alon, T., Gilboa, A., Raviv, R. (2011). Spatial and temporal dynamics of *Helicoverpa armigera in the* Harod valley. *Nir Va telem* 34:37-46 (was subjected to Peer review)
- Shaltiel-Harpaz, L., Chen, Y., Ben Yashar, E., Graph, S., Peles, S., Cuoperberg, A., Tako, M., Rotman, R., Grinblat, Y., Openhiem, D., Idlin-Harari, S., Rsabinovitz, O., Zilberstien, M. (2013). Environmentally friendly agriculture- an applied project in the Hula Valley. Special issue on "Environment and Agriculture." *Ecology and Environment* 1:10-12
- 3. Marhaim, U., Cohen, Y., Adler, A., Torgeman, L., Zidenberg, R., Shaltiel-Harpaz, L. (2016). Supply of healthy food without increasing environmental impact -Panel discussion. *Ecology and Environment*, 2:153-165
- 4. **Shaltiel-Harpaz, L.**, **Rak-Yahalom, H.** (2020). The importance of Israeli agriculture in the Corona crisis and future crises. *Ecology and Environment* special online issue on the environmental impact of the corona pandemic.

http://www.magazine.isees.org.il/CurrentIssue.aspx

#### 4. Articles or chapters in refereed books

- 1. **Shaltiel-Harpaz, L.**, Masaphy, S., Tsror, L., & Palevsky, E. (2016). Biorational, environmentally safe methods for the control of soil pathogens and pests in Israel. In *Agriculturally important Microorganisms* (pp. 273-291). Eds. Singh, H. Bahadur., Sarma, B. K., Keswani, .Springer Singapore.
- 2. Shaltiel-Harpaz, L., Tzaban, S. H. (2017). Agro-ecosystems. In Lotan, A., Safriel, U., & Feitelson, E. (Eds.). *Israel national ecosystem assessment: Interim report*. Hamaarag Israel's National Nature Assessment Program. The Steinhardt Museum of Natural History. Tel-Aviv University. (in Hebrew)

#### 5. Refereed conference proceedings

- Groenteman, R., Shaltiel, L., and Coll, M. (2009). Plants as heterogeneous resources for omnivorous bugs in conservation biological control. In Mason, P.G., Gillespie, D.R., and Vincent, C. (ed.), Proceedings Third International Symposium on Biological Control of Arthropods. Christchurch, NZ, 8-13 February 2009. Pp. 258-267
- Niv, A., Shaltiel-Harpaz, L., Rippa, M., Shavit, R., and Horowitz, A. R. (2011). Can tomato be a potential host plant for pink bollworm. In World Cotton Research Conference (Vol. 5, pp. 258-260).
- 3. **Shaltiel-Harpaz, L.**, Levi, M., Palevsky, E., Gal, S., Murin, S., Yermiyahu, U. (2018). Studying the interaction between plant nutrition and pests for the reduction of pesticide use and optimization of fertilizer application. *Proceedings of International IOBC-WPRS Working Group integrated control in protected crops Mediterranean climate*, 04-07 September 2018, INIAV, Oeiras, Lisbon, Portugal.

#### 6. Other articles (in agricultural non-refereed journals in Hebrew)

 Openhiem, D., Palevski, E., Hurovitz, I., Shaltiel-Harpaz, L., Reoveni, H., Aconis, O. (1997). The impact of pesticide free management on harmful and beneficial arthropods in an apple orchard 1994-1996. *Alon Hanotea* 51:346-356

- 2. **Shaltiel-Harpaz, L.,** Openhiem, D. (**2006**). 70 years of pear psylla research In Israel. *Alon Hanotea* 60:29-32
- 3. **Shaltiel-Harpaz,** L., Cuoperberg, A., Rabinovitz, O., Ben-Yakir, D. (2009). Control of *Euborellia Annulipis* (Dermaptera: Labiduridae) in groundnut fields at the Hula valley. *Nir Vatelem* 17:12-17
- 4. **Shaltiel-Harpaz, L.**, Graph, S. (2010). Temporary recommendations for treatment of *Tuta absoluta* in growing tomatoes for industry in open areas. *Mivzak Yerakot* (Publication of vegetable Growers association) 219:9
- 5. **Shaltiel-Harpaz, L.,** Graph, S. (**2010**). *Tuta absoluta* (Lepidoptera: Gelechiidae) A new pest in Israel . *Nir Vatelem* 23:7-10
- Shaltiel-Harpaz, L., Hetzroni, A., Cohen, Y., Tamar, A. (2015). A guide to pest monitoring. Ministry of Agriculture and Rural Development, Training and Professional Service.
   <a href="http://shaham.moag.gov.il/ProfessionalInformation/Pages/Pest\_monitoring\_guide.aspx">http://shaham.moag.gov.il/ProfessionalInformation/Pages/Pest\_monitoring\_guide.aspx</a>
- Shaltiel-Harpaz, L., Gerchman, Y., Ibdah, M., Kedoshim, R., Rachmany, D., Hatib, C., Bar Ya'akov, I., Soroker, V., Holand, D., (2015). Using resistant pear trees to control pear psylla, *Cacopsylla bidens*. *Alon Hanotea* 70: 50-55
- 8. **Shaltiel-Harpaz, L.**, Kedoshim, R., Barshan, I., Rachmani, D., Yahyaa, M., Ibdah, M. (**2017**). Black fig fly: The secret of communication between the Syconium and the fertilizing wasp. *Alon Hanotea* 71 :32-35.
- 9. Eisenbach, O., Bar Ya'akov, I., Hatib, C., Harel Beza, R., Holand, D., Dag, A., Reoveny, H., **Shaltiel-Harpaz, L.**, Ibdah, M. (2020). Detecting the causes for the differences in susceptibility of almond varieties (*Prunus amygdalus*) to the almond wasp (*Eurytoma amygdali*), for facilitating almond breeding. *Alon Hanotea* 74: 18-23
- Gershman Y., Shaltiel-Harpaz L., Noy, M., Lahav, C., Sofer-Arad,
   C. (2020) Ozone in agricultural use: from protecting of the earth to
   controling the mango aphid (*Milviscutulus mangiferae*) Alon Hanotea
   74 2020: 66-69

#### 7. Articles in preparation

Jonas-Levi, A., Martinez, J.-J.I., Danay, O., Shaltiel-Harpaz, L.
 Characterization of nutritional and environmental requirements of the black soldier fly larvae *Hermetia illucens* (L.), (Diptera: Stratiomyidae) for its suitability to treat agricultural plant waste.

#### L. Miscellaneous

#### a. Public or other positions in professional fields:

- I was the head of the Agro-ecosystems group in Hamaarag Israel's National Nature Assessment Program.
- I am a member of the plant protection team at the Sustainable Model Farm at Newe Ya'ar, Newe Ya'ar Research Center, Ramat Yishay, Israel.

#### b. Special contribution to Tel Hai college community:

1. I have participated during the years as a lecturer in 3 courses of Academia Bakikar (Town Square Academy).

In the past year (2020-2021) I have participated Activities for the Community in Tel Hai as a member of:

- 2. The "Staff conversation" (Sheikh Segel)- meeting organization team.
- 3. The Teaching Committee of the environmental studies department.
- 4. The Green Council
- 5. The "Plan of the Century" team

#### c. Non-academic achievements:

- a. For 8 years (2007-2015), I organized winter courses for farmers (6-7 meeting of 6 hours each) about issues of agriculture and environment (with S. Grafh).
- b. I served as the scientist of a sustainable agriculture project in the Hula Valley in 2010-2014. By means of this project, we managed to reduce the use of OP pesticides in the region by 90%.
- c. As a part of the sustainable agriculture project in the Hula Valley, I was involved in developing the "Pest Scout" application, an agricultural data-

management and decision-support system (http://www.pest-scout.co.il) that is now being used by many farmers around the country and the world.

### d. Organization of sessions in conferences:

2013	Organization of a session on pesticides 15th Conference of Galilee Research, 29-30 April 2013, Tel-Hai College.
2015	Organization of a session on pesticides 17th Conference of Galilee Research, 29-30 April 2015, Tel-Hai College.
2015	Organization of a session on entomology for the Field Crop Growers Association, 29 February 2015, Ministry of Agriculture Volcani Center.
2017	Organization of a session on pesticides ,19th Conference of Galilee Research, Tel-Hai College.