

CV [Ofir Degani]

Date: 04 January 2023

1. Personal Details

- Full name: **Ofir Degani**
- Date of birth: **10/1967**
- Country of birth: **Israel**
- Citizenship: **Israel**
- ID number: **023081151**
- Family status: **Married, five children**
- Full home address: **Hativat Givati 43/1, Karmiel, 2199243**
- Cell phone numbers: **972-546780114**
- Work: **Tel-Hai College**, Upper Galilee, Tel-Hai, 12210, Israel;
Migal – Galilee Research Institute, Tarshish 2 Kiryat Shmona, 11016, Israel.
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- E-mail address: d-ofir@migal.org.il (Migal), ofird@telhai.ac.il (Tel-Hai), d-ofir@bezeqint.net (home)

2. Higher Education

- **1993 - 1997** – Bachelor's degree in Biology and certification for teaching at Haifa University (Oranim campus, Israel).
- **1998 - 2001** – Master's degree in biology at the Technion Institute of Technology (Israel). The research was done at the Environmental Biotechnology lab at Migal - Galilee Research Institute, under the supervision of Prof. Carlos Dosoretz and in collaboration with Prof. Shimon Gepstein from the Technion.
- **2001 - 2005** – Doctoral degree in biology at the Technion Institute of Technology (Israel), under the supervision of Prof. Benjamin Horwitz.

- **2005 - 2006** – Post-doctoral fellow at the laboratory of Dr. Doron Goldberg, Migal - Galilee Research Institute (Israel). The research focuses on **"Understanding the Regulation of Fungicides Activity and Resistance through a Fungal Signaling Pathways."**
3. Academic Appointments and Academic Administrative Positions in Institutions of Higher Education
- **2001 - 2017** – A senior lecturer (granting 15/01/2015) and a staff member position at Ohalo College (Israel).
 - **2007 - 2008** – Member of the research committees of Ohalo College (Israel).
 - **2007** - Leading the master's degree program preparation at Ohalo College (Israel).
 - **2007 - 2012** – Member of the pre-veterinary program leading committee in Tel-Hai College (Israel).
 - **2009 - 2012** – A lecturer position at Tel-Hai Technology College (Israel).
 - **2006 - 2019** – A lecturer and a staff member position at Tel-Hai College (Israel).
 - **2007 - 2017** – Research group leader at the Migal - Galilee Research Institute, Molecular Phytopathology lab (Israel).
 - **2017 - Today** – Senior researcher (granting 01/12/2019) and principal investigator at the Migal - Galilee Research Institute, Molecular Phytopathology lab (Israel).
 - **2019 - Today** – Senior lecturer (granting 01/12/2019) and a staff member position at Tel-Hai College (Israel).
 - **2021 - 2022** – Chairman of The Committee for the Advancement of Online Laboratory Courses in collaboration with universities in Israel and abroad, in the Faculty of Science in Tel-Hai College (Israel).
 - **2021 - 2022** – Academic Editor, Special Issue: "Interactions between Microorganisms in Plant Diseases", *Agriculture*. ([Link](#)).

- **2021 - 2022** – Academic Editor, Special Issue: "Roles of Soil and Roots Biotic and Abiotic Conditions in Fungal-Plant Interactions and Plant Performance," *Journal of Fungi*. ([Link](#)).
- **2021 - Today** – Academic Editor, Special Issue: "Roles of Soil and Roots Biotic and Abiotic Conditions in Fungal-Plant Interactions and Plant Performance 2.0," *Journal of Fungi*. ([Link](#)).
- **2022 - Today** – Editorial Board member, *Agrochemicals*. ([Link](#)).
- **2022 - Today** – Associate Editor Board member, Fungi-Plant Interactions, *Frontiers in Fungal Biology*. ([Link](#)).
- **2022 - 2026** – Israel's representative in the COST Action: CA21134 / Towards zero Pesticide AGRiculture: European Network for sustainability (TOP-AGRI-Network), European Cooperation in Science & Technology.

4. Teaching in academic institutions

- **2001 - 2017** – Life of Plants, Ohalo College (Israel), undergraduate, 2 weekly hrs.
- **2001 - 2017** – Plant physiology, Ohalo College (Israel), undergraduate, 2 weekly hrs.
- **2012 - 2016** – Evolution, Ohalo College (Israel), undergraduate, 2 weekly hrs.
- **2012 - 2016** – Molecular biology, Ohalo College (Israel), undergraduate, 2 weekly hrs.
- **2012 - 2017** – Botany, Ohalo College (Israel), undergraduate, 2 weekly hrs.
- **2013 - 2017** – Scientific Excursions, Ohalo College (Israel), undergraduate, 2 weekly hrs.
- **2008 - Today** – Practice in Computational Biochemistry, Tel-Hai College (Israel), undergraduate, 2 weekly hrs.
- **2008 - Today** – Biochemistry Lab, Tel-Hai College (Israel), undergraduate, 4 weekly hrs.
- **2008 - Today** – Experimental Design, Tel-Hai College (Israel), undergraduate, 2 weekly hrs.

5. Supervision of Post-doctoral fellow

- **2017 - 2018** – Dr. Ofra Dahar, Research topic: Involvement of laccases in the maize pathogen *Harpophora maydis* - host interactions.

6. Supervision of Graduate Students

1. **2007 - 2009** – Ran Drori – M.Sc. thesis. Co-supervisor Maggie Levy, The Robert H. Smith Faculty of Agricultural, Food and Environmental Quality Sciences of the Hebrew University of Jerusalem (Israel). Research topic: Involvement of *Harpophora maydis* in wilt of sweet corn: Characterization of the disease cycle and development of protection and control. **Ran Drori was awarded by the Israel Phytopathology Society (IPS, 2009).**
2. **2009 - 2012** – Gilad Cernica – M.Sc. thesis. Co-supervisor Dr. Doron Goldberg. Tel-Hai College (Israel). Research topic: The agent of Late wilt of corn, *Harpophora maydis*, pathogenesis, and control.
3. **2013 - 2015** – Yuval Goldblat – M.Sc. thesis. Co-supervisor Dr. Doron Goldberg. Tel-Hai College (Israel). Research topic: Host physiology and environmental stress involved in the development and pathogenesis of *Harpophora maydis* and the application of seed dressing to control late wilt.
4. **2014** – Shani Cohen – M.Sc. final project, track without a thesis. Tel-Hai College (Israel). Research topic: Environmental conditions regulate the development of the maize late wilt-causal agent, *Harpophora maydis*.
5. **2015 - 2018** – Daniel Moskowitz – M.Sc. thesis. Co-supervisor Dr. Doron Goldberg. Tel-Hai College (Israel). Research topic: Chemical protection against *Harpophora maydis*, the causing agent of maize late wilt.
6. **2017 - 2019** – Shlomit Dor – M.Sc. thesis. Co-supervisor Dr. Doron Goldberg. Tel-Hai College (Israel). Research topic: Inducing resistance and control against *Harpophora maydis*, the cause of the late wilt disease in maize. **Shlomit Dor was awarded by the Israel Phytopathology Society (IPS, 2019).**

7. **2017 - 2020** – Ben Kalman – M.Sc. thesis. Co-supervisor Prof. Rafael Perl-Treves. Faculty of Life Sciences, Bar-Ilan University. Research topic: Involvement of *Fusarium oxysporum* f. sp. *cepae* in onion rot: Characterization of the disease cycle, diagnosis, and control.
8. **2020 - 2022** – Galia Shufman – M.Sc. thesis. Tel-Hai College (Israel). Research topic: Intra-species interaction and inter-relation with *Fusarium verticillioides* in the maize pathogen *Magnaportheopsis maydis* in causing of the maize wilt diseases.
9. **2021 - Today** – Tamir Sonnenberg – M.Sc. thesis. Tel-Hai College (Israel). Co supervisor Dr. Meir Shlisel. Research topic: Vines resistant mechanism towards foliage diseases: *Powdery mildew* and *Downy mildew*.
10. **2022 - Today** – Marlen Bahouth – M.Sc. final project, track without a thesis. Tel-Hai College (Israel). Research topic: The maize late wilt disease agent, *Magnaportheopsis maydis*, geographic distribution, and aggressiveness in Israel.
11. **2022 - Today** – Asaf Gordani – M.Sc. thesis. Tel-Hai College (Israel). Research topic: Combined biological-chemical treatment for eco-friendly control of corn late wilt and cotton charcoal rot diseases in Israel.
12. **03/2023** – M.Sc. thesis. Tel-Hai College (Israel). Research topic: The Microflora of Maize and Cotton Grains as a Biological Barrier against the corn late wilt and cotton charcoal rot diseases in Israel.

7. Research Grants

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

1. **2006 - 2012** – (1) Understanding fungicide activity and resistance regulation through fungal signaling pathways. (2) Involvement of *Harpophora maydis* in causing late wilt disease in corn – diagnosis and control – Ohalo academic college – 27,000 NIS (leading scientist) – publications: 6, 10, 13, 15, 22, 37, 38.

2. **2007** – Diagnosis and control of maize late wilt disease – Israel Northern R&D - 25,000 NIS (leading scientist) – publications: 6, 10, 13, 37, 38.
3. **2008** – Involvement of the fungus *Harpophora maydis* in causing late wilt disease in sweet corn: characterizing the course of the disease and finding ways to control it – The Jewish National Fund, Keren Kayemeth LeIsrael – 50,000 NIS (leading scientist) – collaborators: Prof. Benjamin A Horwitz, Dr. Doron Goldberg, and Mr. Shaul Graph – publications: 6, 10, 13, 22, 37, 38.
4. **2009** – *Harpophora maydis* wilt of corn: Characterization of the disease cycle and development of protection and control – Israel Plant Council, Ministry of Agriculture – 35,000 NIS (leading scientist) – collaborators: Prof. Benjamin A Horwitz, Dr. Doron Goldberg, Dr. Efraim Zuckerman, and Mr. Shaul Graph – publications: 6, 10, 13, 22, 37, 38.
5. **2010** – *Harpophora maydis* wilt of corn: Characterization of the disease cycle and development of protection and control – Israel Plant Council, Ministry of Agriculture – 35,000 NIS (leading scientist) – collaborators: Dr. Efraim Zuckerman and Mr. Shaul Graph – publications: 6, 10, 13, 17, 22, 37, 38.
6. **2011** – *Harpophora maydis* wilt of corn: Characterization of the disease cycle and development of protection and control – Israel Plant Council, Ministry of Agriculture – 15,000 NIS (leading scientist) – collaborators: Mr. Shaul Graph – publications: 6, 10, 13, 17, 22, 37, 38.
7. **2011** – Experiments in eradicating the late dehydration disease in corn – Israel Plant Council, Ministry of Agriculture – 25,000 NIS – collaborators: Dr. Tsafir Weinberg, Mr. Shaul Graph, and Dr. Onn Rabinovitz – publications: 6, 10, 13, 17, 22, 37, 38.
8. **2012** – *Harpophora maydis* wilt of corn: Characterization of the disease cycle and development of protection and control – The Jewish National Fund (Keren Kayemeth LeIsrael) – 25,000 NIS (leading scientist) – collaborators: Mr. Shaul Graph – publications: 6, 10, 13, 17, 22, 37, 38.
9. **2013** – Involvement of *Harpophora maydis* in sweet corn wilt disease: characterizing the disease course and developing ways to eradicate it – Israel Northern R&D – 40,000 NIS (leading scientist) – collaborators: Mr. Shaul Graph – publications: 6, 10, 13, 27, 22, 28, 37, 38.

10. **2014** – Ambient Stresses influence on the development of the maize late wilt
Causing agent, *Harpophora maydis* – Israel Northern R&D – 20,000 NIS
(leading scientist) – publications: 15, 37, 38.
11. **2015 - 2017** – Protection and control against *Harpophora maydis*, the causing
agent of maize late wilt – Israel Ministry of Agriculture and Rural
Development Chief Scientist – 420,000 NIS (leading scientist) – collaborators:
Dr. Mery Dafny Yelin and Mr. Shaul Graph – publications: 20, 21, 22, 23, 26,
37, 38.
12. **2017** – Biological control against *Harpophora maydis*, the maize Late-wilt
disease causal agent – Migal – Galilee Research Institute – 45,000 NIS
(leading scientist) – publications: 31, 37, 38.
13. **2017** – Improved chemical control against the cause of late wilt in corn–
Netafim Ltd. Israel – 8,000 NIS (leading scientist) – collaborators: Dr. Onn
Rabinovitz and Mr. Shaul Graph – publications: 26, 37, 38.
14. **2018** – Thermal detection and chemical control of the maize late wilt causing
agent, *Harpophora maydis* – Israel Organization of extensive cultivation –
25,000 NIS (leading scientist) – collaborators: Dr. Moshe Meron, Dr. Assaf
Chen and Mr. Shaul Graph – publications: 26, 37, 38.
15. **2018** – Interactions between *Magnaportheopsis maydis* and *Macrophomina*
phaseolina, the Causes of Wilt Diseases in Maize and Cotton – Israel Council
for Cotton Production and Marketing Ltd. – 17,000 NIS (leading scientist) –
collaborators: Dr. Roni Cohen and Mr. Shaul Graph – publications: 24, 37, 38.
16. **2018** – Biological control against *Harpophora maydis*, the maize Late-wilt
disease causal agent – Migal – Galilee Research Institute – 140,000 NIS
(leading scientist) – publications: 28, 31, 32, 37, 38.
17. **2018** – Biological control of pests and diseases in cannabis – Migal – Galilee
Research Institute – 90,000 NIS – collaborators: Dr. Haim Reuveni and Dr.
Chen Katz.
18. **2018** – Characterization of the profile of volatiles from the leaves and flowers
of the cannabis plant in response to environmental stress – Migal – Galilee

Research Institute – 90,000 NIS – collaborators: Dr. Haim Reuveni, Dr. Soliman Khatib, and Prof. Jacob Vaya.

19. **2018** – Isolation and Identification of *Fusarium* spp., the Causal Agents of Onion (*Allium cepa*) Basal Rot in Northeastern Israel – Israel Plant Council, Ministry of Agriculture – 41,000 NIS (leading scientist) – collaborators: Mr. Shaul Graph – publications: 25.
20. **2019** – Interactions between *Magnaportheopsis maydis* and *Macrophomina phaseolina*, the Causes of Wilt Diseases in Maize and Cotton – Israel Council for Cotton Production and Marketing Ltd. – 15,000 NIS (leading scientist) – collaborators: Dr. Roni Cohen – publications: 24, 37, 38.
21. **2019** – The presence of *Harpophora maydis* in fodder maize, its interaction with other endophytes in the plant, and its effect on the nutritional value of the corn silage – Israel Organization of extensive cultivation – 25,000 NIS (leading scientist) – collaborators: Dr. Assaf Chen and Dr. Onn Rabinovitz – publications: 32, 37, 38, 39.
22. **2019** – Isolation, characterization, and control of *Fusarium spp. f. sp. cepae*, the cause of the onion basal plate rot, in northern Israel – Israel Plant Council, Ministry of Agriculture – 8,000 NIS (leading scientist) – collaborators: Mr. Shaul Graph – publications: 25.
23. **2019** – **2021** – Using remote sensing tools for the early detection and prevention of soil-borne diseases in field crops, while reducing amounts of pesticides and increasing yield – Israel Ministry of Agriculture and Rural Development Chief Scientist – 450,000 NIS (partial share 82,000 NIS) – collaborators: Dr. Assaf Chen and Dr. Mery Dafny Yelin – publications: 33, 34, 37, 38, 39.
24. **2020** – Isolation and identification of active ingredient against *Magnaportheopsis maydis*, the maize Late-wilt disease causal agent – ICA – Migal accelerator, Israel – 100,000 NIS (leading scientist) – collaborators: Prof. Soliman Khatib – publications: 36, 37, 38, 42.
25. **2020** – Biological control of *Macrophomina phaseolina*, the cotton charcoal rot disease causal agent – Israel Council for Cotton Production and Marketing Ltd. – 20,000 NIS (leading scientist) – publications: 40.

26. **2020** – Eco-friendly control against corn late wilt by strengthening the soil mycorrhizal networks – Tel-Hai College, Israel, Science Relations Foundation – 20,000 NIS (leading scientist) – collaborators: Dr. Hagai Shemesh and Dr. Onn Rabinovitz – publications: 35, 37, 38, 41.
27. **2020** – Chemical control of *Fusarium* spp., the Causal Agents of Onion (*Allium cepa*) Basal Rot – Israel Plant Council, Ministry of Agriculture – 10,500 NIS (leading scientist) – collaborators: Mr. Shaul Graph and Mr. Elyahu Margalit – publications: 30.
28. **2021** – Purification and identification of *Trichoderma asperellum* secreted ingredients with antifungal activity against *Magnaportheiopsis maydis*, the maize late-wilt disease causal agent – Migal – Galilee Research Institute – 40,000 NIS (leading scientist) – collaborators: Prof. Soliman Khatib – publications: 36, 37, 38, 42.
29. **2021** – Cultivars' resistance assay for maize late wilt disease – CTS Group – 14,000 NIS (leading scientist). publications: 45.
30. **2021** – Chemical control of *Fusarium* spp., the Causal Agents of Onion (*Allium cepa*) Basal Rot – Israel Plant Council, Ministry of Agriculture – 18,000 NIS (leading scientist) – collaborators: Mr. Shaul Graph and Mr. Elyahu Margalit – publications: 30, 44.
31. **2022** – Combined biological-chemical pesticide to prevent late wilt in corn – Israel Organization of extensive cultivation – 20,000 NIS (leading scientist) – collaborators: Dr. Onn Rabinovitz – publications: 46.
32. **2022** – Isolation and Identification of *Fusarium* spp., the Causal Agents of Onion (*Allium cepa*) Basal Rot in Northeastern Israel – Israel Plant Council, Ministry of Agriculture – 17,000 NIS (leading scientist) – collaborators: Mr. Shaul Graph and Mr. Elyahu Margalit.
33. **2022** – Isolation and Identification of apple fruits fungal pathogens – Israel Plant Council, Fruit Branch, Ministry of Agriculture – 7,000 NIS – collaborators: Dr. Shaul Naschitz.
34. **2022** – Development of an eco-friendly pesticide interface, based on *Trichoderma* fungi, against the cause of cotton charcoal rot – Israel Council

- for Cotton Production and Marketing Ltd. – 55,000 NIS (leading scientist) – collaborators: Dr. Onn Rabinovitz and Dr. Assaf Chen.
35. **2022** – Developing an Azoxystrobin slow-release clay carrier for eco-friendly control of corn late wilt disease – Tel-Hai College, Israel, Science Relations Foundation – 20,000 NIS (leading scientist) – collaborators: Prof. Giora Rytwo.
36. **2023** – The process of the formation of Alternaria black spot disease in stored persimmons and its prevention through treatments with antioxidants – Tel-Hai College, Israel, Science Relations Foundation – 20,000 NIS (leading scientist) – collaborators: Dr. Shaul Naschitz, Prof. Soliman Khatib, Prof. Dov Prusky.
37. **2023** – Developing an Azoxystrobin slow-release clay carrier for eco-friendly control of corn late wilt disease – ICA Israel (Jewish Colonization Association) – 25,000 \$ (leading scientist) – collaborators: Prof. Giora Rytwo.
38. **2023** – Developing an Azoxystrobin slow-release clay carrier for eco-friendly control of corn late wilt disease – Migal – Galilee Research Institute – 100,000 NIS (leading scientist) – collaborators: Prof. Giora Rytwo.
39. **2023** – Biological enrichment of fodder corn seeds against the late wilt disease – Israel Council for Cotton Production and Marketing Ltd. – 20,000 NIS (leading scientist) – collaborators: Dr. Onn Rabinovitz and Mr. Yoav Golan.

8. Awards and Fellowships

1. 1998 - 2001 – **M.Sc. full fellowship scholarship**, Migal - Galilee Research Institute.
2. 2001 - 2005 – **Ph.D. full fellowship scholarship**, Technion Institute of Technology (Israel).
3. 2003 – **Ph.D. student award for outstanding teaching**, Faculty of Biology, Technion Institute of Technology (Israel).
4. 2004 – **Ph.D. student award for outstanding research**, Faculty of Biology, Technion Institute of Technology (Israel).

5. 2005 – **Travel grant**, the Fungal Genetics Conference organizing committee, the BARD workshop organizing committee, and the Israel Society for Microbiology for participation in the Asilomar, 2005 and BARD workshop, 2005 conferences.
 6. 2015, 2018 - 2022 – **Excellence in Research Acknowledgment**. Tel-Hai College (Israel).
 7. 2016 – 2019, 2021 - 2022 – **Staff member Excellency Acknowledgment**. Tel-Hai College (Israel).
 8. 2021 – **Certificate of appreciation for publishing the highest number of articles in the Faculty of Science**. Tel-Hai College (Israel).
9. Active Participation in Conferences
1. **1999** – Israel Society for Ecology (ISE), Enzymatic hydrolysis of cotton fiber cuticle in textile fabrics, Hifa University, Israel.
 2. **1999** – Israel Society for Microbiology (ISM), Enzymatic hydrolysis of cotton fiber cuticle in textile fabrics, Tel-Aviv University, Israel.
 3. **2000** – Israel Society for Microbiology (ISM), Enzymatic hydrolysis of cotton fiber cuticle in textile fabrics, Tel-Aviv University, Israel.
 4. **2001** – Israel Society for Microbiology (ISM), Phytopathogenic Enzymes and Their Potential Use in Scouring of Natural Fibers, Israel.
 5. **2001** – New Horizons in Biotechnology (NHBT), Enzymatic scouring of cotton fibers in the textile industry: a biotechnology applied to solve environmental pollution, Trivandrum, India.
 6. **2004** – Israel Society for Microbiology (ISM), Enzymatic hydrolysis of cotton fibers, Wohl Center, Bar-Ilan University, Israel.
 7. **2005** – Israel Society for Microbiology (ISM), Enzymatic hydrolysis of cotton fibers, Wohl Center, Bar-Ilan University, Israel.
 8. **2005** – XXIII Fungal Genetics Conference, Signal Transduction and Hydrophobin Gene Expression in the Maize Pathogen *Cochliobolus heterostrophus*, Asilomar Conference Centre, California, USA.

9. **2005** – The US-Israel Binational Agricultural Research and Development Fund (BARD) workshop, Signal Transduction and Hydrophobin Gene Expression in the Maize Pathogen *Cochliobolus heterostrophus*, San Francisco, USA.
10. **2005** – Israel Societies for Experimental Biology - FISEB (ILANIT), G protein and MAPK pathways in the maize pathogen *Cochliobolus heterostrophus*: signaling for gene expression, development and virulence, Eilat, Israel.
11. **2008** – Israel Phytopathology Society (IPS), the 29th Congress of the Israeli Phytopathological Society, Hydrophobins genes expression in the maize pathogen *Cochliobolus heterostrophus*, The Robert H. Smith Faculty of Food, Agriculture, and Environment, Rehovot, Israel.
12. **2008** – The 10th Tel-Hay Research Conference, Development of molecular and biological tests for the detection and characterization of late wilt in corn, Tel-Hay college Israel.
13. **2009** – Israel Agricultural Extension Service, national annual meeting, Involvement of the fungus *Harpophora maydis* in late wilt disease in corn, Agricultural Research Administration, Beit Dagan, Israel, Invited lecture.
14. **2009** – Migal - Galilee Research Institute, The 5th Migal annual meeting, Signal transduction and hydrophobins gene expression in the maize pathogen *Cochliobolus heterostrophus*, Hagoshrim, Israel.
15. **2009** – Israel Phytopathology Society (IPS), the 30th Congress of the Israeli Phytopathological Society, Plants hormone effect on the development of the maize late wilt agent, *Harpophora maydis*, Agricultural Research Administration, Beit Dagan, Israel.
16. **2009** – Israel Society for Microbiology (ISM), Plants hormone effect on the development of the maize late wilt agent, *Harpophora maydis*, Wohl Center, Bar-Ilan University.
17. **2010** – Israel Agricultural Extension Service, North R&D annual meeting, The late wilt causal agent, *Harpophora maydis*, pathogenesis and control, Field crops experimental farm, Hula Valley, north Israel, Invited lecture.

18. **2010** – Israel Scientific Society of field crops and vegetables, An annual seminar on the research's fruits in field crops and vegetables, The late wilt causal agent, *Harpophora maydis*, pathogenesis and control, The Robert H. Smith Faculty of Food, Agriculture, and Environment, Rehovot, Israel.
19. **2010** – Migal - Galilee Research Institute, The 7th Migal annual meeting, The late wilt disease in corn: characterization of the disease course and identify ways to eradicate it, Hagoshrim, Israel.
20. **2010** – Israel Society for Microbiology (ISM), Late wilt of maize: characterization of the pathogenesis and identifying means of control, Wohl Center, Bar-Ilan University.
21. **2010** – Israel Phytopathology Society (IPS), the 31st Congress of the Israeli Phytopathological Society, Late wilt of maize: Characterization of the pathogenesis and identifying means of control, The Robert H. Smith Faculty of Food, Agriculture, and Environment, Rehovot, Israel.
22. **2010** – The US-Israel Binational Agricultural Research and Development Fund (BARD) Trichoderma Workshop, Haifa, Israel, organizing committee member.
23. **2011** – Israel Societies for Experimental Biology - FISEB (ILANIT), Diagnosis and control of maize late wilt disease, Eilat Israel.
24. **2011** – Migal - Galilee Research Institute, The 7th Migal annual meeting, Pathogenesis and control of the maize late wilt, Hagoshrim, Israel.
25. **2011** – The 13th Tel-Hay Research Conference, Late wilt of maize: Characterization of the pathogenesis and identifying means of control, Tel-Hay college Israel, Session Organizing committee, and Speaker.
26. **2012** – Israel Agricultural Extension Service, North R&D annual meeting, New findings in the study of late wilt in corn, field crops experimental farm, Hula Valley, north Israel, Invited lecture.
27. **2013** – Israel Agricultural Extension Service, North R&D annual meeting, The late wilt causal agent, *Harpophora maydis*, pathogenesis and control, Field crops experimental farm, Hula Valley, north Israel, Invited lecture.

28. **2013** – Israel Society for Microbiology (ISM), The agent of late wilt of corn, *Harpophora maydis*, pathogenesis and control, Wohl Center, Bar-Ilan University.
29. **2013** – The 15th Tel-Hay Research Conference, The agent of late wilt of corn, *Harpophora maydis*, pathogenesis and control, Tel-Hay college Israel, Session Organizing committee and Speaker.
30. **2014** – Israel Agricultural Extension Service, North R&D annual meeting – Involvement of the fungus *Harpophora maydis* in causing late wilt disease in corn - Field crops experimental farm, Hula Valley, north Israel, Invited lecture.
31. **2014** – The 16th Tel-Hay Research Conference, The late wilt causal agent, *Harpophora maydis*, pathogenesis and control, Tel-Hay college Israel. Session Organizing committee and Speaker.
32. **2015** – Israel Ministry of Education, Division for Gifted and Outstanding Students, 8th conference of Excellency, Enzymatic hydrolysis of cotton fabrics cuticle components, Wohl Center, Bar-Ilan University, Israel, Invited lecture
33. **2015** – Israel Phytopathology Society (IPS), the 36th Congress of the Israeli Phytopathological Society, *Cochliobolus heterostrophus* G-protein and MAPK signaling pathways control the fludioxonil fungicide activity and resistance, Agricultural Research Administration, Beit Dagan, Israel.
34. **2015** – Israel Society for Microbiology (ISM), annual meeting, The agent of late wilt of corn, *Harpophora maydis*, pathogenesis and control, The Wohl Centre, Bar-Ilan University, Ramat-Gan, Israel.
35. **2015** – The 17th Tel-Hay Research Conference, *Cochliobolus heterostrophus* G-protein and MAPK signaling pathways control the fludioxonil fungicide activity and resistance, Tel-Hay college Israel. Session Organizing committee and Speaker.
36. **2016** – Israel Agricultural Extension Service, North R&D annual meeting, The late wilt causal agent, *Harpophora maydis*, pathogenesis and control, Field crops experimental farm, Hula Valley, north Israel, Invited lecture.

37. **2016** – Israel Plant ecology, Ambient stresses regulate the development of the maize late wilt causing agent, *Harpophora maydis*, Tel-Hay college Israel.
38. **2016** – Israel Phytopathology Society (IPS), the 37th Congress of the Israeli Phytopathological Society, Plant hormones regulate the development of *Harpophora maydis*, the cause of late wilt in maize, Agricultural Research Administration, Beit Dagan, Israel.
39. **2016** – Israel Molecular Mycology Meeting (MMM), A qPCR-based method for detection and monitoring *Harpophora maydis* inside the host tissues, Faculty of Medicine, Technion Institute of Technology, Israel.
40. **2016** – The 18th Tel-Hay Research Conference, Plant growth hormones suppress the development of *Harpophora maydis*, the cause of late wilt in maize, Tel-Hay college Israel, Session Organizing committee and Speaker.
41. **2017** – Israel Agricultural Extension Service, North R&D annual meeting, The late wilt causal agent, *Harpophora maydis*, pathogenesis and control, Field crops experimental farm, Hula Valley, north Israel, Invited lecture.
42. **2017** – The 10th Annual International Symposium on Agricultural Research, Athens Institute for Education and Research Greece, A qPCR-based method for evaluating the efficiency of seed coating against maize Late wilt disease, Athens, Greece, Invited lecture and Session chair.
43. **2017** – The 9th conference of Excellence in Education, Israel Ministry of Education, Division for Gifted and Outstanding Students, Israel. Session chair.
44. **2017** – Netafim, annual meeting, Chemical treatment using drip irrigation and seed dressing against maize Late wilt disease in the field, Hatzerim, Israel. Invited lecture
45. **2017** – The 19th Tel-Hay Research Conference, qPCR-based method for detection and monitoring *Harpophora maydis* inside the host tissues, Tel-Hay college Israel, Session Organizing committee, and Speaker.
46. **2017** – Israel Phytopathology Society (IPS), the 38th Congress of the Israeli Phytopathological Society, A qPCR-based method for detecting and monitoring *Harpophora maydis* inside the host tissues, Agricultural Research Administration, Beit Dagan, Israel.

47. **2018** – Israel Agricultural Extension Service, national annual meeting, Seeds coating and chemical protection using driplines irrigation to prevent late wilt disease in cornfields, Ein Harod (Ihud), Jezreel Valley, Israel, Invited lecture.
48. **2018** – Migal - Galilee Research Institute, The 14th Migal annual meeting, Biological control against *Harpophora maydis*, the maize late-wilt disease causal agent, Hagoshrim, Israel.
49. **2018** – The 11th International Congress of Plant Pathology, ICPP, Uncovering host range for the maize pathogen *Harpophora maydis*, Boston, USA.
50. **2018** – The 14th European Conference on Fungal Genetics, ECFG14, Chemical protection using drip irrigation and seed coating against maize late wilt disease in the field, Israel, workshop co-chair and Poster presentation.
51. **2018** – Annual Congress on Plant Science and Biosecurity, ACPB-2018, Chemical protection using drip irrigation and seed coating against maize late wilt disease in the field, Spain. Invited lecture.
52. **2018** – Israel Phytopathology Society (IPS), the 39th Congress of the Israeli Phytopathological Society, Seed coating and drip protection against *Harpophora maydis* in the field, Agricultural Research Administration, Beit Dagan, Israel.
53. **2018** – The 20th Tel-Hay Research Conference, Seed coating and drip protection against *Harpophora maydis* in the field, Tel-Hay college Israel, session organizing committee, session chair, and Speaker.
54. **2019** – Israel Council for Cotton Production and Marketing Ltd., the 2018 season annual research reporting, Interactions between *Magnaporthe oryzae* and *Macrophomina phaseolina*, the causes of wilt diseases in maize and cotton, Ministry of Agriculture, Beit Dagan, Israel.
55. **2019** – Migal - Galilee Research Institute, The 17th Migal annual meeting, Interactions between *Harpophora maydis* and *Macrophomina phaseolina*, the causes of wilt disease, in cotton and maize, Hotel Galilion, Yesud HaMa'ala, Israel.
56. **2019** – Israel Scientific Society of field crops and vegetables, An annual seminar on the research's fruits in field crops and vegetables, Combining

pesticides to prevent late wilt disease in corn in the field, The Robert H. Smith Faculty of Food, Agriculture, and Environment, Rehovot, Israel.

57. **2019** – 12th Annual International Symposium on Agricultural Research, Athens Institute for Education and Research, Greece. The hidden life of the maize pathogen, *Harpophora maydis*, Athens, Greece, Invited lecture.
58. **2019** – Annual meeting of the Kdam' Atidim Project, Israel Ministry of Education, Division for Gifted and Outstanding Students, Diagnosis and control of *Harpophora maydis*, the cause of late wilt in maize, Tel-Aviv, Israel. Invited lecture.
59. **2019** – Annual Conference of Excellence in Education, Israel Ministry of Education, Division for Gifted and Outstanding Students, Israel. Online meeting, Session chair.
60. **2019** – Israel Phytopathology Society (IPS), the 40th Congress of the Israeli Phytopathological Society, New host range for the maize pathogen *Harpophora maydis*, Agricultural Research Administration, Beit Dagan, Israel.
61. **2019** – The 21st Tel-Hay Research Conference, The interaction between *Macrophomina phaseolina* and *Harpophora maydis* as pathogens in corn and cotton, Tel-Hay college Israel. session organizing committee, session chair, and Speaker.
62. **2020** – Shamir Research Institute, Conference on land reclamation and conservation, The interaction between *Macrophomina phaseolina* and *Harpophora maydis* as pathogens in corn and cotton, Katzrin, Israel.
63. **2020** – Migal - Galilee Research Institute, The 17th Migal annual meeting, Isolation and Identification of *Fusarium* spp., the Causal Agent of Onion (*Allium cepa*) Basal Rot in Northeastern Israel, Hotel Galilion, Yesud HaMa'ala, Israel.
64. **2020** – Israel Council for Cotton Production and Marketing Ltd., the 2018 season annual research reporting, Interactions between *Magnaporthe oryzae* and *Macrophomina phaseolina*, the causes of wilt diseases in maize and cotton, Ministry of Agriculture, Beit Dagan, Israel.

65. **2020** – Israel Organization of extensive cultivation, The R&D Research Report annual meeting for the 2019 Season, The presence of *Harpophora maydis* in fodder maize, its interaction with other endophytes in the plant, and its effect on the nutritional value of the corn silage, Ministry of Agriculture, Beit Dagan, Israel.
66. **2020** – The 22nd Tel-Hay Research Conference, Study of the interactions between *Macrophomina phaseolina* and *Magnaportheopsis maydis*, as pathogens in cotton and corn, Tel-Hay college Israel. The session organizing committee and Speaker.
67. **2021** – Agricultural Science Conference in Israel, A green solution to maize late wilt disease, The Wohl Centre, Bar-Ilan University, Ramat-Gan, Israel.
68. **2021** – Israel Council for Cotton Production and Marketing Ltd., the 2018 season annual research reporting, Biological control against *Macrophomina phaseolina*, the cotton charcoal rot causal agent, Ministry of Agriculture, Beit Dagan, Israel.
69. **2022** – Migal - Galilee Research Institute, The 19th Migal annual meeting, Pathogenic variations and geographic distribution in Israel of *Magnaportheopsis maydis*, the causal agent of late wilt of maize, Hotel Galilion, Yesud HaMa'ala, Israel.
70. **2022** – Functional Mycology Conference, Tel-Hai 2022. Organizing committee and session chair.
71. **2022** – Israel Society for Microbiology (ISM), A green solution to maize late wilt disease, Ben-Gurion University, Be'er Sheva, Israel.
72. **2022** – Israel Phytopathology Society (IPS), the 41st Congress of the Israeli Phytopathological Society, Isolation, Identification, and Control of *Fusarium* spp., the Causal Agents of Onion Basal Rot in Northeastern Israel, Agricultural Research Administration, Beit Dagan, Israel.
73. **2022** – The 24th Tel-Hay Research Conference, Assessment of susceptibility of maize varieties to late wilt disease caused by *Magnaportheopsis maydis* using remote sensing tools, Tel-Hay college Israel. The session organizing committee, session chair, and Speaker.

74. **2022** – The 2nd International Conference on Plant Science and Biology, Plant Science Webinar 2022, A green solution to maize late wilt disease, Invited lecture.
75. **2022** – 50th Israel Annual Conference on Science and the Environment. Pathogenic interactions between *Macrophomina phaseolina* and *Magnaportheopsis maydis* in mutually infected cotton sprouts. Tel-Aviv, Israel.
76. **2022** - Israel Plant Council, Ministry of Agriculture, Research Report annual meeting for the 2022 Season, Prevention and control of *Fusarium* spp. *cepae*, The Causal Agent of Onion (*Allium cepa*) Basal Rot. Agricultural Research Administration, Beit Dagan, Israel.
77. **2022** – Annual Growers seminar, Arava R&D, Israel, Interactions between *Magnaportheopsis maydis* and *Macrophomina phaseolina*, the causes of wilt diseases in maize and cotton. Netiv HaLamed-Heh, Israel. Invited lecture.
78. **2023** - Israel Scientific Society of field crops and vegetables, An annual seminar on the research's fruits in field crops and vegetables. Interactions between *Magnaportheopsis maydis* and *Macrophomina phaseolina*, the causes of wilt diseases in maize and cotton. The Robert H. Smith Faculty of Food, Agriculture, and Environment, Rehovot, Israel. Invited lecture.

10. Non-Academic Activity & Positions

1. **2014 - 2017** – Head of the North Israel Group of Centers for Gifted and Talented Children, Israel Ministry of Education, Division for Gifted and Outstanding Students (Israel).
2. **2008 - 2021** – Director of the Tel-Hai Center of Science and Knowledge for Gifted and excellent Children at Tel-Hai Academic College, Israel Ministry of Education, Division for Gifted and Outstanding Students (Israel).
3. **2022 - Today** – Leading the graduates' students program at the Tel-Hai Center of Science and Knowledge for Gifted and excellent Children at Tel-Hai

Academic College, Israel Ministry of Education, Division for Gifted and Outstanding Students (Israel).

11. Publications

1. M.Sc. thesis

Enzymatic hydrolysis cuticular components of cotton fiber". (2001) Technion Institute of Technology (Israel). The research was done at the Environmental Biotechnology lab at Migal - Galilee Research Institute, under the supervision of Prof. Carlos Dosoretz and in collaboration with Prof. Shimon Gepstein from the Technion.

2. Ph.D. thesis

G protein and MAPK pathways in the maize pathogen *Cochliobolus heterostrophus*: signaling for gene expression, development and virulence. (2005) Technion Institute of Technology (Israel), under the supervision of Prof. Benjamin Horwitz.

3. Articles in refereed journals

1. **Degani, O.,** Gepstein, S. & Dosoretz, C. G. Potential use of cutinase in enzymatic scouring of cotton fiber cuticle. *Applied Biochemistry and Biotechnology*. (2002), 102 (1), 277-289. ([Free full-text Link](#)).

IF (2.926)^b, five years-IF (2.685), Citations number^d (118), Journal Rank and Quartile: Biotechnology and Applied Microbiology (Q3); Biochemistry and Molecular Biology (Q3).

2. **Degani, O.,** Gepstein, S. & Dosoretz, C. G. A new method for measuring scouring efficiency of natural fibers based on the cellulose-binding domain-beta-glucuronidase fused protein. *Journal of Biotechnology*. (2004), 107 (3), 265-273. ([Free full-text link](#)).

IF (3.307)^b, five years-IF (3.778), Citations number^d (29), Journal Rank and Quartile: Biotechnology and Applied Microbiology (Q2).

3. **Degani, O.**, Maor, R., Hadar, R., Sharon, A. and Horwitz, B. A. Host physiology and pathogenic variation of *Cochliobolus heterostrophus* strains with mutations in the G protein alpha subunit, CGA1. *Applied and Environmental Microbiology*. (2004), 70 (8), 5005-5009. ([Free full-text link](#)).

IF (5.005)^b, five years-IF (5.260), Citations number^d (30), Journal Rank and Quartile: Biotechnology and Applied Microbiology (Q1); Microbiology (Q2).

4. **Degani, O.**, Salman, H, Gepstein, S and Dosoretz, C. G. Synthesis and characterization of a new cutinase substrate, 4-nitrophenyl (16-methyl sulfone ester) hexadecanoate. *Journal of Biotechnology*. (2006), 121 (3), 346-350. ([Free full-text link](#)).

IF (3.307)^b, five years-IF (3.778), Citations number^d (25), Journal Rank and Quartile: Biotechnology and Applied Microbiology (Q2).

5. Igbaria A., Lev S., Rose M. S, Lee B. N., Hadar R., **Degani O.**, and Horwitz B. A. Distinct and combined roles of the MAP kinases of *Cochliobolus heterostrophus* in virulence and stress responses, *Molecular Plant-Microbe Interactions*. (2008), 21 (6), 769-80. ([Free full-text link](#)).

IF (4.171)^b, five years-IF (4.836), Citations number^d (74), Journal Rank and Quartile: Plant Sciences (Q1); Biochemistry and Molecular Biology (Q2).

6. Drori R., Goldberg D., Rabinovitz O., Sharon A., Levy M. and **Degani O.**^a Molecular diagnostic for *Harpophora maydis*, the cause of late wilt disease in northern Israel. *Phytopathologia Mediterranea*. (2013), 52 (1), 16–29. ([Free full-text link](#)).

IF (2.020)^b, five years-IF (2.080), Citations number^d (48), Journal Rank and Quartile: Agronomy (Q2); Plant Sciences (Q2).

7. **Degani, O.** ^a *Cochliobolus heterostrophus* G-protein alpha and beta subunit double mutant reveals shared and distinct roles in development and virulence, *Physiological and Molecular Plant Pathology*. (2013), 82, 35-45. ([Free full-text link](#)).

IF (2.741) ^b, five years-IF (2.388), Citations number ^d (8), Journal Rank and Quartile: Plant Sciences (Q2).

8. **Degani, O.** ^a, Lev, S. and Ronen M. Hydrophobin gene expression in the maize pathogen *Cochliobolus heterostrophus*, *Physiological and Molecular Plant Pathology*. (2013), 83, 25-34 ([Free full-text link](#)).

IF (2.741) ^b, five years-IF (2.388), Citations number ^d (11), Journal Rank and Quartile: Plant Sciences (Q2).

9. **Degani, O.** Construction of a constitutively activated G α mutant in the maize pathogen *Cochliobolus heterostrophus*. *American Journal of Plant Sciences*. (2013), 4 (12), 2394-2399. ([Free full-text link](#)).

IF (1.17) ^c, five years-IF (n/a), Citations number ^d (2), Journal Rank and Quartile: n/a

10. **Degani, O.** ^a and Cernica, G. Diagnosis and Control of *Harpophora maydis*, the Cause of Late Wilt in Maize. *Advances in Microbiology* (2014), 4 (2), 94-105. ([Free full-text link](#)).

IF (1.04) ^c, five years-IF (n/a), Citations number ^d (33), Journal Rank and Quartile: n/a

11. **Degani, O.** Gene expression modulation of two biosynthesis pathways via signal transduction in *Cochliobolus heterostrophus*. *Advances in Bioscience and Biotechnology* (2014), 5 (4), 340-352. ([Free full-text link](#)).

IF (0.87) ^c, five years-IF (n/a), Citations number ^d (3), Journal Rank and Quartile: n/a

12. **Degani, O.** G protein and MAPK signaling pathways control the ability of *Cochliobolus heterostrophus* to exploit different carbon sources. *Advances in Biological Chemistry* (2014), 4 (1), 40-50. ([Free full-text link](#)).

IF (0.74) ^c, five years-IF (n/a), Citations number ^d (3), Journal Rank and Quartile: n/a

13. **Degani, O.** ^a, Weinberg T. and Graph, S. Chemical control of maize late wilt in the field. *Phytoparasitica* (2014), 42 (4), 559-570. ([Free full-text link](#)).

IF (1.439) ^b, five years-IF (1.569), Citations number ^d (21), Journal Rank and Quartile: Agronomy (Q2); Plant Sciences (Q3).

14. **Degani, O.** Pathogenicity Assay for *Cochliobolus heterostrophus* G-Protein and MAPK Signaling Deficiency Strains. *American Journal of Plant Sciences* (2014), 5 (9), 1318-1328. ([Free full-text link](#)).

IF (1.17) ^c, five years-IF (n/a), Citations number ^d (8), Journal Rank and Quartile: n/a

15. **Degani, O.** ^a and Goldblat Y. Ambient Stresses Regulate the Development of the Maize Late Wilt Causing Agent, *Harpophora maydis*. *Agricultural Sciences* (2014), 5 (7), 571-582. ([Free full-text link](#)).

IF (1.19) ^c, five years-IF (n/a), Citations number ^d (17), Journal Rank and Quartile: n/a

16. **Degani, O.** Mediation of Fungicide Fludioxonil Activity and Resistance through *Cochliobolus heterostrophus* G-protein and MAPK Signaling Pathways. *Phytoparasitica* (2015), 43 (2), 215-228. ([Free full-text link](#)).

IF (1.439)^b, five years-IF (1.569), Citations number^d (4), Journal Rank and Quartile: Agronomy (Q2); Plant Sciences (Q3).

17. **Degani, O.**^a, Drori R. and Goldblat Y. Plant growth hormones suppress the development of *Harpophora maydis*, the cause of late wilt in maize. *Physiology and Molecular Biology of Plants* (2015), 21 (1), 137-149. ([Free full-text link](#)).

IF (2.391)^b, five years-IF (2.836), Citations number^d (28), Journal Rank and Quartile: Plant Sciences (Q2).

18. **Degani, O.** Production and purification of cutinase from *Fusarium oxysporum* using modified growth media and specificity cutinase substrate. *Advances in Bioscience and Biotechnology* (2015), 6 (4), 245-258. ([Free full-text link](#)).

IF (0.87)^c, five years-IF (n/a), Citations number^d (7), Journal Rank and Quartile: n/a

19. **Degani, O.** *Cochliobolus heterostrophus* T-toxin gene expression modulation via G protein and MAPK pathways. *Plant Protection Science* (2015), 51 (2), 53–60. ([Free full-text link](#)).

IF (1.414)^b, five years-IF (1.862), Citations number^d (1), Journal Rank and Quartile: Agronomy (Q3); Plant Sciences (Q3).

20. **Degani O.**^a, Dor S., Movshowitz D., Fraidman E., Rabinowitz O. and Graph S. Effective chemical protection against the maize late wilt causal agent, *Harpophora maydis*, in the field. *PLoS ONE* (2018), 13 (12), e0208353 ([Free full text link](#)).

IF (3.240)^b, five years-IF (3.788), Citations number^d (27), Journal Rank and Quartile: Multidisciplinary Sciences 26/73 (Q2).

21. **Degani O.**^a, Movshowitz D., Dor S., Meerson A., Goldblat Y., and Rabinovitz O. Evaluating Azoxystrobin seed coating against maize late wilt disease using

a sensitive qPCR-based method. *Plant Disease* (2019), 103 (2)238-248 . ([Free full-text Link](#)).

IF (4.438) ^b, five years-IF (4.700), Citations number ^d (23), Journal Rank and Quartile: Plant Sciences (Q1).

22. **Degani O.** ^a, Dor S., Movshovitz D. and Rabinovitz O. Methods for Studying *Magnaportheopsis maydis*, the Maize Late Wilt Causal Agent. *Agronomy* (2019), 9 (4), 181. ([Free full-text link](#)).

IF (3.949) ^b, five years-IF (4.117), Citations number ^d (22), Journal Rank and Quartile: Agronomy (Q1); Plant Sciences (Q1).

23. Dor S. and **Degani O.** ^a Uncovering the host range for maize pathogen *Magnaportheopsis maydis*. *Plants* (2019), 8 (8), 259. ([Free full-text link](#)).

IF (4.658) ^b, five years-IF (4.827), Citations number ^d (16), Journal Rank and Quartile: Plant Sciences (Q1).

24. **Degani, O.** ^a, Dor, S., Abraham, D., Cohen, R. Interactions between *Magnaportheopsis maydis* and *Macrophomina phaseolina*, the causes of wilt diseases in maize and cotton. *Microorganisms* (2020), 8 (2), 249. ([Free full-text link](#)).

IF (4.926) ^b, five years-IF (5.143), Citations number ^d (22), Journal Rank and Quartile: Microbiology (Q2).

25. Kalman, B., Abraham, D., Graph, S., Perl-Treves, R., Meller Harel, Y., **Degani, O.** ^a Isolation and Identification of *Fusarium* spp., the causal agents of onion (*Allium cepa*) basal rot in northeastern Israel. *Biology* (2020), 9 (4), 69. ([Free full-text link](#)). **Editor's choice**.

IF (5.168) ^b, five years-IF (n/a), Citations number ^d (24), Journal Rank and Quartile: Biology (Q1).

26. **Degani, O.**^a, Dor, S., Chen, A., Orlov-Levin, V., Stolov-Yosef, A., Regev, D., Rabinovitz, O. Molecular tracking and remote sensing to evaluate new chemical treatments against the maize late wilt disease causal agent, *Magnaportheopsis maydis*. *Journal of Fungi* (2020), 6 (2), 54. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (15), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

27. **Degani, O.**^a, Goldblat, Y. Potential role of laccases in the relationship of the maize late wilt causal agent, *Magnaportheopsis maydis*, and its host. *Journal of Fungi* (2020), 6 (2), 63. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (3), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

28. **Degani O.**^a, Regev D., Dor S., and, Rabinowitz O. Soil bioassay for detecting *Magnaportheopsis maydis* infestation using a hyper susceptible maize hybrid. *Journal of Fungi* (2020), 6 (3), 107. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (10), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

29. **Degani O.** Synergism between Cutinase and Pectinase in the Hydrolysis of Cotton Fibers' Cuticle. *Catalysts* (2021), 11 (1), 84. ([Free full-text link](#)).

IF (4.501)^b, five years-IF (4.641), Citations number^d (4), Journal Rank and Quartile: Chemistry, Physical (Q2).

30. **Degani, O.**^a and Kalman, B. Assessment of Commercial Fungicides against Onion (*Allium cepa*) Basal Rot Disease Caused by *Fusarium oxysporum* f. sp. *cepae* and *Fusarium acutatum*. *Journal of Fungi* (2021), 7 (3), 235. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (3), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

31. **Degani, O.**^a and Dor S. *Trichoderma* Biological Control to Protect Sensitive Maize Hybrids against Late Wilt Disease in the Field. *Journal of Fungi* (2021), 7 (4), 315. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (18), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

32. **Degani, O.**^a, Regev, D., and Dor, S. The Microflora of Maize Grains as a Biological Barrier against the Late Wilt Causal Agent, *Magnaportheopsis maydis*. *Agronomy* (2021), 11 (5), 965. ([Free full-text link](#)).

IF (3.949)^b, five years-IF (4.117), Citations number^d (7), Journal Rank and Quartile: Agronomy (Q1); Plant Sciences (Q1).

33. **Degani, O.**^a, Rabinovitz O., Becher P., Gordani A., Chen A. *Trichoderma longibrachiatum* and *Trichoderma asperellum* Confer Growth Promotion and Protection against Late Wilt Disease in the Field. *Journal of Fungi* (2021), 7 (6), 444. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (9), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

34. Chen A., Jacob M., Shoshani G., Dafny-Yelin M., **Degani O.**, Rabinovitz O. Early detection of soil-borne diseases in field crops via remote sensing. *Precision agriculture '21* (2021), Editor John V. Stafford. 217 – 224. ([Link](#)).

IF (n/a)^b, five years-IF (n/a), Citations number^d (1), Journal Rank and Quartile: n/a

35. **Degani, O.**^a, Gordani A., Becher P. and Dor, S. Crop Cycle and Soil Cultivation Role in the Outbreak of Late Wilt Disease of Maize, caused by

Magnaportheopsis maydis. *Journal of Fungi* (2021), 7 (9), 706. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (3), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

36. **Degani, O.**^a, Khatib, S., Becher, P., Gordani, A., Harris, R. *Trichoderma asperellum* Secreted 6-Pentyl- α -Pyrone to Control *Magnaportheopsis maydis*, the Maize Late Wilt Disease Agent. *Biology* (2021), 10 (9), 897. ([Free full-text link](#)).

IF (5.168)^b, five years-IF (6.413), Citations number^d (7), Journal Rank and Quartile: Biology (Q1).

37. **Degani O.** A Review: Late Wilt of Maize—The Pathogen, the Disease, Current Status and Future Perspective. *Journal of Fungi* (2021), 7 (11), 989. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (5), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

38. **Degani, O.** Control Strategies to Cope with Late Wilt of Maize. *Pathogens* (2022), 11, 13. ([Free full-text link](#)).

IF (4.531)^b, five years-IF (4.580), Citations number^d (3), Journal Rank and Quartile: Microbiology (Q2).

39. **Degani, O.**^a, Chen, A., Dor, S. Orlov-Levin, V., Jacob M., Shoshani G. and Rabinovitz O. Remote evaluation of maize cultivars susceptibility to late wilt disease caused by *Magnaportheopsis maydis*. *Journal of Plant Pathology* (2022) 104, 509–525. ([Free full-text link](#)). **Editor's choice.**

IF (1.729)^b, five years-IF (1.681), Citations number^d (0), Journal Rank and Quartile: Plant Sciences (Q3).

40. **Degani, O.**^a, Becher P., Gordani A. Pathogenic interactions between *Macrophomina phaseolina* and *Magnaportheopsis maydis* in mutually infected cotton sprouts. *Agriculture* (2022), 12 (2), 255. ([Free full-text link](#)).

IF (3.408)^b, five years-IF (3.459), Citations number^d (1), Journal Rank and Quartile: Agronomy (Q1).

41. **Degani, O.**^a, Gordani, A.; Becher, P., Chen, A. Rabinovitz, O. Crop Rotation and Minimal Tillage Selectively Affect Maize Growth Promotion under Late Wilt Disease Stress. *Journal of Fungi* (2022), 8(6):586. ([Free full-text link](#)).

IF (5.724)^b, five years-IF (6.413), Citations number^d (0), Journal Rank and Quartile: Microbiology (Q2); Mycology (Q1).

42. **Degani, O.**^a and Gordani, A. New Antifungal Compound, 6-Pentyl- α -Pyrone, against the Maize Late Wilt Pathogen, *Magnaportheopsis maydis*. *Agronomy* (2022), 12 (10), 2339. ([Free full-text link](#)).

IF (3.949)^b, five years-IF (4.117), Citations number^d (0), Journal Rank and Quartile: Agronomy (Q1); Plant Sciences (Q1).

43. Shofman G., Bahouth M. and **Degani, O.**^a Aggressive strains of the late wilt fungus of corn exist in Israel in mixed populations and can specialize in disrupting growth or plant health. *Fungal Biology* (2022), 126(11-12), 793-808. ([Link](#))

IF (2.910)^b, five years-IF (3.435), Citations number^d (0), Journal Rank and Quartile: Mycology (20/29).

44. **Degani, O.**^a, Elhanan D., Gordani, A., Graph S., and Margalit E. Prevention and control of *Fusarium* spp. *cepae*, The Causal Agent of Onion (*Allium cepa*) Basal Rot. *Horticulturae* (2022), 8 (11), 1071. ([Free full-text link](#)).

IF (2.923) ^b, five years-IF (3.582), Citations number ^d (0), Journal Rank and Quartile: Horticulture (Q1).

45. **Degani, O.** ^a, Yifa R., Chen, A., Gordani A., and Becher P. Cultivars resistance assay for maize late wilt disease. *Biology* (**2022**), 11(12), 1854. ([Free full-text-link](#)).

IF (5.168) ^b, five years-IF (n/a), Citations number ^d (24), Journal Rank and Quartile: Biology (Q1).

46. Gordani A., Hijazi B., Dimant E., and **Degani, O.** ^a Integrated Biological and Chemical Control Against the Maize Late Wilt Agent *Magnaportheopsis maydis*. *Soil Systems* (**2023**), 7(1), 1. ([Free full-text-link](#)).

CiteScore 2021 (4.9), five years-IF (n/a), Citations number ^d (0), Journal Rank and Quartile: Soil Science (34/145), Earth-Surface Processes (36/155).

^a Corresponding author

^b Official 2021 impact factor – ISI Web of Science – Journal Citation Report

^c The 2-year Google-based Journal Impact Factor, 2020-2021 (2-GJIF) based on Thomson Reuters' (TR) algorithm as published on <http://wokinfo.com/essays/impact-factor>

^d Based on Google scholar 16/06/2022 (see [here](#))

4. Articles or chapters in refereed books

1. **Degani, O.** Accurate virulence test method for *Cochliobolus heterostrophus* wild-type and mutant strains in the post-genomic era. In Pathogenicity of *Cochliobolus* Species in Post Genomic Era. 1st Edition. Bengyella L. and Devi Waikhom S. (Eds.). Stadium Press LLC, Texas, USA, (**2017**) Chapter 4, 92-111.
2. **Degani O.** A Green Solution to Maize Late Wilt Disease. In *Trichoderma: Taxonomy, Biodiversity and Applications*. Nova Science Publishers, Inc. (**2023**) in press.

3. **Degani O.** Late Wilt of Maize—The Pathogen, the Disease, Current Status, and Future Perspective. In “Plant-Pathogen Interaction” [Dr(s) Praveen Kumar Verma, Sonal Mishra, Vikas Srivastava & Shakti Mehrotra (Eds). Springer Nature Publishers. Switzerland. (2023) under review.

5. Articles in non-refereed journals
 1. **Degani O.** *Harpophora maydis* in wilt of sweet corn: Characterization of the disease cycle and development of protection and control. *Yevul-Si*, The Journal of Israel Advance Agriculture, Special publication of the Northern R&D. (2008). The article is in Hebrew.
 2. **Degani O.** Maize late wilt disease - background and new findings. *Sade Vayerek*, The professional magazine of Israel Vegetable Growers Organization. (2009), 10, 51-52. The article is in Hebrew. ([Full-text link](#)).
 3. **Degani O.** Late wilt of corn, pathogenesis, and control. *Nir Vatelem*, The professional magazine of Israel Extensive Cultivation Organization. (2011), 32, 10-13. The article is in Hebrew. ([Free full-text link](#)).
 4. **Degani O.** Inquiry vs. research. Gifted, outstanding students and knowledge seekers (M.M.CH) *Journal of the Division for gifted and talented students*, Israel Ministry of education, February, (2013). The article is in Hebrew. ([Free full-text Link](#)).
 5. **Degani O.** A molecular assay for *Harpophora maydis*, the cause of maize late wilt disease. *Nir Vatelem*, The professional magazine of Israel Extensive Cultivation Organization. (2013), 49, 24-31. The article is in Hebrew. ([Free full-text link](#)).
 6. **Degani O.**^a, Goldblat Y. and Cohen S. Environmental conditions regulate the development of the maize late wilt causal agent, *Harpophora maydis*. *Nir Vatelem*, The professional magazine of Israel Extensive Cultivation

- Organization. (2015), 57, 24-30. The article is in Hebrew. ([Free full-text Link](#)).
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