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Agricultural Engineering

Gilat
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Plant Protection, Entomology and the Nematology and Chemistry units

Research Interests / Job description



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Research Interests / Job description
Plant-parasitic nematodes.

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LIST OF PUBLICATIONS

A. Articles in Reviewed Journals

1. Cohn, E., Feder, W. A. and **Mordechai, M.** (1968). The growth response of citrus to nematocide treatments. *Israel J. Agric. Res.* 18: 19-24.
2. Cohn, E. and **Mordechai, M.** (1968). A case of intersexuality and occurrence of males

in *Longidourus africanus*. *Nematologica* 14: 591.

3. Cohn, E. and **Mordechai, M.** (1969). Investigations on the life cycles and host preference of some species of *Xiphinema* and *Longidorus* under controlled conditions. *Nematologica* 15: 295-302.
4. Cohn, E. and **Mordechai, M.** (1970). The influence of some environmental and cultural conditions on rearing populations of *Xiphinema* and *Longidorus*. *Nematologica* 16: 85-93.
5. Cohn, E. and **Mordechai, M.** (1974). Specificity of *Longidorus cohnii* as a pathogen of oats. *Phytoparasitica* 2: 45-46.
6. Cohn, E. and **Mordechai, M.** (1974). Experiments in suppressing citrus nematode populations by use of a marigold and a predaceous nematode. *Nematol. Medit.* 2: 43-53.
7. Cohn, E. and **Mordechai, M.** (1977). Uninucleate giant cell induced by *Rotylenchulus macrodoratus*. *Phytoparasitica* 5: 85-93.
8. Himmelhoch, S., Cohn, E., **Mordechai, M.** and Zuckerman, B.M. (1979). Changes in fine structure of citrus root cells induced by *Tylenchulus semipenetrans*. *Nematologica* 25: 333-335.
9. **Mordechai, M.** (1981). A new method for extracting nematodes from soil. *Spec. Public. Agric. Res. Orgn.*, Bet Dagan. 209: 217-219.
10. Siti, E., Cohn, E., Katan, J. and **Mordechai, M.** (1982). Control of *Ditylenchus dipsaci* in garlic by bulb and soil treatments. *Phytoparasitica* 10: 93-100.
11. Cohn, E. and **Mordechai, M.** (1982). Biology and host-parasite relations of a species of *Meloidoderita* (Nematoda: Criconematoidea). *Rev. Nématol.* 5: 247-256.

12. Cohn, E. and **Mordechai, M.** (1983). Wall structure of the mature female and cystoid body of *Meloidoderita kirjanovae* (Nematoda: Criconematoidea). *J. Nematol.* 15: 325-327.
13. Cohn, E. and **Mor (Mordechai), M.** (1988). Morphology and parasitism of the mature female of *Rotylenchulus macrosomus*. *Rev. Nématol.* 11: 385-389.
14. **Mor, M.**, Cohn, E. and Spiegel, Y. (1992). Phenology pathogenicity and pathotypes of the cereal cyst nematodes, *Heterodera avenae* and *H. latipons* (nematodea: Heteroderidae) in Israel. *Nematologica*. 38: 494-501.
15. **Mor, M.** and Spiegel, Y. (1993). *Ruscus hypophyllum*: A new host for *Aphelenchoides fragariae*. *J. Nematol.* 25: 312-313.
16. **Mor, M.** and Spiegel, Y. (1993). Infection of *Narcissus* roots by *Aphelenchoides subtenuis*. *J. Nematol.* 25: 476-479.
17. Grinstein, A., Kritzman, G., Hetzroni, A., Gamliel, A., **Mor, M.** and Katan, J. (1995). The border effect of soil solarization. *Crop Prot.* 14: 315-320.
18. Spiegel, Y., **Mor, M.** and Sharon, E. (1996). Attachment of *Pasteuria penetrans* endospores to the surface of *Meloidogyne javanica* second-stage juveniles. *J. Nematol.* 28: 328-334.
19. Oka, Y., Chet, I., **Mor, M.** and Speigel, Y. (1997). A Fungal Parasite of *Meloidogyne javanica* Eggs: Evaluation of its Use to Control the Root-knot Nematode. *Biocontrol Sci. Technol.* 7: 489-497.
20. Rivkin, H., **Mor, M.** and Chejanvosky, N. (1998). Isolation, Replication and Polyhedrin Gene Sequence of an Israeli *Helicoverpa Armigera* Single Nucleopolyhedrovirus. *Virus Genes*. 17: 11-19.
21. Oka, Y., Koltai, H., Bar-Eyal, M., **Mor, M.**, Sharon, E.,

- Chet, I. and Spiegel, Y. (2000). New Strategies for the control of plant-parasitic nematodes. *Pest Mang. Sci.* 56: 983-988.
22. Oka, Y., Koltai, H., Bar-Eyal, M., **Mor, M.**, Sharon, E., Chet, I. and Spiegel, Y. (2000). Chemical and non-chemical control of phytophagous nematodes. *Acta Hort.* 532: 177-182.
23. Oka, Y., Karssen, G. and **Mor, M.** (2003). Identification, host range and infection process of *Meloidogyne marylandi* from turf grass in Israel. *Nematology* 5: 727-734.
24. Reuven, M., Szmulewich, Y., Kolesnik, I., Gamliel, A., Zilberg, V., **Mor, M.**, Cahlon, Y. and Ben-Yephet, Y. (2005). Methyl bromide alternatives for controlling *Fusarium* wilt and root-knot nematodes in carnations. *Acta Hort.* 698: 99-104
25. **Mor, M.** and Oka, Y. (2006). Histological study of giant cells formed by the root-knot nematode *Meloidogyne artiellia* as compared with *M. hapla* and *M. javanica* in cabbage, turnip and barley. *Phytoparasitica* 34: 502-509.
26. Oka, Y., Tkachi, N., and **Mor, M.** (2007). Phosphite inhibits development of the nematodes *Heterodera avenae* and *Meloidogyne marylandi* in cereals. *Phytopathology* 97: 396-404.
27. Maafi, Z. T., Sturhan, D., Handoo, Z., **Mor, M.**, Moens, M. and Subbotin, S. A. (2007). Morphological and molecular studies on *Heterodera sacchari*, *H. goldeni* and *H. leuceilyma* (Nematoda: Heteroderidae). *Nematology* 9: 483-497.
28. **Mor, M.**, Spiegel, Y. and Oka, Y. (2008). Histological study of syncytia induced in cereals by the Mediterranean cereal cyst nematode, *Heterodera latipons*. *Nematology* 10: 279-287.

B. Articles in Non-reviewed Journals

1. Siti, E., Cohn, E., Katan, J. and **Mordechai, M.** (1982). Control of *Ditylenchus dipsaci* in garlic by bulb treatments and soil sterilization. *Hassadeh* 63: 624-627 (in Hebrew).
2. Hadar, E., Sopher, S., Brosh, S., **Mordechai, M.**, Cohn, E. and Katan, J. (1983). Control of cyst nematodes in carnation. *Hassadeh* 63: 1698-1700. (in Hebrew with English summary).
3. Cohn, E. and **Mor, M.** (1986). Investigations on the cereal cyst nematode in Israel. *Hassadeh* 66: 658-663 (in Hebrew with English summary).
4. **Mor, M.** and Cohn, e. (1989). New nematode pathogens in Israel: *Meloidogyne* on wheat and *Hoplolaimus* on cotton. *Phytoparasitica* 17: 3.
5. **Mor, M.** (1989). Cereal cyst nematodes, *Heterodera avenae* and *H. latipons*, as a limiting factor in wheat production in Israel. *Hassadeh* 70: 206-211 (in Hebrew).
6. Ben-Yephet, Y. and **Mor, M.** (1991). Leaf damage caused to ruscus plants by phytonemtodcs. *Hassadeh* 71: 1051 (in Hebrew).
7. **Mor, M.** and Spiegel, Y. (1992). Nematodes attacking cereals in Israel. I. Forecast of damag from nematodes in cereals. *Hassdeh* 72: 532-534 (in Hebrew).
8. Spiegel, Y. and **Mor, M.** (1992). Nematodes attacking cereals in Israel. II. Determination of races of the nematode *Heterodera avenae*. *Hassadeh* 72: 535-536 (in Hebrew).
9. **Mor, M.** (1992). Plant-parasitic nematodes in *Ruscus*. *Dapei Meda* 2: 83 (in Hebrew).
10. **Mor, M.**, Vaza, A., Yaakobi, A., Sharet, N., Ralko, R., Kozodoi, Y. and Spiegel, Y. (1994). Nematodes attacking cereals -

management and Forecast of damage (1993). *Gan Sadeh and Meshek* 4: 10-14 (in Hebrew).

11. **Mor, M.**, Bar-Eyal, M., Kozodoi, Y., Gnizi, A. and Sando, Z. (1995). Parasitic nematodes on *Ruscus* plants and how to avoid the losses they cause. *Hassadeh* 75: 61-66 (in Hebrew).
12. **Mor, M.** (1995). *Ditylenchus dipsaci* - Nematodes in garlic groves. *Gan Sadeh and Meshek* 10: 58-59 (in Hebrew).
13. **Mor, M.** (1995). Prevention of nematodes in the new citrus plantations in the Negev. *Hassadeh* 75: 41-42 (in Hebrew).
14. **Mor, M.** (1995). The root-knot nematode *Meloidogyne artiellia* in Israel - distribution, hosts and host-parasite relations. *Hassadeh* 75: 67-70 (in Hebrew).
15. Spiegel, Y., Chet, I., **Mor, M.**, Kleifeld, O., Sharon, E. and Bar-Eyal, M. (1996). *Trichoderma* preparation as a biocontrol mean of the root-knot nematode *Meloidogyne javanica*. *Hassadeh International* 1: 18-22.
16. **Mor, M.** and Spiegel, Y. (1998). *Tylenchulus semipenetrans*, the Citrus Nematode, and *Xiphinema brevicolle* are present in the New Citrus Plantations in the Northern Negev. *Alon Hanotea* 52: 264-269 (in Hebrew with English Summary).
17. **Mor, M.** (1998). The nematode *Pratylenchus vulnus* as the casual agent of apple plantations decline in Israel, and means for reducing their damage. *Alon Hanotea*: 52: 486-490 (in Hebrew).
18. **Mor, M.** (2000). Nematode parasites of Vineyards in Israel. *Alon Ha'notea* 54: 66-72 (in Hebrew).
19. **Mor, M.** and Gottlieb, Y. (2001). Nematodes on flowers. *Dapei Meda* 12: 50-54.

20. **Mor (Mordechai), M.** (2001). Nematodes en la floricultura Israeli y metodos de prevencion. *Agrotecnologia en Israel. Edicion.* 2001, 26-29.
21. **Mor, M.** and Gips, A. (2006). Plant-pathogenic nematodes in recycled water. *Water and Irrigation* 477: 10-13 (in Hebrew).
22. **Mor, M.** (2007). The effect of irrigation methods on damage caused by plant-parasitic nematodes. *Water and Irrigation* 485: 12-15 (in Hebrew).
23. **Mor, M.** and Sharon, E. (2008). Nematodes in ornamentals. *Olam Haperach* June-July: 28-30 (in Hebrew).
24. Ben-Yephet, Y., Reuven, M., **Mor, M.** and Mor Y. (2008). Control of soil-born plant diseases in ornamentals. *Olam Haperach* June-July: 16-17 (in Hebrew).
25. **Mor, M.**, Perez, S., and Kozodoi, E. (2010). Plant-parasitic nematodes on pomegranate in Israel. *Alon Hanotea* 64 No.6: 21-23 (in Hebrew).
26. **Mor, M.** (2010). Effect of irrigation methods on nematode damage on plants. *Alon Hanotea* 64 No.6: 24-27 (in Hebrew).
27. **Mor, M.** and Goren, M. (2010). Plant-parasitic nematodes on lychee in Israel. *Alon Hanotea* 64 No. 7: 36-38 (in Hebrew).
28. **Mor, M.**, Sharon, E., Kozodoi, E., Avidan, B., and Meni, Y. (2010). Plant-parasitic nematodes on olive in Israel. *Alon Hanotea* 64 No. 10: 33-36 (in Hebrew).

C. Abstracts of oral presentations

1. Cohn, E., Feder, W.A. and **Mordechai, M.** (1967). Response of citrus seedlings to soil treatment for controlling citrus nematode and other soil

organisms. Summaries 1st *Israel Plant Path. Congress*, Rehovot, p. 98 (in Hebrew).

2. Cohn, E. and **Mordechai, M.** (1967). The distribution of *Xiphinema* and *Longidorus* species and factors affecting their population levels. *Summaries IXth International Nematology Symposium*, Warsaw, Poland, pp. 5-6.
3. Cohn, E. and **Mordechai, M.** (1973). Biological control of the citrus nematode. *Phytoparasitica* 1: 132.
4. Cohn, E. and **Mordechai, M.** (1976). Ultrastructure of hypertrophied cell induced in soybean roots by *Rotylenchulus macrodorus*. *Abstracts, 13th International Nematol. Symposium*. Dublin, Ireland, p. 17-18.
5. Cohn, E. and **Mordechai, M.** (1981). Biology of species of *Meloidoderita* found in Israel. *Nematropica* 11: 77-78.
6. Siti, E., Cohn, E., Katan, J., **Mordechai, M.** and Admati, E. (1981). Trials for controlling *Ditylenchus dipsaci* on garlic. *Phytoparasitica* 9: 230.
7. Cohn, E. and **Mor, M.** (1990). Phenology, pathogenicity and management of cereal cyst nematodes in a Mediterranean region. *Abstracts, 8th Congress of the Mediterranean Phytopathological Union*, Agadir, Morocco.
8. Grinstein, A., Hetzroni, A., Kritzman, G., Gamliel, A., **Mor, M.** and Katan, J. (1990). The border effect of soil solarization. *Phytoparasitica* 18: 85.
9. **Mor, M.** (1990). Cereal cyst nematodes, *Heterodera avenae* and *H. latipons*, as a limiting factor in wheat production in Israel. *Phytoparasitica* 18: 90.
10. **Mor, M.**, Hokas, M., Sando, Z., Shmulevitz, Y. and Ben-Yephet, Y. (1992). Foliar nematodes in *ruscus hypophyllum*. The XIII Meeting of the Israeli Phytopathological Society, Volcani Center, Bet

Dagan, Israel (in Hebrew).

11. **Mor, M.** and Spiegel, Y. (1992). Morphological and cytological changes induced in cereal roots by *Heterodera latipons*. ESN 21st. International Nematology Symposium, Albufeira, Portugal.
12. **Mor, M.**, Fahn, A. and Spiegel, Y. (1992). Morphological and cytological changes induced in cereal roots by the cereal cyst nematodes *Heterodera avena* and *H. latipons*. *Israel J. Botany* 2: 41.
13. **Mor, M.** (1993). Identification of the nematode *Aphelenchoides subtenuis* as the causal agent of *Narcissus sunken basal plate disease*. *Phytoparasitica* 21: 147.
14. **Mor, M.**, Kushnir, U., Kozodoi, Y. and Spiegel, Y. (1994). Pathogenicity and host-parasite interactions of the nematode *Heterodera avenae* and wild grasses in Israel. *Phytoparasitica* 22: 77-78.
15. **Mor, M.**, Kushnir, U., Kozodoi, Y. and Spiegel, Y. (1994). Nematode effect on wild grasses development in cereal grown fields in Israel. The XIII Meeting of the Weed Science Society of Israel, The Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel p. 12 (in Hebrew).
16. **Mor, M.** (1995). Morphological and cytological changes induced in plant roots by the root-knot nematode *Meloidogyne artiellia*. *Phytoparasitica* 23: 269.
17. **Mor, M.**, Cohn, E. and Oppenheim, D. (1996). The involvement of the nematodes *Pratylenchus* in apple and *Rotylenchus* in cherry trees decline in the northern region of Israel. *Phytoparasitica* 24: 177-178.
18. Spiegel, Y., Chet, I., **Mor, M.**, Kleifeld, O., Sharon, E. and Bar-Eyal, M. (1996). *Trichoderma*

harzianum preparation as a biocontrol agent against the root-knot nematode *Meloidogyne javanica*. International conference. "Technology transfer in biological control: from research to practice". Montpellier, France p. 22.

19. Spiegel, Y., **Mor, M.** and Sharon, E. (1996). Attachment of *Pasteuria penetrans* spores to the surface of *Meloidogyne javanica* second-stage juveniles. *Third International Nematology Congress*, Gosier, Guadeloupe p. 132.
20. **Mor, M.**, Ben-Anat, S. and Spiegel, Y. (1997). *Tylenchulus semipenetrans*, the Citrus Nematode, and *Xiphinema brevicolle* are Present in the New Citrus Plantations in the Northern Negev. *Phytoparasitica* 25: 1.
21. Sharon, E., Bar-Eyal, **M.**, **Mor, M.**, Kleinfeld, O., Chet, I. and Spiegel, Y. (1998). Biological Control of *Meloidogyne javanica* by *Trichoderma* preparations: mode of action. *Nematologica* 44: 581.
22. Sharon, Edna., Bar-Eyal, **M.**, **Mor, M.**, Kleinfeld, O., Chet, I. and Spiegel, Y. (1999). Activity of Fungus *Trichoderma harzinaumon* Plant-Parasitic Nematodes. *Phytoparasitica* 27: 158-159.
23. **Mor, M.** (2000). A novel apparatus for extraction of nematodes from soil. *Nematology* 2: 776.
24. **Mor, M.** and Sturhan, D. (2000). On the identity of *Heterodera latipons* Franklin. *Nematology* 2: 776-777.
25. Bar-Eyal, M., Spiegel, Y., **Mor, M.** and Sharon, E. (2000). *Chrysanthemum coronarium* as 'green manure' to control plant-parasitic nematodes. *Phytoparasitica* 28: 273.
26. **Mor, M.** (2000). A novel apparatus for extraction of nematodes from soil. *Nematology* 2: 776.

27. Reuven, M., **Mor, M.**, Szmuelewic, Y., Kolesnik, I., Gamliel, A., Mor, Y. and Ben-Yephet, Y. (2001). Control of *Fusarium* and root-knot nematodes in carnations using steam or chemicals. *Phytoparasitica* 29: 266.
28. Ben-Yephet, Y., Reuven, M., Kolesnik, I., Shteinberg, D., Bar-Eyal, M. and **Mor, M.** (2002). Combined resistance of *Fusarium* and root-knot nematodes in carnations. *Phytoparasitica* 30: 311.
29. Reuven, M., Ben-Yephet, Y., Szmuelewic, Y., Kolesnik, I., Gamliel, A., Zilberg, V., Cahlon, Y. and **Mor, M.** (2002). Control of *Fusarium* and root-knot nematodes in carnations using steam or Chemicals. *Phytoparasitica* 30: 309.
30. **Mor, M.** (2002). Comparative histology of feeding sites of *Meloidogyne artiellia* and *M. javanica*. *Nematology* 4: 234.
31. Oka, Y., Karssen, G. and **Mor, M.** (2004). First report of the root-knot nematode *Meloidogyne marylandi* on turfgrasses in Israel. *Plant Dis.* 88: 309.
32. **Mor (Mordechai), M.** and Sharon, E. (2004). An examination of microtubules in galls induced by *Meloidogyne javanica* in transgenic *Arabidopsis thaliana*. The XXVII European Society of Nematologists, International Symposium. Rome, Italy.
33. Oka, Y., Karssen, G. and **Mor, M.** (2004). The root-knot nematode *Meloidogyne*
34. Oka, Y., Karssen, G. and **Mor, M.** (2004). First report of the root-knot nematode *Meloidogyne marylandi* on turfgrasses in Israel. *Plant Dis.* 88: 309.
35. **Mor (Mordechai), M.** (2004). Plant-pathogenic nematodes in recycled water. *Phytoparasitica* 32: 204.
36. **Mor, M.**, Gottlieb, Y. and Harkavi, E. (2005).

Screening of grape rootstocks for resistance to the nematode *Xiphinema index*. *Phytoparasitica* 33: 287.

37. Maafi, Z. T., Sturhan, D., Handoo, Z., **Mor, M.**, Moens, M. and Subbotin, S. A. (2005). Morphological and molecular characterisation of *Heterodera sacchari* Luc & Merny, 1963 and *H. goldeni* Handoo & Ibrahim, 2002 (Nematoda: Heteroderidae). *Russ. J. Nematol.* 13: 152-153.
38. Sharon, E., **Mor, M.**, Bar-Eyal, M., Oka, Y., van Kerckhove, S., Vanachter, A., Chet, I. and Spiegel, Y. (2009). TrichoNema: A *Trichoderma*-based project to develop a commercial bio-agent product against phyto-nematodes. *7th International Symposium on Chemical and Non-chemical Soil Substitute Disinfestation SD 2009*. p. 63.
39. Oka, Y., Gozel, U., Spiegel, Y. and **Mor, M.** (2009). Cereal cyst nematodes in Israel, and their biology and control strategies. In: Cereal Cyst Nematodes: Status, Research and Outlook (*Proceedings of the first international cereal cyst nematode initiative workshop*). p 118-123.

D. Book chapters and invited reviews

1. **Mor, M.** and Biton, S. (1999). Nematodes parasitic to ornamentals in Israel. pp.79-86, In: Biton S. (Ed.) *Pests and their control in the garden*. Ministry of Agriculture and Rural Development, Israel. (in Hebrew)
2. **Mor, M.** (1999). Nematode parasites of Vineyards in Israel. Pp. 61-65, In Ministry of Agriculture and Rural Development, Israel. (in Hebrew)

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