

**Curriculum Vitae**

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**Mohamed Aly Mahmoud Radwan , Ph. D.**

## Designation

Professor of Pesticide Chemistry and Toxicology, Pesticide Chemistry & Technology Dept., Faculty of Agriculture, University of Alexandria, Alex., Egypt.

## Personal Data

Born11 February 1956, in Alexandria, Egypt, Married with two children; Taher (Born, 1988), Sherin (Born, 1991).

### Mailing Address

Department of Pesticide Chemistry & Technology, Faculty of Agriculture, Aflaaton Street, University of Alexandria, Alexandria, Egypt, 21545

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###### *Qualifications*

##### Ph. D. awarded March 1989

* M.Sc. February 1984

##### B.Sc. (Agriculture Science), June 1978, average grade "Excellent with honor"

Pesticide Chemistry Dept., Faculty ofAgriculture, Alexandria University, Alex., Egypt.

Academic Position

* Professor of Pesticide Chemistry and Toxicology, 1999- present.
* Associate Professor of Pesticide Chemistry and Toxicology, 1994-1999.
* Assistant Professor of Pesticide Chemistry and Toxicology, 1989-1994.
* Assistant Lecturer, Faculty of Agriculture, University of Alexandria, 1984-1989.
* Demonstrator, Faculty of Agriculture, University of Alexandria, 1978-1984.

***Teaching Experience***

 **(Chemistry Courses):**

* Teaching basic and advanced Analytical Chemistry for under and post-graduate students.
* Teaching basic and practical Physical and Organic Chemistry for under-graduate students.
* Teaching Principles of Instrumental Analysis for post-graduate students.

 (Pesticide Courses):

* Teaching Pesticide Residue Analysis for under and post-graduate students.

* Teaching Chemistry and Toxicology of Pesticides for under and post-graduate students.
* Teaching Biology and control of plant parasitic nematodes and land gastropods for under and post-graduate students.
* Teaching Basic information of pesticides for under-graduate students.
* Participated in pesticide seminars for post-graduate students.

 (Environment Courses):

* Teaching environmental pollution with pesticides and heavy metals for post-graduate students.
* Teaching methods used for the removal of pollutant from the environment for post-graduate students.

 ***Field Research of Specialization***

* Pesticide residues on crops in relation to yield components and quality.
* Degradation of pesticides in agricultural ecosystem and environment.
* Persistence of pesticides in relation to their impact on biochemical processes in soil.
* Chemical and non-chemical control of agricultural animal pests (e.g. plant parasitic nematodes & gastropods).
* Toxicological and biochemical studies of pesticides on some pests.
* The joint action of chemicals against target and non- target organisms.
* Pharmacokinetics and metabolism of pesticides and toxicants in animals.
* Oxidative stress and tissue damage induced by metals and pesticide containing metals.
* Analysis of pesticide residues and heavy metals in vegetables, crops, meat and dairy products.
* Biomonitoring of heavy metals in the environment using terrestrial snails as bioindicators.
* Bioremediation and biodegradation of pesticides using soil microorganisms.

 ***Additional Skills***

**Experience in using the following Instruments:-**

* Gas Chromatography (GLC)
* High Performance Liquid Chromatography (HPLC)
* Atomic Absorption Spectroscopy (AAS)

Experience in using the following Computer Programs:-

* Windows (Word, Excel, dBase, Power Point), Chemwind, Harvard Graphics and Costat Software

***Participation and Attended in Conferences***

* BioVision Alexandria 2006 "New Life Sciences: Changing Lives, *Bibliotheca Alexandrina*, Alex., Egypt, 26-29 April, 2006.
* The XXVI Annual Meeting of the Brazilian Society of Nematology Universidade Estadual do Norte Fluminense, Campos dos Goytacazes (RJ), Brazil, 12-17 February, 2006.
* XVth International Plant Protection Congress "The First Great Gathering for Plant Protection in The21th Century" Beijing, China, 11-16 May, 2004.
* BioVision Alexandria 2004 "The New Life Sciences: Ethics, Patents and the poor, *Bibliotheca Alexandrina*, Alex., Egypt, 3-6 April, 2004.
* The 20th Anniversary Conference of The Egyptian Society of Toxicology. *Bibliotheca Alexandrina*, Alex., Egypt, 18-19 February, 2004.
* The First International Egyptian- Romanian Conference "Towards new trends for plant protection and environment conservation", Plant Protection Department, Zagazig University, Egypt, December, 2003.
* The Second International Conference of Pest Control, Mansoura University, Egypt, September, 1999.
* The First International Conference of Pest Control, Mansoura University, Egypt, 1995
* Chaired in Pesticides and Environment Session of the First National Congress on Studies of insects in Lybia, Faculty of Agriculture, Omar El-Mokhtar University, Lybia, 1995
* The Crop Health Conference " Pest Management and Environment", Fayoum, Egypt, March, 1994
* The Second Alexandria Conference on Food Science and Technology, Alexandria University, Egypt, March, 1992
* The Symposium of IPM and Environmental Protection, Alexandria University, Egypt, November, 1990
* The First Alexandria Conference on Food Science and Technology, Alexandria University, Egypt, March, 1990
* The Seven Arab Pesticide Conference, Tanta University, Egypt, September, 1989
* The Second National Conference of Pests and Diseases of Vegetable and Fruit Crops in Egypt, Ismailia, Egypt, October, 1987
* International Symposium on Crop Protection, Faculteit Van De Landbouwwestenschappen Rijksuniversiteit, Gent, Belgium, May, 1985
* The Second International Congress for Soil Pollution and Protection from Pesticide Residues, Zagazig University, Egypt, September, 1985
* The Second Egyptian-Hungarian Conference of Plant Protection, Alexandria University, September, 1982

#### Academic Honors

Alexandria University Prize of Merit in Agriculture Sciences, the academic year 1992.

***Books Published***

Fundamental of Analytical Chemistry, 2014.

Practical Analytical Chemistry, 2014.

#### Supervision of Thesis and Dissertations

**i) Doctoral Dissertations Chaired**

* Management of root-knot nematodes, *Meloidogyne* spp. using some nematicides, botanical and microbial agents, 2012-
* Biomarkers as diagnostic tools to monitor the effects of some pollutants on *Theba pisana* snails, 2011-
* Studies on the analysis and side effect of certain pesticide residues, 1996-2001

* Studies on formulation and efficacy of certain toxic agents, 1994-1999
* Environmental effects of some pesticides, 1990-1994

**ii) Masters Thesis Chaired**

* Chemistry and bioactivity of certain natural products, 2001-2003
* Environmentally safe alternatives for controlling root-knot nematodes, 1999-2003
* Studies on the formulation and efficiency of certain nematicides, 1990-1993
* Studies on analysis and side effect of Actellic and Reldan residues, 1989-1992
* Effect of certain carbamate pesticides on the land snail, *Eobania vermiculata*: Histopathological, histochemical and biochemical studies (Collaboration with Faculty of Science), 2001- 2006
* Environmental and toxicological studies of some pollutants on land snails, 2004-2008
* Studies on the management of root-knot nematodes, *Meloidogyne* spp. infecting tomato, 2007-2011

***Membership in Scientific Societies***

* Egyptian Society of Pest Control and Environmental Protection, Faculty of Agriculture, University of Alexandria, Egypt.
* Pesticide Science Society of Japan.
* Alexandria Journal of Agricultural Research, Faculty of Agriculture, University of Alexandria.
* Journal of Pest Control and Environmental Sciences, Department of Pesticide Chemistry, Faculty of Agriculture, University of Alexandria.
* Alexandria Science Exchange, Faculty of Agriculture, University of Alexandria.
* Communications in Science and Development Research, Faculty of Agriculture, University of Alexandria.
* Journal of Pesticide Science (Japan).

 ***Reviewer in Scientific journals***

* Technical Editor of theJournal of ***Pest Control and Environmental Sciences***
* Review articles submitted for consideration in the international journal of:
* *Environmental Research*
* *Environmental Pollution*
* *Chemosphere*
* *Ecotoxicology and Environmental Safety*
* *Bulletin of Environmental Contamination & Toxicology*
* *Toxicological and Environmental Chemistry*
* *Pesticide Biochemistry & Physiology*
* *Water, Air and Soil Pollution*
* *Process Biochemistry*
* *Molluscan Research*
* *Journal of Applied phycology*
* *Forest Pathology*
* *Polish Journal of Environmental Studies*
* *African Journal of Biotechnology*
* *African Journal of Plant Science*
* *African Journal of Agricultural Research*
* *International Research Journal of Agricultural science and Soil Science*
* *Journal of Agricultural**Science and Technology*
* *Journal of Soil Science and Environmental Management*
* *Emirates Journal of Agricultural Sciences*

***Contributions, Consultations and Services***

* Member of the Agricultural Pesticides Committee, Ministry of Agriculture, Egypt since October, 2006-2009 and 2015.
* Member of the team for extinction to Egyptian farmers in the field of plant protection sponsored by the Egyptian Organization of Agricultural Development
* Sharing activity in extinction and environmental services including pest control and analysis of pesticide residues for environmental samples (e.g. Soil, water and Food stuffs).
* Member of the team for training lectures and practical to Yemeni trainer sponsored by FAO in the area of residue analysis in food.
* Member of the team of Pest Control and Environmental Protection Unit for consultation and services
* Participated in New Land Agricultural Services Project, IFAD/NLASP-EG-306 (Training Unit).
* Collaborative in Research Project of Maternal Pesticide Exposures and Central Nervous System Defects (CNSD) in Alexandria, Egypt. WHO Project Grant No. RPC.10/20, R6/18/3
* Participated in several doctoral qualifying oral committees and in Master and Doctor examination.
* Participated in the development of the contents of pesticides residue analysis and nematode control courses.

***List of Publications***

1. Abu Elamayem MM, El-Shoura MY, **Radwan MA**, Ahmed AH and Abd El-All A. 1985. Joint action effect of some nematicides and benomyl against *M. incognita*and *R. solani* on soybean. *Landbouww - Rijksuniv*. Gent 50/3a, 839-50.
2. **Radwan** **MA**, Antonious GF, Abdel-All A and Sabra FS. 1990. Influence of field applications of some carbamate insecticides on chlorophyll content of sweet potato leaves and certain microbiological processes in soil *J. Pest Control & Enivron. Sci*., **2**:63-71.
3. Ahmed AH and **Radwan MA**.1990. Effect of five conventional nematicides on growth of certain pathogenic and nitrogen fixing bacteria. *Alex. Sci. Exch*., **11** (4): 47-59.
4. El-Doksch HA, **Radwan MA** and Abo El-Fadl I. 1991. Antifeeding and synergistic activity of chenopodium and dill extracts and carvone on *Spodoptera littoralis* (Boisd). (Lepidoptera: Nocturidae). *Com. Sci. & Dev. Rev*., **33**:249-63.
5. **Radwan MA,** Salama AK and Ahmed AH. 1991. Biodegradation of aldicarb and methamidophos by two soil fungi. *Alex. J. Agric. Res.,* **36** (3): 315-25.
6. **Radwan MA** and El-Wakil HB. 1991. Impact of certain carbamate and synthetic pyrethroid insecticides on the non target terrestrial snail, *Eubania vermiculata*. *Alex. Sci. Exch*., **12** (2): 305-16.
7. El-Wakil HB and **Radwan MA.** 1991. Biochemical studies on the terrestrial snail, *Eubania vermiculata* (Muller) treated with some pesticides. *J. Environ. Sci. & Health* B **26** (5 & 6): 479-89.
8. **Radwan MA,** Kassem FA and Shawir MS. 1991. Studies on acetylcholinesterase in the white garden snail *Theba pisana* (Muller). *Alex. Sci. Exch*. **12** (2): 335-49.
9. Antonious GF, Abdel-All A. and **Radwan MA.** 1991. Population fluctuations and chemical control of the predominant sweet potato insects at Abis area (Alexandria, Egypt). *Alex. Sci. Exh*., **12** (4): 723-42.
10. **Radwan MA** and El-Doksch HA. 1991. Effect of some nematicides and fungicides alone and in combination on respiration and nitrification processes in soil. *J. Agric. Sci., Mansoura Univ*., **16** (5): 1185-92.
11. **Radwan MA** and Ahmed AH. 1992. Evaluation of culture filtrates of certain soil born fungi for nematicidal activity against *Meloidogyne incognita*. *Alex. J. Agric. Res*., **37** (1): 545-58.
12. El-Shoura MY, **Radwan MA**, Marei ASM and Abu-Elamayem MM. 1992. Effect of aldicarb and carbofuran, insect growth inhibitors and their mixture on Root-Knot nematode on tomato plant. *J. Pest Control & Environ. Sci.*, **4** (1): 85-96.
13. Salama AK, **Radwan** **MA** and El-Shahawi FI. 1992. Pharmacokinetic profile and anticholinesterase properties of phenamiphos in male rats. *J. Environ. Sci. & Health* B **27** (3): 307-23.
14. **Radwan MA,** El-Wakil HB and Osman KA. 1992. Toxicity and biochemical impact of certain oxime carbamate pesticides against terrestrial snail, *Theba pisana* (Muller). *J. Environ. Sci. & Health* B **27** (6): 759-773.
15. El-Wakil HB, **Radwan** **MA** and Osman KA. 1992. Interaction of some oxime carbamate pesticides with terrestrial *Helix aspersa* snails enzyme systems.  *Alex. Sci. Exch*., **13** (3): 497-516.
16. Salama AK, **Radwan** **MA** and Bakry NM. 1993. Pharmacokinetics and excretion of ametryn in rat following a single oral administration *J. Pest Control & Envrion. Sci.*, **5** (1): 61-76.
17. **Radwan MA**, Osman KA and Salama AK. 1993. Biochemical response of the brown garden snail *Helix aspersa* to chlorfuazuron and flufenoxuron. *J. Environ. Sci. & Health* B **28** (3): 291-303.
18. Osman KA, Salama AK and **Radwan** **MA**.1993. Neurotoxic esterase in the land snails: *In vitro* comparative and kinetic studies. *J. Environ. Sci. & Health* B **28** (3): 325-34.
19. **Radwan MA**. 1993. A technique for testing the efficacy of molluscicidal baits against land snails. *Com. In Sci. & Dev. Res.*, **34**: 17-26.
20. Aly MI, El-Shoura MY and **Radwan MA**.1994. Effect of three oxime carbamate insecticides on nitrification process in some Egyptian soil types. *J. Agric. Sci., Mansoura Univ.*, **19** (1): 349-55.
21. Salama AK and **Radwan** **MA**.1995. Uptake, excretion and metabolism of phorate in the land snails. *J. Environ. Sci. & Health* B**30** (2): 233-42.
22. **Radwan MA.** 1995. Evaluation of different types of pesticides against  *Meloidogyne incognita* in relation to their effect on growth and nutrient contents of tomato plants. *Alex. J. Agric. Res.*, **40** (1): 215-26.
23. **Radwan MA,** Youssef MM, Abd El-All A, El-Henawy GL and Marei ASM. 1995. Residue levels of pirimiphos- methyl and chlorpyrifos- methyl on tomato and faba bean plants in relation to their impact on some internal quality parameters. *Alex. Sci. Exch.*,.**16** (3) : 389-404.
24. Youssef MM, Abd El-All A, **Radwan MA**, El-Henawy GL and Marei ASM. 1995. Removal on pirimiphos- methyl and chlorpyrifos- methyl residues from treated tomatoes and broad beans by commercial and home preparative procedures. *Alex. Sci. Exch*.,.**16** (4) : 461-469.
25. **Radwan MA,** Abd El-All A, Youssef MM, El-Henawy GL and Marei ASM. 1995. Effect of chlorpyrifos- methyl and pirimiphos- methyl on respiration and P-mineralization in two soil types. *Alex. Sci. Exch*., **16** (4): 471-481.
26. Soltan HR, **Radwan** **MA** and El-Maghraby HE. 1996. Environmental behaviour of thiobencarb alginate controlled release formulation in comparison with two commercial formulations on paddy rice field. *Alex. J. Agric. Res*., **41** (1): 219-230.
27. Kassem ShMI, **Radwan MA,** Abu-Elamayem MM and Ibrahim Hala S. 1997. Controlled release insecticides/nematicides formulations. *Alex. J. Agric. Res*., **42** (3): 217-226.
28. **Radwan MA,** Kassem ShMI, Abu El-Amayem MM and Ibrahim Hala S. 1998. Efficacy of certain controlled release pesticides formulations against root knot nematodes on tomato plants. *J. Pest Cont. & Environ. Sci*., **6** (1): 77-88.
29. **Radwan MA.** 1998. Comparative toxicity and biochemical studies of three organometallic pesticides and their metal salts against the gastropod slug *Limax flavus* (Muller). *J. Pest Cont. & Environ. Sci*., **6** (1): 17-34.
30. **Radwan MA.** 1999. An integrated control trial of *Meloidogyne incognita* using *Bacillus thuringiensis* associated with nematicides. *J. Pest Cont. & Environ. Sci*., **7** (1): 103-114.
31. **Radwan MA.** 1999. Soil biochemical changes induced by three applied insecticides/ nematicides. *J. Pest Cont. & Environ Sci*., **7** (1): 123-135.
32. **Radwan MA** and Salama AK. 1999. Thiodicarb biotransformation to methomyl, toxicities and acetylcholinesterase inhibition in the land snail, *Helix aspersa* (Muller). *J. Pest Cont. & Environ Sci*.,**7** (2): 59-70.
33. Aly MI, **Radwan** **MA,** Salem HA and El-Aswed AF. 1999. Effect of certain pesticides on macronutrients (sodium, potassium, calcium and magnesium) bioconcentration ratio (BCR). *The 2nd, Int. Conf. of Pest Control, Mansoura, Egypt*, Sept., 261- 274.
34. Aly MI, Salem HA, **Radwan MA** and El-Aswed AF. 1999. The effect of certain pesticides on some bioprocesses occurred in plant and soil. *The 2nd, Int. Conf. of Pest Control, Mansoura, Egypt*, Sept., 681-694.
35. El-Zemity SR and **Radwan MA.** 1999. Synthesis and molluscicidal properties of some (1*H*-1,2,4-Triazol-1-yl methyl ) anilines, *N*-alkylanilines and *N,N*-dialkylanilines. *J. Pest Cont. & Environ. Sci.*, **7** (3): 89-102.
36. El-Zemity SR and **Radwan MA.** 1999. Synthesis and structure-activity relationships for anticipated molluscicidal activity of some 2-amino-5-substituted pyridine derivatives. *Pestic. Sci*., **55** (12): 1203-1209.
37. **Radwan MA** and EL-Zemity SR. 2001. Synthesis and molluscicidal structure-activity relationships of some novel 1,2,4-triazol *N*-methyl carbamates. *Pest Manag. Sci*., **57**, 707-712.
38. El-Zemity SR and **Radwan MA.** 2001. Molluscicidal and antifeedant activity of some essential oils and their major chemical constituents against *Theba pisana* snails. *Arab Univ. J. Agric. Sci., Ain**Shams Univ.*, Cairo, **9** (1): 483-493.
39. El-Zemity SR, Mohamed SA, **Radwan MA** and Sherby SM. 2001. Molluscicidal activity of some essential oils and their major chemical constituents against *Biomphalaria alexandrina* snails. *Alex. J. Pharm. Sci*., **15** (1): 67-70.
40. El-Zemity SR, Mohamed SA, **Radwan MA** and Sherby SM. 2001. Molluscicidal efficacy and repellency of some naturally occurring monoterpenoids against the land snail, *Helix aspersa*, Muller (Mollusca: Pulmonata). *Annals Agric.* *Sci*., *Ain Shams Univ*., Cairo, **46** (1): 339-346.
41. **Radwan MA.** 2001. Molluscicidal potency of some naturally occurring compounds and their blends against Schistosomiasis snail-vector, *Biomphalaria alexandrina*. *J. Pest Cont. & Environ. Sci*., **9** (3): 1-12.
42. **Radwan MA**, Shiboob MH, Abdel-Aal A and Abu-Elamayem MM. 2001. Residues of pirimiphos-methyl and fenitrothion in grapes, their effect on some quality properties and their dissipation during the removal and processing methods. *J. Pest Cont. & Environ. Sci.,* **9** (3): 89-107.
43. **Radwan MA**, El-Shoura MY, Marei ASM and Abu-Elamayem MM. 2003. Utalization of the root-knot nematode, *Meloidogyne incognita* for monitoring nematicide movement in soil*. J. Pest Cont. &* *Environ. Sci*., **11** (2): 27-38.
44. Abu-Elamayem MM**, Radwan MA**, Kassem ShMI and El-Maadawy EK. 2004. Root dip technique for evaluating some pesticides against *Meloidogyne incognita* infecting tomato. *Alex. J. Agric. Res.,* **49** (1): 91-97.
45. **Radwan MA**, Abu-Elamayem MM, Kassem ShMI and El-Maadawy EK. 2004. Management of *Meloidogyne incognita* root-knot nematode by integration of *Bacillus thuringiensis* with either organic amendments or carbofuran. *Pak. J. Nematol*., **22** (2): 135-142.
46. **Radwan MA**, Shiboob MH, Abu-Elamayem MM and Abdel-Aal A. 2004. Residues of pirimiphos-methyl and profenofos on green pepper and eggplant fruits and their effect on some quality properties. *Emir. J. Agric. Sci*., **16** (1): 32-42.
47. **Radwan MA**, El-Zemity SR and El-Maadawy EK. 2004. Effect of some pyridin derivatives on *Meloidogyne incognita* infecting tomato plants. *Int. J. Biol. & Biotech*., **1** (4): 619-623.
48. **Radwan MA**, Shiboob MH, Abu-Elamayem MM and Abdel-Aal A. 2004. Pirimiphos-methyl residues on/in some field-grown vegetables and its removal using various washing solutions and kitchen processing. *Int. J. Agric. & Biol.,* **6** (6): 1026-1029.
49. **Radwan MA**, Abu-Elamayem MM, Shiboob MH and Abdel-Aal A. 2005. Residual behaviour of profenofos on some field-grown vegetables and its removal using various washing solutions and household processing. *Food & Chem. Toxicol.,* **43** (4): 553-557.
50. Salama AK and **Radwan MA.** 2005. Heavy metals (Cd, Pb) and trace elements (Cu, Zn) contents in some foodstuffs from the Egyptian market. *Emir. J. Agric. Sci.,* **17** (1): 34-42.
51. **Radwan MA** and Salama AK. 2006. Market basket survey for some heavy metals in Egyptian fruits and vegetables. *Food & Chem. Toxicol*., **44** (8): 1273-1278.
52. **Radwan MA**, Ibrahim HS, Kassem ShMI and Abu-Elamayem MM. 2006. Preliminary evaluation of the management of *Meloidogyne incognita* using biodegradable and synthetic matrices for carbofuran formulations*. Indian J. Nematol.,* **36** (1): 54-59.
53. **Radwan MA**, Abu-Elamayem MM, Kassem ShMI and El-Maadawy EK. 2006. Soil amendment with dried weed leaves as non-chemical approach for the management of *Meloidogyne incognita* infecting tomato. *Commun. Agric. Appl. Biol. Sci.*, **71** (4): 25-32.
54. **Radwan MA.** 2007. Efficacy of *Bacillus thuringiensis* integrated with other non-chemical materials to control *Meloidogyne incognita* in tomato. *Nematol. Medit.,* **35** (1): 67-71.
55. **Radwan MA**, El-Maadawy EK and Abu-Elamayem MM 2007. Comparison of the nematicidal potentials of dried leaves of five plant species against *Meloidogyne incognita* infecting tomato. *Nematol. Medit.,* **35** (1): 79-82.

56 **Radwan MA**, Kassem ShMI, Abu-Elamayem MM and El-Maadawy EK. 2007. Use of some emulsified plant seed oils as safe alternative for the management of *Meloidogyne incognita* infecting tomato. *Archives of Phytopathology and Plant Protection,* **40** (5): 345-352.

1. Hamed SS, Abdelmeguied NE, Essawy AE, **Radwan MA** and Ahmed AE. 2007. Histological and ultrastructural changes induced by two carbamate molluscicides on the digestive gland of *Eobania vermiculata. J. Biological Sciences,* **7** (6): 1017-1037.
2. **Radwan MA.** 2007. Bioactivity of some commercial products of *Bacillus thuringiensis* on *Meloidogyne incognita* infecting tomato. *Indian J. Nematol.,* **37** (1): 30-33.

59 **Radwan MA,** Ibrahim HS, Kassem ShI and Abu-Elamayem MM. 2007. Integrated management of root-knot nematode, *Meloidogyne incognita* infecting tomato. *Pakistan J. Nematol.,* **25** (2): 295-303.

60  **Radwan MA** and El-Zemity SR. 2007. Naturally occurring compounds for control of harmful snails. *Pakistan J. Zoology*, **39** (5): 339-344.

1. **Radwan MA.** 2007. Comparative effects of culture filtrate of some soil-borne fungi on mortality and infectivity of juveniles of *Meloidogyne incognita*. *Indian J. Nematol.,* **37** (2): 109-114.

62 **Radwan MA,** Essawy AE, Abdelmeguied NE, Hamed SS, and Ahmed AE. 2008. Biochemical and histochemical studies on the digestive gland of *Eobania vermiculata* snails treated with carbamate pesticides*. Pesticide Biochemistry & Phsiology,* **90** (3): 154-167.

63 El-Zemity SR, **Radwan MA**, Mohamed SA and Sherby SM. 2008. Antibacterial screening of some essential oils, monoterpenoids and novel N-methyl carbamate based on monoterpenoids against *Agrobacterium tumefaciens* and *Erwinia carotovora. Archives of Phytopathology and Plant Protection.* **41**(6): 451-461.

64 **Radwan MA**, El-Zemity SR, Mohamed SA and Sherby SM. 2008. Larvicidal activity of some essential oils, their major components and novel N-methyl carbamate based monoterpenoids against *Culex pipiens* L. (Diptera: Culicidae). *Int. J. Tropical Insect Sci.*,**28** (2): 61-68

65 **Radwan MA**, El-Zemity SR, Mohamed SA and Sherby SM. 2008. Potential of some monoterpenoids and their new N-methyl carbamate derivatives against Schistosomiasis snail vector, *Biomphalaria alexandrina.* *Ecotoxicology and Environmental Safety* **71** (3): 889-894.

66 **Radwan MA**, El-Maadawy EK, Kassem ShMI and Abu-Elamayem MM. 2009. Oil cakes soil amendment effects on *Meloidogyne incognita*, root-knot nematode infecting tomato. *Archives of Phytopathology and Plant Protection* **42** (1): 58-64.

67 Essawy AE,Abdelmeguied NE**, Radwan MA,** Hamed SS, and Ahmed AE. 2009. Neuropathological effect of carbamate molluscicides on the land snail, *Eobania vermiculata. Cell Biol. Toxicol.* **25,** 275-290.

1. El-Gendy KS, **Radwan MA** and Gad AF. 2009. *In vivo* evaluation of oxidative stress biomarkers in the land snail, *Theba pisana* exposed to copper-based pesticides. *Chemospher*e **77** (3): 339-344.
2. **Radwan MA**, El-Gendy KS and Gad AF. 2010. Oxidative stress biomarkers in the digestive gland of *Theba pisana* exposed to heavy metals. *Archives of Environmental Contamination and Toxicology,* **58** (3): 828-835.
3. **Radwan MA**, El-Gendy KS and Gad AF. 2010. Biomarkers of oxidative stress in the land snail, *Theba pisana* for assessing ecotoxicological effects of urban metal pollution. *Chemospher*e **79**: 40–46**.**

 71 El-Gendy KS, **Radwan MA**, and Gad AF. 2011. Feeding and growth responses of the snail *Theba pisana* to dietary heavy metal exposure**.** *Archives of Environmental Contamination and Toxicology,* **60**: 272-280.

 72 **Radwan MA**, Abu-ELamayem MM, Farrag SAA and Ahmed NS. 2011. Integrated management of *Meloidogyne incognita* infecting tomato using bioagents mixed with either oxamyl or organic amendments. *Nematol. Medit.*, **39**: 151-156.

73 **Radwan MA**, Farrag SAA, Abu-ELamayem MM and Ahmed NS. 2012. Efficacy of dried seed powder of some plant species as soil amendment against *Meloidogyne incognita* on tomato**.** *Archives of Phytopathology and Plant Protection* **45** (10): 1246-1251.

74 **Radwan MA**, Farrag SAA, Abu-ELamayem MM and Ahmed NS. 2012. Biological control of the root-knot nematode, *Meloidogyne incognita* on tomato using bioproducts of microbial origin. *Applied Soil Ecology* **56**, 58-62.

 75 **Radwan MA**, Farrag SAA, Abu-ELamayem MM and Ahmed NS. 2012. Efficacy of some granular nematicides against root-knot nematode, *Meloidogyne incognita* associated with tomato. *Pakistan Journal of Nematology* 30 (1): 41-47.

####  76 Radwan MA, Farrag SAA, Abu-ELamayem MM and Ahmed NS. 2012. Extraction, characterization and nematicidal activity of chitin and chitosan derived from shrimp shell wastes. Biology and Fertility of Soils 48, 463-468.

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####  77 Radwan M.A. and Mohamed M. S. 2013. Imidacloprid induced alterations in enzyme activities and energy reserves of the land snail, Helix aspersa. Ecotoxicology and Environmental Safety 95, 91-97.

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 78 Mohamed, N.A. and **Radwan, M.A.** 2013. A laboratory study for evaluating the effect of some pesticides on the fungal bioagent, *Trichoderma harzianum*. Six Libyan National Conference of Biotechnology, Musrata, Libya 21-23 April, 2013.

 79 Mohamed N. and **Radwan MA** 2014. *In vitro* evaluation of the fungal bioagent, *Trichoderma harzianum* compatibility with some soil-applied pesticides. *Archives of Phytopathology and Plant Protection* (In press).

 80 **Radwan MA** 2015. Induction of resistance in tomato plants against root-knot nematode *Meloidogyne incognita* with chitosan. *African Journal of Biotechnology* (Submitted for publication).

 81**Radwan MA**, Farrag SAA, Abu-ELamayem MM and Ahmed NS. 2015. Effect of some resistance inducing chemicals against *Meloidogyne incognita* infecting tomato. *Alex. J. Agric. Res.,* (Submitted for publication).