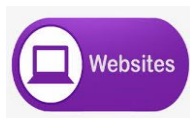


Mohamed Salah Khalil (B.Sc., M.Sc., Ph.D.)



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POSITIONS

- + (2019 till now): **Researcher.**
- + (2014 - 2019): **Assistant Researcher.**
- + (2013 - 2014): **Agricultural Specialist.**
- + (2006 - 2013): **Agronomist.**

EDUCATION

- + PhD. in Pesticides from Plant Protection Department, Faculty of Agriculture Saba-Basha, Alexandria University in **2018** under title: "**Evaluation of Some Management Practices against Root Knot Nematode in Tomato**".
- + Master Science in pesticides from Plant Protection Department, Faculty of Agriculture Saba- Basha, Alexandria University in **2009** under title: "**Influence of Nematicides and Certain Natural Products on the Infestation of Nematodes Attacking Tomato Plants (*Lycopersicon esculentum*, Mill)**".
- + Bachelor of Agricultural Science from Dry land Farming Department, Faculty of Agriculture Saba-Basha, Alexandria University in 2004 with general grade (**very good with rank of honor**).

RESEARCH EXPERIENCE

Agricultural Research Center, Egypt.

- ✚ Nematicidal, insecticidal and acaricidal activity of the following: -
 - ✓ Chemical pesticides.
 - ✓ Organic soil amendments (especially plant wastes / composts/ vermicompost).
 - ✓ Plant extracts.
 - ✓ Different micro-organisms.
 - ✓ Essential oils.
 - ✓ Bio-pesticides.
 - ✓ Nano materials
 - ✓ Integrated Nematodes Management programs.
 - ✓ Entomopathogenic nematodes.
- ✚ Extract certain plants with different equipments.
- ✚ Plant Parasitic Nematodes (P.P.N) isolation and classification (some).
- ✚ Bioassay of chemical, bio-agents and natural compounds against plant parasitic nematodes.
- ✚ Pharmaceutical activity of some algae and plant extracts.
- ✚ Evaluation of certain compounds and materials in fields on different pests.
- ✚ Management / control of some insect pests under field and laboratory conditions.
- ✚ Study of environmental toxicity of some insecticides, nematicides and acaricides.
- ✚ Participated in cotton leaf worm rearing (Plant Protection institute).

Alexandria University, Egypt.

- ✚ Environmental toxicology (Pesticides effects on some biological water modeling).
- ✚ Management the experimental field trials for the first legal introduction of genetically modified crops in Egypt (Bt. Corn).
- ✚ Study the environmental stress by pesticides *in vitro* and *in vivo*.
- ✚ Chemical ecology of certain pesticides against corn borers.
- ✚ Evaluated the Pre-harvest interval (PHI) for organophosphates pesticide residues.
- ✚ Toxicological study of certain new pesticides in agricultural environments.
- ✚ Participated in corn borers and cotton leaf worm rearing under laboratory conditions.
- ✚ Bioassay and Toxicity studies of chemical and microbial pesticides against some insects.

International Journals

- ✚ Reviewer in certain scientific Journals (**more than 11 international journals included impacted and indexed journals**).

INTERESTING FIELDS

- ✚ Plant parasitic nematodes management.
- ✚ Insect pests' control.
- ✚ Control of Public health pests.
- ✚ Pesticides residue.
- ✚ Pesticide's toxicology.
- ✚ Mass rearing of some insects.
- ✚ Management of stored product insects.
- ✚ Plant disease management.
- ✚ Integrated pest management (IPM).
- ✚ Environmental pollution and pollutants "especially pesticides".
- ✚ Environmental protection.
- ✚ Plant extracts against agricultural pests.
- ✚ Essential oils and monoterpenes against pests.

SOME SELECTED PUBLICATIONS

RESEARCH ARTICLES

- **Khalil, M.S.**, Abd El-Aziz, M.H. & Selim, R.E.S. (2022). Physiological and morphological response of tomato plants to nano-chitosan used against bio-stress induced by root-knot nematode (*Meloidogyne incognita*) and Tobacco mosaic tobamovirus (TMV). Eur J Plant Pathol. <https://doi.org/10.1007/s10658-022-02516-8>
- Massoud, M. A., **Khalil, M. S.**, Shawer, R., El-bialy, M., Saad, A. (2021). Biological performance of certain bio-agents, fluopyram and fosthiazate against *Meloidogyne* spp. on guava trees (*Psidium guajava* L.). Alexandria Science Exchange Journal. 42(4): 789-797.
- Khamis, W. M. and **Khalil, M. S.** (2019). Comparative toxicity study of different acaricides in laboratory preluding for field efficacy assessment against *Tetranychus urticae* (Acari: Tetranychidae). Egyptian Journal of Plant Protection Research Institute. 2(4): 576-585.

- Abdelgalil, G.M., Abou-Elnasr, H.S., **Khalil, M.S.**, Abouhamer, M.S., Osman, A.M. and Abdallah, E.A.M. (2018). Molluscicidal toxicity of abamectin against *Eobania vermiculata* and *Theba pisana* in vitro and the estimation of GABA-Transaminase activity by HPLC. Journal of Biopesticides. 11(2):161-168.
- **Khalil, M.S.**; Allam, A.F.G. and Barakat, A.S.T. (2012). Nematicidal Activity of some biopesticide agents and microorganisms against root-knot nematode on tomato plants under greenhouse conditions. J. Plant Protec. Res, 52 (1): 47-52.
- **Khalil, M.S.** and Badawy, M.E.I. (2012). Nematicidal activity of a biopolymer chitosan at different molecular weights against root-knot nematode, *Meloidogyne incognita*. Plant Protection Science, 48(4):170-178.

REVIEW ARTICLES

- **Khalil, M.S.** and Selim R.E. (2021). Fluorinated nematicides: Novel classes in the way. Journal of Plant Science and Phytopathology. 5: 14-16
- Abd El-Aziz, M.H. and **Khalil, M.S.** (2020). Antiviral and Antinematodal potentials of chitosan: Review. Journal of Plant Science and Phytopathology. 4: 55-59.
- Yahya, A., **Khalil, M.S.** and Ghorab M.A. (2018). Environmental Pollution by Heavy Metals in the Aquatic Ecosystems of Egypt. Open Access Journal of Toxicology, 3(1): 555603. DOI: 10.19080.
- Ghorab, M.A. and **Khalil, M.S.** (2015). Toxicological Effects of organophosphates Pesticides. International Journal of Environmental Monitoring and Analysis. 3 (4): 218-220.
- **Khalil, M.S.** (2013). Abamectin and Azadirachtin as Eco-friendly and Promising Biorational Tools in Integrated Nematodes Management Programs. Journal of Plant Pathology and Microbiology, 4 (4): doi:10.4172/2157-7471.1000174.

BOOKS OR BOOK CHAPTERS

- **Khalil, M.S.** and W. M. Khamis (Available 2022). Novel Forecasting, Bio-Indicator, and Bio-Remediation for Pesticides Contamination in Soil. In: Pesticide Contamination in Freshwater and Soil Environs: Impacts, Threats, and Sustainable

Remediation, Mahmood M.A., Hakeem K.R., Bhat, R.A. and Dar G. H. (eds.), **Apple Academic Press publishing**, 402 pp.

- **Khalil, M.S. (2016).** Utilization of biomaterials as soil amendments and crop protection agents in integrated nematodes management. *In: Plant, Soil and Microbes (Vol. 1): Interactions and Implications in Crop Science*, Hakeem K.R., Akhtar M.S. and Abdullah S.N.A. (eds.), **Springer international publishing, Chem, Switzerland, P203-224.**

CONFERENCE PAPERS

- ✚ Ghorab, M.A., **M.S. Khalil**, J.L. Newsted, H.S. Aboelnasr, A. Abdelmoneim and M.J. Zwiernik **(2020).** Acute and Sub-chronic toxicity for three commonly used insecticides; neonicotinoids and phenylpyrazole fipronil, in Marine crustacean, the mysid, *Americamysis bahia*. [Poster presentation \(oral on line\) during the SETAC North America 41th Annual Meeting of the Society of Environmental Toxicology, November 15-19, TEXAS, USA.](#)
- Omar, H., Samir, H., **Khalil, M.S.**, Ghorab, M.A. and Zwiernik, M.J. **(2016).** Acute water column effects concentrations (LC₅₀, LC₉₀) for three commonly used insecticides, two neonicotinoids (acetamiprid and Imidacloprid), and a recently registered Phenylpyrazole (Fipronil), exposed to common commercially cultured shrimp (*Marsupenaeus japonicus*). [poster presentation during the 55th Annual Meeting of the Society of Toxicology, March 13–17, 2016 at the Ernest N. Morial Convention Center in New Orleans, Louisiana, USA.](#)

EDITORIALS

- **Khalil, M.S. (2014).** Fate of Pesticides in the Agricultural Environment. *Biology and Medicine*, 6(4): e117. doi:10.4172/0974-8369.1000 e117.
- **Khalil, M.S. (2013).** Alternative Approaches to Manage Plant Parasitic Nematodes. *Journal of Plant Pathology and Microbiology*, 4 (1): e105. doi:10.4172/2157-471.1000e105.

PROJECTS

- ✚ **2015-2022:** Project Team Member, project # 725, "Evaluation the performance of nematicides to control nematodes' diseases of fruit trees (citrus & banana)" in El-Nobarya zone, Behaira government, **Egypt**.
- ✚ **2014-2022:** Project Team Member, project # 581, "Management of Cotton leaf and Boll worms in Alexandria government, **Egypt**".
- ✚ **2009-2010:** Project Team Member, project #600, "Production Strawberry Clean in the New Territories Lands in Alexandria and El-Behaira government, **Egypt**.
- ✚ **2008-2010:** Project Team Member, project #579, "Evaluation of Insecticides efficacy in Vegetables against Pests of Family Legume in Agricultural Research Center, The Regional Station in Sabaheya, Alexandria, **Egypt**.
- ✚ **2008-2009:** Project Team Member, project #769, "Evaluation of New Insecticides efficacy in Vegetables against field crops insects and Pests in Agricultural Research Center, The Regional Station in Sabaheya, Alexandria, **Egypt**.

TRAININGS

- ✚ **2021:** Management of plant parasitic nematodes.
- ✚ **2021:** Assay of nematicides.
- ✚ **2015:** New strategies to handling pesticides in Egypt and its influence on environmental systematic.
- ✚ **2015:** Training on the fundamentals of Real Time PCR. National Institute of Oceanography & Fisheries (NIOF), Alexandria, **Egypt**.
- ✚ **2014:** "Integrated management of vegetables pests", Plant protection institute, Alexandria, **Egypt**.
- ✚ **2014:** "The safe and effective use of agricultural pesticide", by Egyptian Agricultural Pesticides Committee & Syngenta Agro Co., kaha, Kaliobeya governorate, **Egypt**.
- ✚ **2014:** Theoretical and practical training program entitled "Assessing chemical contaminant and analysis of biota on the environment ". National Institute of Oceanography & Fisheries (NIOF), as organizer and lecturer, Alexandria, **Egypt**.

- + **2014:** "Integrated pest management for the most important and expected diseases in different field crops and horticultural at Alexandria governorate", by Plant protection institute, Alexandria, **Egypt**.
- + **2013:** "Modern trends to evaluate pesticides toxicity and residues", by Central Agricultural Pesticides Laboratory, Alexandria, **Egypt**.
- + **2012:** "New Technologies in the field of nematodes diseases", by Faculty of Agriculture, El-Fayoum University, El-Fayoum, **Egypt**.
- + **2007:** "Basic training for workers in pesticides fields", Faculty of Agriculture, Alexandria University, Alexandria, **Egypt**.

LECTURES AND SEMINARS

- + **2021:** Nano-materials: Nematicidal and insecticidal activity.
- + **2021:** Nematicides: application and assay (7/2/2021).
- + **2020:** Phytonematodes: damages and control (lecture).
- + **2019:** Nematicides: present and future (New nematicides in Egypt).
- + **2019:** The importance of plant wastes in pest control (lecture).
- + **2018:** Pharmacology activity of macrocyclic lactones.
- + **2018:** Macrolides: The new generation of nematicides.
- + **2018:** Neem oil as a tool in phyto-nematodes management.
- + **2017:** Abamectin as a new nematicide (lecture).
- + **2016:** Pharmaceutical impacts of some plant extracts.
- + **2016:** Plant parasitic nematodes (the hidden enemy)
- + **2015:** Fate of pesticides in agricultural environments.
- + **2014:** Fate of pesticides in environment (lecture).
- + **2013:** The Role of Organic Matters in protection from plant Pathogens (lecture).

- + **2012:** The relationship between composition and potency (lecture).
- + **2012:** Feeding mechanisms of ectoparasitic nematodes.
- + **2010:** Nematicides mode of action (lecture).
- + **2009:** Pesticide's classification.
- + **2008:** Controlling of Phyto-parasitic nematodes in vegetables.
- + **2007:** Biological control of plant parasitic nematodes.

WORKSHOPS

- + **2021:** Choosing between pesticides and modern methods for managing mites (16/10/2021)
- + **2021:** 1st scientific day of Mansoura toxicology unit, faculty of medicine, Mansoura University (20/2/2021).
- + **2020:** World Tsunami Awareness Day – Alexandria University (5/11/2020).
- + **2019:** World Tsunami Awareness Day – Alexandria University (5/11/2019).
- + **2019:** climate change: the effect on pesticides usage and pest management – National Research Center (23/9/2019).
- + **2019:** The modern trends in controlling plant diseases (10 & 11/2/2019).
- + **2018:** Adverse effects of pesticides on professional workers (4/12/2018).
- + **2018:** Plant extracts as pest control agents (28&29/10/2018).
- + **2018:** Fish Physiology and Biochemistry Workshop (22 & 23 October) - National Institute of Oceanography and Fisheries –Alexandria.
- + **2017:** Pesticides: the coming dangerous.
- + **2016:** Food contamination (9/2016)
- + **2016:** Management of documents information, Alexandria, Egypt (5/6/2016).
- + **2015:** Cultivation, production and manufacturing of oyster mushrooms and its nutritional value. Plant Pathology Institute, Plant Protection Station, Alexandria, Egypt.

- + **2015:** Food Safety & Nutrition interrelations. High Institution for Public Health, Alexandria, Egypt.
- + **2015:** Nanotechnology and its biological applications. City of Scientific Research & Technological Applications, Alexandria, Egypt.
- + **2015:** Chromatography and new techniques in food science. Faculty of Agriculture Saba Basha, Alexandria University, Alexandria, Egypt.
- + **2015:** Detection of mycotoxins in food and feed. City of Scientific Research & Technological Applications, Alexandria, Egypt.
- + **2014:** Data analysis and modeling using CoStat statistical software. City of Scientific Research & Technological Applications, Alexandria, Egypt.

CONFERENCES

- + **2020:** SETAC North America 41th Annual Meeting of the Society of Environmental Toxicology, November 15-19, TEXAS, USA.
- + **2019:** SETAC North America 40th Annual Meeting of the Society of Environmental Toxicology, November 3–7, 2019 at Toronto, Ontario, Canada.
- + **2019:** The first conference of Agricultural Science for post graduate students in Faculty of Agriculture (Saba Basha) – Alexandria University – Egypt (2 May, 2019).
- + **2017:** The First International Conference and Exhibition on the Sustainable Development of Aquaculture held in Cairo, Egypt, during the period of 20 to 22 November.
- **2016:** 55th Annual Meeting of the Society of Toxicology, March 13–17, 2016 at the Ernest N. Morial Convention Center in New Orleans, Louisiana, USA.
- + **2014:** Biovasion (New life science: the next decade). Bibliotheca Alexandrina, Alexandria, Egypt.
- + **2012:** Biovasion (New life science: linking science to society). Bibliotheca Alexandrina, Alexandria, Egypt.

RESEARCH SUPERVISION

- ✚ Supervision on PhD student and the title of thesis is "Evaluation of certain eco-friendly approaches against root-knot nematodes in Guava trees" in faculty of agriculture (Saba-Basha), Alexandria University, Alexandria, Egypt.
- ✚ Supervision on M.Sc. student and the title of thesis is "Sustainable management of root-knot nematodes in tomato crop under field conditions" in faculty of agriculture (Saba-Basha), Alexandria University, Alexandria, Egypt.
- ✚ Supervision on M.Sc. student and the title of thesis is "nematicidal, insecticidal and pharmacological activity of certain algae and medicinal plant extracts" in faculty of agriculture (Saba-Basha), Alexandria University, Alexandria, Egypt.
- ✚ Supervision on M.Sc. student and the title of thesis is "synthesis, design and activity of certain natural products" in faculty of agriculture, Alexandria University, Alexandria, Egypt.

TEACHING COURSES

- ✚ Plant parasitic nematode diseases (1405646)

SOCIAL EXPERIANCES

- ✚ Supervisor in pest control unit under authority of plant protection department, faculty of agriculture (Saba-Basha), Alexandria University, Alexandria, Egypt (**experience of 5 years**).
- ✚ Pest control Supervisor in certain public health companies in Alexandria, Egypt (**experience of 15 years**).
- ✚ Technical consultant in control of public health pests at certain companies, Alexandria, Egypt.
- ✚ Participated in campaigns to raise awareness of the pesticides risks under authority of civil associations in Alexandria Governorate, Egypt.
- ✚ Participated in campaigns under authority of the Egyptian Ministry of Health and Population to control rodents in certain regions of Alexandria Governorate, Egypt.

MEMBERSHIPS

- + **2020-2022:** Editorial Board Member in plant protection journal (Pakistan society of plant protection), Pakistan.
- + **2020-2022:** Editorial Board Member in American Journal of Agricultural and Biological Sciences, USA.
- + **2014-2022:** Member in Egyptian society of pesticides in Central Agricultural Pesticides Laboratory (CAPL), Cairo, Egypt.
- + **2014-2019:** Editorial Board Member in World Research Journal of Entomology and Nematology, India.
- + **2013-2021:** Editorial Board Member in Journal of Biology and Medicine, USA.
- + **2012 – 2021:** Editorial Board Member in Journal of Agricultural Science, Canada.

HONORS AND AWARDS

- + Awarded a certificate from SOT (Society of Toxicology, USA) to serve as external reviewer for the best publication award (**25/3/2022**).
- + Awarded a certificate from Delta Water Company to declamation a presentation.
- + Awarded a certificate from journal of agricultural science to serve as a reviewer.
- + Awarded a certificate from journal of annual research and review in biology to serve as a reviewer.
- + Awarded a certificate from journal of agricultural science to serve as editorial board member.
- + Awarded a certificate from agriculture, forestry and fisheries to serve as editorial board member.
- + Awarded a certificate from American journal of agriculture and forestry to serve as editorial board member.
- + Awarded a certificate from journal of plant pathology and microbiology to serve as editorial board member.
- + Awarded a certificate from journal of Biology and medicine to serve as editorial board member.

- ✚ Awarded a certificate from World research journal of entomology and nematology to serve as editorial board member.
- ✚ Awarded a certificate for participation in the training entitled "safe usage of pesticides" under authority of Egyptian pesticides committee and Syngenta Company.
- ✚ Awarded a thankfulness certificate from Global pest Control Company (public health services) to work as technical consultant from 2010 till 2013.
- ✚ Awarded a certificate for participation in the workshop "New Technologies in the field of nematodes diseases" from El-Fayoum University.
- ✚ Awarded a certificate from Egyptian pesticides committee in Basic training for pesticide operators.
- ✚ Awarded certain certificates to participate in trainings and workshops from different places.

Best Regards

Dr. Mohamed S. Khalil