

Farag Mahmoud Malhat
Environment / Regulatory Chemist
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<http://scholar.google.com/citations?user=dQqUrfEAAAAJ&hl=en>

Current Position: Senior Research Officer, Central Pesticides Laboratory, Agriculture Research Centre, Dokki, Cairo

Duties and Responsibilities: The Central Pesticide Laboratory is the main body representing Egypt in all regulatory stringent protocols performed as a prerequisite for pesticides registration. Within this framework, my responsibilities and duties would include the following:-

1. Determination of pesticides safe use gauges, with special reference to dissipation and preharvest intervals profile;
2. Health hazards and risk assessment studies;
3. Impurities status, including quantitative and qualitative profile ;
4. Pesticides behaviour in environmental matrices;
5. Performing monitoring programs of priority pollutants, with special reference to polycyclic aromatic hydrocarbons, polychlorinated biphenyl, heavy metals, and others;
6. Arbitration studies whenever disputes between industry and regulatory bodies arise regarding residue profile, impurity content and likewise issues.

Academic qualification

- PhD. in Organic Chemistry, July 2010, Chemistry Department, Faculty of Science, Benha University, Egypt.
- MSc. in Organic Chemistry, March 2007, Chemistry Department, Faculty of Science, Menofiya University, Egypt
- B.Sc., Honour, May 2001 from Faculty of Science, Menofiya University, Egypt.

Vocational and Professional Experience: Intensive hands on experience in advanced chromatography techniques including;

1. High performance liquid chromatography, Gas liquid chromatography, Spectrometry analysis, including different modes, detectors and modules, data stations, including maintenance works;
2. General analytical operation and information, including analytical perspective for sample preparation, extraction and clean up methodology, with special emphases on solid phase and solid phase micro extraction;

Training Programmes

1. Training course in "Gas chromatography/ mass spectrometry GC/MS" from MCSRTA in collaboration with HTC, Egypt, June 12 - July 6, 2005.
2. Training in microcomputer software, January 29 to February 2, 2005.
3. Training course in "ISO/IEC 17025 requirements from supreme committee for development of central agricultural pesticide laboratory during 8-11/7/2007.
4. Training course in "Research Methodology Scientific Writing" from MESC international academy during 11/2008.
5. Training course in "the use of radioactive isotopes and the prevention of ionizing radiation" from college of science, Al-Azhar University during May 3-June 2, 2008.
6. Training course in" pesticide analysis: theory and application" during December 23, 2008 ó January 2, 2009.
7. Training course in" Recent advancing in pesticide formulations technology" during January 11-14, 2009.
8. Training in the field of "Insurance and Fire Fighting Facilities and First Aide" during May 24 to June 7, 2009.
9. Training in the field of pesticide residues determination held in April 17-19, 2011.
10. Training in the field of "Pesticide Residues in Plant and Plant Products" financed by the European Commission DG-Trade and held from May 29 to June 2, 2011.
11. Training in the field of "Pesticide Residues in Plant and Plant Products" financed by the European Commission DG-Trade and held from June5 to June 9, 2011.
12. Training course in the field of "Toxicity and Resistance of Pesticides" held during March 4-6, 2012.
13. Training course in the field of "Integrated Pest Management and Responsible use of Pesticides" held in May 28-31, 2012.

English Language Proficiency: TOEFL test from center of public service and social development, Banha University, 2009.

Computer proficiency: Use of personal computer in work with different programs (Word, Excel, Statistic).

Reviewer in International Journal:- Involvement in reviewing papers submitted for publication in the following journals:- Chemosphere, Food chemistry, Journal of environmental science and health, part B, International journal of environmental analytical chemistry, Agriculture research and reviews, Environmental science group, Environmental monitoring assessment, Global advanced research journal, Environmental science and toxicology, environmental chemistry and toxicology & Food analytical method.

Editor in international Journal:- Involved in the editorial board of International Journal of Agriculture Science and Food Technology

Selected Publication List

A. Peer-Reviewed Articles

1. Ayman Saber, **Farag M. Malhat**, Hany Badawy & Dalia Barakat (2016) Dissipation dynamic, residue distribution and processing factor of hexythiazox in strawberry fruits under open field condition. Food Chemistry, 196, 1108-1116. (Impact Factor, 3.39)
2. Piyanuch Jaikaew, Dang Quoc Thuyet, Boulang Julien, **Farag M. Malhat**, Satoru Ishihara & Hirozumi Watanabe (2015). Potential Impacts of seasonal environmental variation on Atrazine and Metolachlor Persistence in Andisol soil. Environmental Monitoring Assessment. 187, 760-770 (Impact Factor, 1.67).
3. **Farag M. Malhat**, Naglaa M. Loutfy & Mohamed Tawfic Ahmed. (2015). Validation of QuEChERS Based Method for Determination of Flusilazole Residues in Grape by high performance liquid chromatography with photodiode array detector. Toxicological & Environmental Chemistry, 97(9), 1137-1144. (Impact factor 0.83).
4. Elmorsy Khaled, Manal S. Kamel, H.N.A. Hassan, Hassan Abdel-Gawad & **Farag M. Malhat** (2015) Rapid detection of methomyl and organophosphorus pesticides with portable potentiometric biosensor. Analytical Chemistry Letters, 5(3), 117-126.
5. **Farag M. Malhat**, Hirozumi Watanabe & Ahmed Youssef (2015). Degradation profile and safety evaluation of methomyl residues in tomato and soil. Hellenic Plant Protection Journal, 8 (2), 55-62.
6. Indra Purnama, **Farag M. Malhat**, Piyanuch Jaikaew, Hirozumi Watanabe, Sri Noegrohati, Bambang Rusdianto & Mohamed Tawfic Ahmed (2015): Degradation profile of azoxystrobin in Andisol soil: laboratory incubation, Toxicological & Environmental Chemistry, 96 (8), 1141-1152, (Impact Factor, 0.83).
7. **Farag M. Malhat**, Mohamed N. Haggag, Naglaa M. Loutfy, Mohamed A. Osman, & Mohamed Tawfic Ahmed (2015). Residues of organochlorine and synthetic pyrethroid pesticides in honey, an indicator of ambient environment, and risk to consumers, a pilot study. Chemosphere, 120 , 457-461.(Impact Factor, 3.34)
8. Ahmed Youssef, **Farag M. Malhat**, Abou El-Fotouh Abdel Hakim & Imre Dekany (2015). Synthesis and Utilization of Poly (methylmethacrylate)

- Nanocomposites Based on Hydrophobic Montmorillonite. *Arabian Journal of Chemistry* (Accepted). (Impact Factor, 3.72)
9. Naglaa M. Loutfy, **Farag M. Malhat**, Essam Kamel & Ayman Saber (2015). Residual Pattern and Dietary Intake of Iprodione on Grapes under Egyptian Field Conditions, A Prelude to Risk Assessment Profile. *International Journal of Human and Ecological Risk Assessment*, 21(1), 265-279. (Impact Factor, 1.10)
 10. Mohamed Tawfic Ahmed, **Farag M. Malhat** & Naglaa M. Loutfy (2015). Residue Levels, profiles and daily intake of polycyclic aromatic hydrocarbons based on smoked fish consumption, An Egyptian Pilot Study. *Polycyclic Aromatic Compounds*, (Accepted). (Impact Factor, 0.76).
 11. **Farag M. Malhat**, Amani El-Mesallamy, Mohamed Assy, Walid Madian, Naglaa M. Loutfy & Mohamed Tawfic Ahmed. (2015). Human Risk Assessment of Pyridaben Residues in Strawberries. *International Journal of Human and Ecological Risk Assessment*, 21(1), 241-249. (Impact Factor, 1.10)
 12. **Farag M. Malhat**, Naglaa M. Loutfy & Wasfy Thabet (2014). Dissipation Profile and Human Risk Assessment of Pyrimethanil Residues in Cucumbers and Strawberries. *Journal of Health & Pollution*, 4(7), 36-41.
 13. **Farag M. Malhat**, Haytham M. El Sharkawi, Naglaa M. Loutfy & Mohamed Tawfic Ahmed. (2014) Field dissipation and Health hazard Assessment of Fenhexamid on Egyptian Grapes. *Toxicological & Environmental Chemistry*, 96 (5), 722-729. (Impact Factor, 0.83)
 14. **Farag M. Malhat**, Naglaa M. Loutfy & Mohamed Tawfic Ahmed. (2014). Dissipation Kinetics of Novaluron in Tomato: An Arid Ecosystem Pilot Study. *Toxicological & Environmental Chemistry*, 96(1), 41-47. (Impact Factor, 0.83).
 15. N. M. Abou-Arab, M. S. Abd-El-Samea, **Farag M. Malhat** & S. M. El-Taher (2014). Detection of some potential carcinogenic polycyclic aromatic hydrocarbons in smoked fish. *Global Journal of Agriculture and Food Safety Sciences*. 1:346-356.
 16. **Farag M. Malhat**, Hirozumi Watanabe, Naglaa M. Loutfy & Mohamed Tawfic Ahmed. (2014). Hazard assessment of the neonicotinoid insecticide thiamethoxam residues in tomato: a prelude to risk assessment profile. *Toxicological & Environmental Chemistry*, 96(2), 318-327. (Impact Factor, 0.83)
 17. **Farag M. Malhat**, Hany Badawy, Dalia Barakat & Ayman Saber (2014). Residues, Dissipation and safety evaluation of chromafenozide in strawberry under open field condition. *Food Chemistry*, 152, 18-22. (Impact Factor, 3.39)

18. Ahmed Youssef & **Farag M. Malhat** (2014). Selective removal of heavy metal from drinking water using titanium dioxide nanowire. *Macromolecule symposia*, 337, 96-101. (Impact Factor, 0.9)
19. S. M. El-Sayed, A. Hagrass, A. Askar, **Farag M. Malhat**, M. El-Sayed & M. Abd El-Salam (2014). Storage stability of thiamin, riboflavin and pyridoxine in UHT milk. *Egyptian Journal of Dairy Science*, 42: 1-6.
20. **Farag M. Malhat**, Abd El-Salam Fayz, Naglaa M Loutfy & Mohamed Tawfic Ahmed (2013) Residues and dissipation of the pesticide emamectin benzoate under Egyptian field conditions: A case study. *Toxicological & Environmental Chemistry*, 95 (7) 1099-1107. (Impact Factor, 0.83)
21. **Farag M. Malhat**, Amani El-Mesallamy, Mohamed Assy, Walid Madian, Naglaa M. Loutfy & Mohamed Tawfic Ahmed. (2013). Residues, half-life times, dissipation and safety evaluation of the acaricide fenpyroximate applied on grapes. *Toxicological & Environmental Chemistry*, 95(8) 1309-1317. (Impact Factor, 0.83)
22. **Farag M. Malhat**, Essam Kamel, Ayman Saber, Ehab Hassan, Ahamed Youssef, Monir Almaz, Ayman Hassan & Abd El-Salam Fayz (2013). Residues and dissipation of kresoxim methyl in apple under field condition. *Food Chemistry*, 140, 3716374. (Impact Factor, 3.39)
23. **Farag M. Malhat** (2013). Simultaneous Determination of Spinetoram Residues in Tomato by High Performance Liquid Chromatography combined with QuEChERS method. *Bulletin of Environmental Contamination & Toxicology*, 90 (2), 222-226. (Impact Factor, 1.26)
24. **Farag M. Malhat**, H. Badawy, D. Barakat & A. Saber (2013). Determination of etoxazole residues in fruits and vegetables by SPE clean-up and HPLC-DAD. *Journal of Environmental Science and Health, Part B*, 48, 1-5. (Impact Factor, 1.20)
25. Ahmed .M. Youssef & **Farag M. Malhat** (2013). Preparation and utilization of polystyrene nanocomposites based on TiO₂ nanowires. *Polymer-Plastics Technology and Engineering*, 52, 228-253. (Impact Factor, 1.48)
26. **Farag M. Malhat** & Islam Nasr (2013) Monitoring of Organophosphorous Pesticides Residues in Water from the River Nile Tributaries. *American Journal of Water Resources*, 1(1), 1-4
27. Ahmed .M. Youssef, Abou El Fettouh Abd El-Hakim, **Farag M. Malhat**, & Ahmed A. Haroun (2013). Free Emulsion Polymerization of Styrene/Layered Double Hydroxide Nanocomposites for Cd and Pb (II) ions Removal from

- Aqueous Media. Nanoscience and nanotechnology, An Indian journal, 7 (3), 116-121.
28. Hussein A. Kaoud, M.H. Hellal, **Farag M. Malhat**, Sherein Saeid, Ibtesam A.Elmaewella & Ashour H. Khali (2013). Effects of acute sub-lethal dose of Tramadol on 2-adreergic receptors and liver histopathology in rat. Global Journal of Current Research, 1 (2), 70-76.
 29. S. M. El-Sayed, A. Hagrass, A. Askar, **Farag M. Malhat**, M. El-Sayed & M. Abd El-Salam (2013). Effect of using vitamin B producing microorganisms as adjunct cultures in the manufacture of yoghurt. Egyptian Journal of Dairy Science, 41: 127-136.
 30. S. M. El-Sayed, A. Hagrass, A. Askar, **Farag M. Malhat**, M. El-Sayed & M. Abd El-Salam (2013). Determination of thiamin, riboflavin and pyridoxine in some milk products marketed in Cairo area by high performance liquid chromatography. Egyptian Journal of Dairy Science, 41: 119-126.
 31. **Farag M. Malhat** (2012). Persistence of metalaxyl residues on tomato fruit using high performance liquid chromatography and QuEChERS methodology. Arabian Journal of Chemistry, Article in press. (Impact Factor, 3.72)
 32. **Farag M. Mlahat**, H. Abdallah and I Hegazy (2012). Dissipation of Chlorantraniliprole in Tomato Fruits and Soil. Bulletin of Environmental Contamination and Toxicology, 88(3):349-351. (Impact Factor, 1.26)
 33. **Farag M. Malhat**, M. Hagag, A. Saber & A. Fayz (2012) Contamination of Cows Milk by Heavy Metal in Egypt. Bulletin of Environmental Contamination and Toxicology, 88 (4), 611-613. (Impact Factor, 1.26)
 34. **Farag M. Malhat** & H. Abdallah (2012). Dissipation and Residues of Mandipropamid in Grape Using QuEChERS Methodology and HPLC-DAD. ISRN Analytical Chemistry Volume 2012, Article ID 267596, ID 267596, 5 pages doi:10.5402/2012/267596.
 35. **Farag M. Mlahat** (2012). Organophosphorus Pesticide Residues in Cow's Milk from Egypt. Analytical Chemistry: An Indian Journal 11(5):176-179.
 36. **Farag M. Malhat** (2012) Determination of Chlorantraniliprole Residues in Grape by High-Performance Liquid Chromatography. Food Analytical Methods, 5 (6): 1492-1496. (Impact Factor, 1.96)
 37. **Farag M. Malhat**, H. Abdallah & I. Nasr (2012). Estimation of Etofenprox Residues in Tomato Fruits by QuEChERS Methodology and HPLC-DAD. Bulletin of Environmental Contamination & Toxicology, 88 (6): 891-893. (Impact Factor, 1.26)

38. **Farag M. Mlahat** & M. Hagag (2012). Distribution of Some Persistent Organic Pollutants (POPs) in Cow's Milk in Egypt. *Research and Review in Biosciences*, 6 (8):200-203.
39. S. M. El-Sayed, A. Hagrass, A. Askar, **Farag M. Malhat**, M. El-Sayed & M. Abd El-Salam (2012). Simultaneous determination of retinol -tocopherol and -carotene contents using HPLC in some milk and dairy products marketed in Cairo area. *Egyptian Journal of Dairy Science*, 40: 149-158.
40. **Farag M. Malhat**, M. Almaz, M. Arief, Kamal El-Din & M. Fathy (2012). Residue and Dissipation Dynamics of Lufenuron in Tomato Fruit Using QuEChERS Methodology. *Bulletin of Environmental Contamination & Toxicology*, 89(5): 1037-1039. (Impact Factor, 1.26)
41. **Farag M. Malhat** (2012). Residues and Dissipation of Fenitrothion in Green Bean (*Phaseolus vulgaris*) and Soil. *ISRN Soil Science Volume 2012*, Article ID 365317, 4 pages doi:10.5402/2012/365317.
42. **Farag M. Malhat** & I. Nasr (2012). Metals in water from the River Nile Tributaries in Egypt. *Bulletin of Environmental Contamination & Toxicology*, 88(4):5946596. (Impact Factor, 1.26)
43. **Farag M. Malhat** & I Nasr (2012). Organophosphorus Pesticides Residues in Fish Samples from the River Nile Tributaries in Egypt. *Bulletin of Environmental Contamination and Toxicology*, 87(6): 6896692. (Impact Factor, 1.26)
44. **Farag M. Malhat** & A. Hassan (2011). Level and Fate of Etoxazole in Green Bean (*Phaseolus vulgaris*). *Bulletin of Environmental Contamination and Toxicology*, 87(2) 1906193. (Impact Factor, 1.26)
45. Nabela, I. E., Abou Hadeed, A. H., Saleh, F. M. Sakr, **Farag, M. Malhat** & Samah, A. A. (2011). Effects of barley grass powder (*Horidium Vulgare*) on Behavioral and Histological alterations of Nile Tilapia exposed to Chloropyrifos insecticide. *Egyptian Journal of Aquatic Biology & Fisheries*, 5(3): 349-362.
46. **Farag M. Malaht** (2011). Distribution of Heavy Metal Residues in Fish from the River Nile Tributaries in Egypt. *Bulletin of Environmental Contamination and Toxicology*, 87(2):1636165. (Impact Factor, 1.26)
47. I. Nasr, M. Arief, A. Hassan & **Farag M. Malhat** (2010). Polycyclic Aromatic Hydrocarbons (PAHs) in Aquatic Environment at El Menofiya Governorate, Egypt. *Journal of Applied Sciences Research*, vol. 6, no. 1, pp. 13621.

48. I. Nasr, M. Arief, A. Hassan & **Farag M. Malhat** (2009). Persistent Organic Pollutants (POPs) in Egyptian Aquatic Environment. Journal of Applied Sciences Research, 5(11): 1929-1940.

B. Conference Articles

1. H. Abdallah & **Farag M. Malhat** (2012). Residues and Dissipation of Tetraconazole in Green bean under Field Condition using QuEChERS method and GC-ECD. Cairo international conference for clean pest management, 12-13 November 2012.

C. Conference Poster

1. Ahmed Youssef & **Farag M. Malhat** (2013). PVA/FMWCNTs nanocomposites: preparation, characterization and its utilization. 11th arab international conference on polymer science & technology. Hurghada, Egypt, 16-19 September.
2. Ahmed Youssef & **Farag M. Malhat** (2012). Incredible Utilization of Polymer/Clay Nanocomposites for Removing Pesticides from Waste Water. Bio Vision Alexandria, Egypt, 2012.

D. Oral Presentation

1. **Farag Malhat**, Julien Boulange, Piyanuch Jaekaw, Ayman Saber and Hirozumi Watanabe(2015) Neonicotinoids and Fipronil Insecticides Transport and Fate from/in Upland Field under Simulated Rainfall Events. 1st international conference on environment, livelihood, and services: Environment for life, 2-5 November 2015, Bangkok, Thailand.
2. Ayman Saber, **Farag Malhat**, Julien Boulange, Piyanuch Jaikaew and Hirozumi Watanabe (2015) Degradation of Fipronil in Andisol soil under Different Temperature and Moisture Regimes: Laboratory Study. 1st international conference on environment, livelihood, and services: Environment for life, 2-5 November 2015, Bangkok, Thailand.
3. Hirozumi Watanabe, Julien Boulange, Jaikaew Piyanuch, **Farag Malhat** and Ayman Saber (2015) Monitoring and Modeling of Pesticide Fate and Transport in Agricultural Environments. 1st international conference on environment, livelihood, and services: Environment for life, 2-5 November 2015, Bangkok, Thailand
4. Piyanuch Jaikaew, Julien Boulange, Dang Quoc Thuyet, **Farag Malhat**, Satoru Ishihara and Hirozumi Watanabe (2015) Investigating the Fate and Transport of Herbicide Residues in Andisol Soil under Natural Field Conditions During Summer and Winter Seasons. 1st international conference on environment,

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livelihood, and services: Environmet for life, 2-5 November 2015, Bangkok, Thailand.

5. **Farag Malhat**, Julien Boulange, Piyanuch Jaikaew & Hirozumi Watanabe (2015). Investigating precipitation, surface runoff, and sediment runoff relations used in SWAT through rainfall simulator experiments in Japan. MARCO Satellite International Workshop 2015 "Adoption and adaptation of SWAT for Asian crop production systems and water resource issues" International SWAT-Asia Conference IV (SWAT-Asia IV). October 20-23 Venue: Tsukuba Bioscience Hall (TBH), Tsukuba, Japan.
6. **Farag Malhat**, Piyanuch Jaikaew, Julien Boulange & Ayman Saber, Hirozumi Watanabe (2015). A portable rainfall/runoff simulator for assessment of herbicides and sediment transfer via surface runoff: A prelude to field scale study. Pesticide Science Society 40th Annual Meeting, At Tamagawa University. March 19-20, 2015, Japan
7. Indra Purnama, **Farag Malhat**, Hirozumi Watanabe, Piyanuch Jaikaew, Bambang Rusdiarso, Sri Noegrohati (2015) Effect of different temperature on the degradation pattern of azoxystrobin in Andisol soil Effect of different temperature on the degradation pattern of azoxystrobin in Andisol soil. Pesticide Science Society 40th Annual Meeting, At Tamagawa University. March 19-20, 2015, Japan.
8. **Farag Malhat** (2015). Pesticide Regulatory System and Actual Pesticide Uses in Egypt. International Pesticide research & management Workshop held in cooperation of PFT TUAT and ACIS FAMIC, Japan on Feb 6th 2015
9. **Farag Malhat** (2011). Recommended methods of sampling for the determination of pesticide residues in fruit and vegetables, Dubai, UAE.
10. **Farag Malhat** (2013) pesticides and safety use, Cairo, Egypt.

E. **Contributed in scientific conferences**

1. 1st international conference on environment, livelihood, and services: Environment for life, 2-5 November 2015, Bangkok, Thailand.
2. International SWAT-Asia Conference IV (SWAT-Asia IV). October 20-23 Venue: Tsukuba Bioscience Hall (TBH), Tsukuba, Japan.
3. Pesticide Science Society 40th Annual Meeting, At Tamagawa University. March 19-20, 2015, Japan.
4. Nobel Prize Dialogue Tokyo (The Genetic Revolution and Its Future Impact) Japan, March 1, 2015

5. The Sixth Annual Conference of Agricultural Chemistry and Environment Protection Society for applied researches for environment protection and agricultural development, Cairo-Ain Shams University, 27-28 February 2013.
6. The Eleven Arab international conference on polymer science & technology. Hurgada, Egypt, 16-19 September, (2013).
7. Cairo international conference for clean pest management, Cairo- Egyptian Center for Agriculture, 12-13 November, 2012.

F. Contributed in Workshop

1. International Pesticide research & management Workshop held in cooperation of PFT TUAT and ACIS FAMIC, Japan on Feb 6th 2015.
2. TUAT-MARCO Joint International Workshop on Rice Paddy Module Development in SWAT 2014 ó Development of a tool for sustainable rice production in Asia and world, Japan 18-21 November, 2014
3. Pesticide management and its residues effects between hope and reality, Cairo- Egyptian Center for Agriculture, 26th March 2013.
4. Solid Phase Extraction (SPE) sample preparation (Aglient), intercontinental Cairo-City stars 20th May 2013
5. Research Ethics and Commercialization. Centre for special studies and programs (CSSP) in cooperation with the world academy of sciences for the advancement of science in developing countries Arab Regional Office (TWAS-ARO) at the Bibliotheca Alexandrina, Alexandria, Egypt, 19-21 November 2013.

Awards

1. JSPS Postdoctoral fellowship for 2 year awarded from Japan society for the promotion of sciences (JSPS).

Scientific Society & Association Membership

1. Pesticide Science Society of Japan.
2. Agricultural Chemistry and Environment Protection Society, Egypt.
3. Egyptian Pesticide Society.
4. World Association of Young Scientists.

References

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