

Dr. Abdel-Tawab Halim Mossa

Professor of Pesticides "Pesticides Chemistry and Toxicology", and Head of Pesticide Chemistry Department, Chemical Industries Research Institute, National Research Centre, Cairo, Egypt.
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Prof. MOSSA is head of pesticide Chemistry Department an expert in the field of pesticide science, with a Ph.D. degree from Alexandria University in pesticide chemistry and toxicology obtained in 2004. He conducts research on various aspects of pesticide chemistry and toxicology, such as pesticide residues, risk assessment, green pesticides, nanoformulations, nanopesticides, climate change, pest control in agriculture and public health, plant health, and environmental health. He has been recognized with several awards and honors for his outstanding contributions to the field. He has also secured funding from various national and international agencies for his research projects. He serves as a scientific consultant for international and national companies and an adjunct professor at international universities in India and France. He is coordinator of the Permanent Scientific Committee for Agricultural Sciences, for promoting professors and assistant professors, a member of the Egyptian Committee of Toxicology, and the Scientific Committee of the Rehabilitation Center, and the repositories of NLA, Egypt. He is also an editorial member and reviewer for various reputed journals. He has organized and participated in many international and national conferences and workshops. Prof. MOSSA has a prolific publication record, with more than 100 publications (i.e., research articles, book chapters, reviews), and three patents, and he also supervises many MSc and PhD theses.

Prof. Mossa extensive consulting work includes notable positions at Al Sharhan Industries in West Shuiba, Kuwait, and Wethaq Pest Control and Service. His expertise also extends to the Pico of Modern Agriculture in Cairo, Egypt, and the Spice Kingdom Company in Obour City, Egypt. He works for the development of new methods, compounds, technologies, and technology transfer. Prof. Mossa has scientific cooperation with other scientists from France, Bulgaria, India, China, the USA, and others. His contributions have placed him in the top 2% of scientists worldwide in his field.

Prof. Mossa holds two patents in the field of pesticide development, focusing on the creation of new green and nanopesticides. His work encompasses various projects that span pesticide development, pest control strategies, plant protection methods, health risk assessments, and innovative techniques for the removal of pesticide residues utilizing agricultural waste.

Curriculum Vitae



Personal information

Full Name: Abdel-Tawab Halim Mossa **Sex & Marital Status:** Male; Married

Nationality: Egyptian. **Date of birth:** 09/02/1970

E-mail: abdeltawab.mossa@yahoo.com **Residence:** Cairo

Languages: Arabic (native), English (Written, Spoken)

Citation and H Index

ORCID ID

<https://orcid.org/0000-0002-8112-8553>

Scopus:

Author ID: 25936490500 **H Index:** 24

Name: Mossa, A. T H **other formats** Mossa, A. H.; Mossa A. T. H.

Highly cited: 232 **Citations:** 1,974

Documents: 73

<http://www.scopus.com/authid/detail.url?authorId=25936490500>

Google citation:

Name: Abdel-Tawab H. Mossa

H-index: 30 **Highly cited** 374

Documents: 100 **Citations:** 3381

http://scholar.google.com/citations?user=zUp1Q_UAAAAJ&hl=en

Affiliation

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Chemical Industries Research Institute

Pesticide Chemistry Department

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202-0100 503 8 504 (Cell)

Role: Professor in Pesticide (Pesticide Chemistry and Toxicology).

Education and degrees

- **PhD (2004)** Genotoxicity of Pesticides. Pesticide Chemistry and Toxicology Department, Faculty of Agriculture (Damanhour), Alexandria University, Egypt.
- **MSc (1998)** Toxicity and Residues of some Pesticides on and in some Vegetable Crops. Pesticide Chemistry Department, Faculty of Agriculture (Damanhour), Alexandria University, Egypt.
- **BSc (1994)** Plant production Department, Faculty of Agriculture (Damanhour), Alexandria University, Egypt.

Career experience

- December 28, 2023 - -present: Head of Pesticide Chemistry Department, National Research Centre (NRC).
- July 2016 -present: Professor at Pesticide Chemistry Department, National Research Centre (NRC).
- February 2011- July 2016: Associate Professor at Pesticide Chemistry Department, National Research Centre (NRC).
- January 2006 - 2011: Researcher at Pesticide Chemistry Department, NRC.
- May 2004 - 2005: Associate Researcher at Pesticide Chemistry Dept., NRC.
- February 1997 -2004: Expert in Experts Administration, Ministry of Justices, Arab Republic of Egypt.

Teaching

1995- 2005: Pesticide Chemistry and Toxicology Department, Faculty of Agriculture (Damanhour), Alexandria University.

Scientific consultants

- Scientific consultant of **Al Sharhan** Industries, West Shuiba, Kuwait.
- Scientific consultant of **Wethaq** of Pest Control and Service, Cairo, Egypt.
- Scientific consultant of **Pico** of modern agriculture, Cairo, Egypt.
- Scientific consultant of **Spice Kingdom** Company, Obour City - Egypt.

Scientific committees

- National Committee of Toxicology, Academy of Scientific Research and Technology, Egypt.
- Scientific Committee of the Rehabilitation Center, the repositories of NLA, Egypt.
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Societies Membership

- Society of Toxicology (<https://www.toxicology.org/about/>)
- The Asia Society of Researcher (ASR), ASR Member Number: R219041601(<http://www.asr.org/>)
- International Technology and Engineering Educators Association. (ITEEA, <https://www.iteea.org/Activities.aspx>), 1914 Association Drive, Suite 201, Reston, VA 20191, USA.
- Egyptian Society of Toxicology.
- Egyptian Society of Chemistry
- Arabic Society of Medicine Research
- Egyptian Society of Environmental Mutagenesis

Scope of Research Activities

- Pesticide residues and toxicology
- Development of green and eco-friendly pesticides
- Nanoformulations and nanopesticides
- Food safety and health risk assessment of exposure to pesticide residues
- Public health pesticides and control of Vector-bore diseases
- Mammalian biochemical toxicology investigations on pesticides and heavy metals.
- Genotoxicity and endocrine disrupter of pesticides and heavy metals on mammals.
- Cytotoxicity effects of oxygen free radicals and reactive oxygen compounds (i.e. pesticides, heavy metals) on antioxidant enzymes in erythrocytes membrane *in vivo* and *in vitro*.

- Hazard evaluation of long-term exposure to pesticides and environmental pollutant on the health of rural agricultural workers.
- Assessment and modeling of toxicity interactions of xenobiotics in living organisms.
- Microtox assay to determine the toxicity of aquatic pollutants, wastewaters, fossil fuel process water, mycotoxins, pesticides, petrochemicals, and potential carcinogens.
- Bioassay-guided fractionation (BGF) for investigating botanical biocides against pests of hygienic and economic importance.
- Monitoring of toxic chemicals, their residues, transformations and accumulation in natural ecosystems.
- Detoxification and environmental remediation approaches.
- *In vitro* and *in vivo* evaluation of antioxidant against xenobiotics induced oxidative damage.

Book chapter

1. **Mossa A.H.**, Mohafrash S.M.M. (2022). Green nanoemulsion insecticides: Toxicity, safety, and applications. In *Bio-Based Nanoemulsions for Agri-Food Applications* (pp. 197-206). Elsevier.
2. Mukherjee A., Panda S., Jeelani P. Gh., **Mossa A.H.**, Chidambaram R. (2022). Silica-based nanocomposites for preservation of post-harvest produce. In *Nanotechnology Applications for Food Safety and Quality Monitoring* (pp. 395-414), Elsevier.
3. Barve S., Singh N.V.V., Rasbhara C., Sarkar P., Jeelani P. Gh., **Mossa A.H.**, Chidambaram R. (2022). Biodegradable polymers/silica nanocomposites: Applications in food packaging In *Nanotechnology Applications for Food Safety and Quality Monitoring* (pp. 373-394). Elsevier.

Awards

- Award for Scientific Excellence, National Research Centre, 2020.
- Award for Excellence in Research Output, 2015, 2014, 2012

Patent

Patent No.: 1925 Submitted at 2015
 Patent No.: 31198 Granted at 2023
 Patent No.: 31070 Granted at 2023

Supervisor

Supervising MSc student:

- **Thesis "Rasha Metwally El-Sanhoury"**: Biological Activity of Plant Extracts against Some Weeds of Economic Importance, Botany and Microbiology Department, Faculty of Science (Girls Branch), AL-Azhar University.
- **Thesis "Nada Ahmed Ibrahim Abdelmawla"** Preparation of eco-friendly nano-insecticides for controlling mosquito and housefly" Zoology and Entomology Department, Faculty of Science (Girls Branch), AL-Azhar University.
- **Thesis "Mohamed Mahmoud Mohamed Abd el rhman"** The effectiveness of nano formulations of some natural oils against the red palm weevil" Entomology and Pesticide Department, Faculty of Agriculture, Cairo University.
- **Thesis "Asmaa Mahmoud Yousef"** Squash plant response to soil treatment and foliar spraying with nano-sized potassium under salt stress condition" Plant Physiology Department, Faculty of Agriculture, Fayoum University.

Supervising PhD student:

- **Thesis "Khames Ahmad Reiad"**: Management of Grapevine Root-Rot Disease by Nanoparticles, Plant Pathology Department, Faculty of Agriculture, Ain Shams University.

- **Thesis "Alia Ahmed Abdel Hamed Omar"** Preparation of plant extracts loaded nanoemulsions and their protective effects on rats exposed to chlorpyrifos and imidacloprid" Zoology and Entomology Department, Faculty of Science (Girls Branch), AL-Azhar University.
- **Thesis "Ayah Mounir El-Saghir"** Ecofriendly green nano pesticides for control fungi causing the deterioration of ancient cultural heritage in the repositories of NLA of Egypt" Microbiology Department, Faculty of Science (Girls Branch), AL-Azhar University.

Scientific Missions

1. **September 14-20, 2012:** Laboratoire des Interactions Moléculaires et Réactivité Chimique et Photochimique, Université Paul-Sabatier, Toulouse, France.
2. **May31 -June30, 2013:** Laboratoire des Interactions Moléculaires et Réactivité Chimique et Photochimique, Université Paul-Sabatier, Toulouse, France.
3. **October 20-28, 2013:** Laboratoire des Interactions Moléculaires et Réactivité Chimique et Photochimique, Université Paul-Sabatier, Toulouse, France.
4. **April 1-30, 2014:** Laboratoire des Interactions Moléculaires et Réactivité Chimique et Photochimique, Université Paul-Sabatier, Toulouse, France.
5. **October 13-31, 2014:** Chinese Academy of Agricultural Sciences, Beijing, P. R. China.
6. **September 2-7, 2015:** Laboratoire des Interactions Moléculaires et Réactivité Chimique et Photochimique, Université Paul-Sabatier, Toulouse, France.
7. **November 28-30, 2015:** Scientific Consultant, Al Sharhan Industries, Kuwait.
8. **July 10-18, 2016:** Institute of Biodiversity and Ecosystem Research, Sofia, Bulgaria.
9. **May 13- 7 July 2017:** Laboratoire des Interactions Moléculaires et Réactivité Chimique et Photochimique, Université Paul-Sabatier, Toulouse, France.
10. **November 16-26, 2017:** Institute of Biodiversity and Ecosystem Research, Sofia, Bulgaria.
11. **February 12-22, 2018:** adjunct Professor at Vellore Institute of Technology, Vellore University, India.
12. **April 12-22, 2018:** Institute of Research for Sustainable Development (IRD), Montpellier, France.
13. **August 10-17, 2018:** Institute of Biodiversity and Ecosystem Research, Sofia, Bulgaria.
14. **May 23-25, 2019:** adjunct Professor at French Biotechnology Engineering School, Paris, France.
15. **October 2-5, 2019:** adjunct Professor at Hospices Civils De Lyon, Paris, France.
16. **July 6 to 12, 2023:** Institute of Biodiversity and Ecosystem Research, Sofia, Bulgaria.
17. **November 27 to 11 December 2023:** Scichuan Academy of Natural Resource Sereneness "International Training Workshop on Kiwifruit Production, China.

Editorial Board

- 1- Frontiers in Environmental Toxicology
<http://community.frontiersin.org/people/Abdel-TawabMossa/60070>
- 2- Journal of Environmental and Analytical Toxicology
<http://www.omicsonline.org/editorialboardJEAT.php>
- 3- International Journal of Agricultural Research "Regional Editor"
<http://scialert.net/eboard.php?issn=1816-4897>
- 4- International Journal of Pharmacy and Pharmaceutical Science
<https://innovareacademics.in/journals/index.php/ijpps/editorial-board>
- 5- African Journal of Biochemistry Research
<http://www.academicjournals.org/ajbr/Editors.htm>
- 6- Journal of Pharmacology and Toxicology

- <http://scialert.net/eboard.php?issn=1816-496x>
- 7- Asian Journal of Agricultural Research
<http://scialert.net/eboard.php?issn=1819-1894>
- 8- Research Journal of Environmental Toxicology <http://scialert.net/eboard.php?issn=1819-3420>
- 9- Asian Journal of Scientific Research
<http://scialert.net/eboard.php?issn=1992-1454>
- 10- International Greener Journals
<http://gjournals.org/team.html>
- 11- Journal of Basic & Applied Sciences
<http://www.lifescienceglobal.com/independent-journals/journal-of-basic-and-applied-sciences/editorial-board>
- 12- Jacobs Journal of Entomology and Zoological Studies
<http://entomology.jacobspublishers.com/>

Reviews

- Pesticide Biochemistry and Physiology
- Plant Protection Research
- Drug and Chemical Toxicology
- Ecotoxicology and Environmental safety
- Food and Chemical Toxicology
- Hazardous Materials
- Ecotoxicology and Environmental Safety
- Environmental Toxicology
- Human and Experimental Toxicology
- Toxicology and Industrial Health
- Journal of Environmental & Analytical Toxicology
- Frontiers in Environmental Toxicology
- Journal of Pharmacology and Toxicology
- Science Alert Journals
- Others

Conference:

1. Speaker: The 20th Annual Scientific Conference of the Egyptian Society of Toxicology, "Safety and Uses of Drugs and Environmental Chemicals in Different Age Groups", 9-10 April 2005, Benisuif, Egypt.
2. Poster: The 2nd International Conference of Chemical Industries Research Division, "Chemical Industries: Role and Future Aspects", 21-23 November 2006, National Research Centre (NRC), Cairo, Egypt.
3. Speaker: The first Africana Congress in Pesticides and Toxicology Sciences, 8-11 November, 2008, Wad Medani, Soudan.
4. Poster: The 3th International Conference of Chemical Industries Research Division, "Chemical Industries: Role and Future Aspects", December, 2008, National Research Centre (NRC), Cairo, Egypt.
5. Speaker: The 10th Annual Congress of Medical Sciences, Medical Research towards Health Science, 14-16 January 2013, National Research Centre (NRC), Cairo, Egypt.
6. Speaker: The 11th Annual Congress of Medical Sciences, Medical Research between Theory & Applications: Challenges and Innovations, 17-19 December 2013, National Research Centre (NRC), Cairo, Egypt.

7. Speaker: The 3rd Pest Management Conference of the Sudan, ARC, 3rd – 4th February 2014, Wad Medani, Sudan.
8. Speaker: The 7th edition of CIPAM (International Congress on aromatic and medicinal plants), June 25-28, 2018, Faculty of Pharmacology University Toulouse III Paul Sabatier, France.
9. Speaker: The 3rd International Conference for Women in Science (World Forum for Women in Science), 10-14 March 2019, the British University in Egypt, Cairo, Egypt.
10. Speaker: ICTAP 2019, 21st International Conference on Toxicology and Applied Pharmacology, Jul 18-19, 2019, Paris France.
11. Speaker: webinar “Recent Approaches in Applied Chemistry and Its Role in Health Care Including Corona Virus, National Research Centre, November 17, 2020 Cairo, Egypt.
12. Speaker: webinar “Petrochemical poisoning: prevention and treatment” National Committee of Toxicology, ASRT, November 11 2020, Cairo, Egypt.
13. Speaker: Conference "International Seminar of Ecology", September 27-30, 2022 Sofia, Bulgaria.
14. Speaker: Conference “Egyptian 5th International Conference in Chemistry and 25th Egyptian Conference in Chemistry "Chemistry and Global Chemistry", 25-28 October 2022, Marse Alam, Egypt.
15. Speaker: Conference "International Seminar of Ecology", September 27-30, 2023 Sofia, Bulgaria.
16. Participated: Science and Technology Exchange Conference of China-New Zealand Belt and Road Joint Laboratory on Kiwifruit and International Symposium on Kiwifruit Innovation and Development, Sichuan Provincial Academy of Natural Resource Science, The New Zealand Institute for Plant and Food Research Limited, Deyang Science and Technology Bureau, Shifang People's Government, China
- 17.

Organization Committee

1. This 7th edition of CIPAM (International Congress on aromatic and medicinal plants), June 25-28, 2018, Faculty of Pharmacology University Toulouse III Paul Sabatier, France.
2. Workshop "Poisoning "Diagnosis and treatment" 26 December, 2018, National Committee of Toxicology, Academy of Scientific Research and Technology, Egypt.
3. Workshop "Safe use of pesticides "Protection of health, environment and economy" 27 March 2018, National Committee of Toxicology, National Research Centre, Egypt.
4. Conference "International Seminar of Ecology", April 18-19, 2019 Sofia, Bulgaria.
5. Conference "The 1st NRC-Grenoble INP International Conference on Science and Sustainable Development" 16th 18th September 2019, National Research Centre, Giza, Egypt.
6. Workshop "Climate Change "The Impact on Pesticide Use and Pest Management" 23 September 2019, National Research Centre, Egypt.
7. Conference "International Conference on Risk Assessment of Environmental Genotoxicants, 21 December 2019, Cairo, Egypt.
8. 24th Alexander Hollaender International Course Genetic Toxicology of Environmental Pollutants: Novel Approaches for Hazard Assessment, Risk Assessment and Risk Management, 22-23 December 2019, ASRT, Cairo, Egypt.
9. Webinar “Webinar Natural immunity during COVID-19 pandemic and after the new normal”, National Committee of Toxicology, ASRT, September 23 2020, Cairo, Egypt.
10. Webinar “Petrochemical poisoning: prevention and treatment” National Committee of Toxicology, ASRT, November 11 2020, Cairo, Egypt.
11. Conference "International Seminar of Ecology", September 28-30, 2022 Sofia, Bulgaria.

12. Workshop "Public Health Pesticides, National Committee of Toxicology, ASRT, September 27 2022, Cairo, Egypt.
13. Conference "the 3rd National Committee of Toxicology Conference and the 9th Pan African Environmental Genomic Mutagen Society Conference, December 19-20, 2022, in Cairo, Egypt, at Triumph Plaza Hotel, Cairo, Egypt.
14. Conference "the 3rd National Committee of Toxicology Conference and the 9th Pan African Environmental Genomic Mutagen Society Conference, December 19-20, 2022, in Cairo, Egypt, at Triumph Plaza Hotel, Cairo, Egypt.
15. Training Course, Basic Understanding of Risk Assessment and Its Application in Egypt and Africa To Established Safe Levels of Health Advisors and Regulations in the Air, Water and Food, December 21 2022, ASRT, Cairo, Egypt.
16. Conference "International Seminar of Ecology", September 27-30, 2022 Sofia, Bulgaria.
17. Workshop on Entrepreneurship and research management: From Labs to market, 15th January 2024, National Research Center (NRC).

Research Projects

Current research projects

1. **PI:** Nano-based green adsorbent from agriculture wastes for removal of pesticide residues and heavy metals, project no. 10124 Bulgaria Co-operation. Project No. (2022-2024).
2. **PI:** Development of eco-friendly nanoemulsion-based edible coating for reducing postharvest losses of fresh fruits and vegetables. NRC Project No. 13020208 (2013 – 2024).
- 3.

Completed research projects

1. **PI:** Antioxidant and hepatoprotective activities of some plant extracts against oxidative stress and liver damage induced by organophosphorus pesticides in weanling rats, Egyptian -French Co-operation. Project No. 109/ EGY/ FR 8-02.
2. **Member:** Producing Economically Important Chemical Intermediate Utilizing Agricultural Wastes, Science & Technology Fund (STDF), ID 133 (2009-2013).
3. **Member:** Medicinal Plants as Hepatoprotective and Hepatocurative agents, NRC Project No. 9080101 (2010-2013).
4. **Member:** Risk Assessment of Exposure to Chemical Mixtures (Pesticides & Heavy Metals), NRC Project No. 7010108 (2004-2007).
5. **Member:** Uses of Industrial and / or Agriculture Wastes and Local Chemicals in the Preparation of Economically Important Chemical Intermediates with Attempts to Find Small Applicable Integrated Technological Systems, NRC Project No. 8040104 (2007 – 2010).
6. **Member:** Study the production and marketing of green chemical products utilizing rice straw/rice husk, NRC Project No. 10130102 (2013-2016).
7. **Member:** Aquaculture Food Safety: Chemical Hazards, NRC Project No. 10110301(2013-2016).
8. **Member:** Rationalization of the functionalized carbon nano-tubes as innovative biological nano-carriers, NRC Project No.10070301 (2013-2016).
9. **Member:** Industrial feasibility of agricultural residues for production of biologically and economically high valued biopolymer derivatives, NRC Project No. 10130104 (2013-2016).
10. **Member:** Evaluate the efficiency of pesticides on cotton pests, Ministry of Agriculture, Egypt, 1997-2004, Pesticide Chemistry and Toxicology Department, Fac. of Agric. (Damanhour), Alex. Univ., Egypt.

11. **Member:** Therapeutic effect of plant-derived phenolic extracts on diabetic nephropathy, NRC Project No. (2016).
12. **Member:** Development new loading biocatalyst systems by using the functionalized carbon nano-tubes, NRC Project No. 11090308 (2016-2019).
13. **Member:** Agriculture wastes (trees) as a source of phytomedicine, NRC Project No. 11010318 (2016-2019).
14. **Member:** Preparation of safety nanoparticles formula for management major soil, foliar and fruit fungal diseases of cucumber, NRC Project No. 11030135 (2016-2019).
15. **Member:** Immunological profile in cord blood and growth assessment of the newborn relation to maternal exposure to environmental contaminants, NRC Project No. 11010140 (2016-2019).
16. **PI:** Strategies for overcoming the genetic risk of anthropogenic pollution with organophosphorus pesticides, Egyptian- Bulgaria Co-operation. Project No. (2016-2018).
17. **PI:** Hepatoprotective activities of some plant extracts against lipid peroxidation and oxidative stress induced by pesticides in liver of rats, Science & Technology Fund (STDF), ID 11953 (2015-2019).
18. **Member:** New Trend for Using Agriculture Waste to Remove Soil Pollutions, Science & Technology Fund (STDF), ID 41535 (2020-2022).
19. **Member:** Development and introduction of new products for jojoba shrubs growing under organic and inorganic farming systems and subject to the effects of environmental stresses, NRC Project No. 12010605 (2019 – 2021).
20. **PI:** Preparation of eco-friendly green and nanoinsecticides for insect vector-diseases control. NRC Project No. 12020201 (2019 – 2021).
21. **PI:** Preparation and characterization of eco-friendly green and nanopesticides for spider mite and aphids, Egyptian- Bulgaria Co-operation. Project No. (2019-2022).
- 22.

Publications

1. Abbassy MA, Marzouk MA, Belal AH, **Mossa AH** (1998). Residual levels of pirimiphos-methyl in fresh and postharvest-treated potatoes during storage and home processing. *Alex. Sci. Exch.*, 19(4): 529-542.
2. Abbassy MA, Belal AH, Seehy MA, **Mossa AH** (2004). *In vivo* genotoxic effect of two pyrethroid insecticides, cypermethrin and deltamethrin on male albino rats. *J. Agric. & Env. Sci. Alex. Univ.*, Egypt, 3 (2):27-38.
3. Mansour SA, **Mossa AH** (2005). Comparative effects of some insecticides as technical and formulated on male rats. *J. Egypt. Soc. Toxicol.*, (32): 41-54.
4. Marzouk MA, Sabra FS, **Mossa AH** (2005). Haematological profile of technical and formulated tribenuron-methyl of male albino rats. *Alex. J. Agric. Res.*, 50: 161-166.
5. Sabra FS, Marzouk MA, **Mossa AH** (2005). Reproductive effects of technical and formulated tribenuron-methyl on male albino rats. *Int. J. Agri. Biol.*, 7(6):1030-1033.
6. Abbassy MA, Belal AH, Seehy MA, **Mossa AH** (2005). *In vivo* genotoxic effects of two organophosphorus and one carbamate insecticides on male albino rats. *J. Agric. & Env. Sci. Alex. Univ.*, Egypt, 4 (1):57-68.
7. Abbassy MA, Belal AH, Seehy MA, **Mossa AH** (2007). *In vitro* effect of some insecticides on human lymphocytes. *J. Agric. & Env. Sci. Alex. Univ.*, Egypt, 5(1): 45-56.
8. Mansour SA, **Mossa AH**, Heikal TM (2007). Haematotoxicity of a new natural insecticide "spinosad" on male albino rats. *Int. J. Agri. Biol.*, 9(2): 342-346.
9. Mansour SA, **Mossa AH**, Heikal TM (2008). Cytogenetic and hormonal alteration in rats exposed to recommended "safe doses" of spinosad" and malathion insecticides. *Int. J. Agri. Biol.*, 10 (1): 9-14.

10. Mansour SA, Heikal TM, **Mossa AH** (2008). Biochemical and histopathological effects of formulations containing malathion and spinosad in rats. *Toxicol. Int.* 15 (2): 71-78.
11. Mansour SA, Heikal TM, **Mossa AH**, Refa AA (2008). Toxic effects of five insecticides and their mixture on male albino rats. *J. Egypt. Soc. Toxicol.* 39: 85-94.
12. Mansour SA, **Mossa AH**, Heikal TM (2009). Effect of methomyl on lipid peroxidation and antioxidant enzymes in rat erythrocytes: *in vitro* studies. *Toxicol. Indu. Hlth.* 25 (8): 557-563.
13. Mansour SA, **Mossa AH** (2009). Lipid peroxidation and oxidative stress in rat erythrocytes induced by chlorpyrifos and the protective effect of zinc. *Pest. Biochem. Physiol.* 93: 34-39.
14. Mansour SA, **Mossa AH** (2010). Oxidative damage, biochemical and histopathological alteration in rat exposed to chlorpyrifos and the role of zinc as antioxidant. *Pest. Biochem. Physiol.* 96: 14-23.
15. Mansour SA, **Mossa AH** (2010). Adverse effects of lactational exposure to chlorpyrifos in suckling rats. *Hum. Exp. Toxicol.* 92 (2): 77-92.
16. El-Ebiary NMA, Swellem RH, **Mossa AH**, Nawwar GAM (2010). Synthesis and antioxidant activity of new pyridines containing the gallate moieties. *Arch. Pharm. Chem. Life Sci.* 9: 528–534.
17. Mansour SA, **Mossa AH** (2011). Adverse effects of exposure to low doses of chlorpyrifos in lactating rats. *Toxicol. Indu. Hlth.*, 27(3) 213–224.
18. El-toumy SA, Mohamed SM, Hassan EM, **Mossa AH** (2011). Antioxidant activity of phenolic metabolites isolated and identified from *Acacia nilotica* flowers. *American Sciences* 7(3): 287-295.
19. Mansour SA, Heikal TM, Refaie AA, **Mossa AH** (2011). Antihepatotoxic activity of fennel (*Foeniculum vulgare* Mill.) essential oil against chlorpyrifos-induced liver injury in rats. *Global Environ. Sci. Technol.* 1: 1-11.
20. **Mossa AH**, Nawwar GA (2011). Free radical scavenging and antiacetylcholinesterase activities of *Origanum majorana* L. essential oil. *Hum. Exp. Toxicol.* 30 (10), 1501-1513.
21. **Mossa AH**, Refaie AA, Ramadan A (2011). Effect of exposure to mixture of four organophosphate insecticides at No Observed Adverse Effect Level (NOAEL) dose on rat liver: the protective role of vitamin C. *Res. J. Environ. Toxicol.* 5 (6), 323-335.
22. Marzouk MA, Abbassy MA, Mansour SA, **Mossa AH**, Elsayed SR (2011) Effect of dimethoate, dicofol and voltaren on oxidant/antioxidant status in male rats: Role of selenium. *J. Agric. &Env. Sci. Dam. Univ., Egypt, Vol.10 (2):* 40-60.
23. Heikal TM, **Mossa AH**, Marei GIKh, Abdel Rasoul MA (2012). Cyromazine and chlorpyrifos induced renal toxicity in rats: the ameliorating effects of green tea extract. *J Environ Anal Toxicol*, 2:146-153.
24. **Mossa A H**, Abbassy MA (2012). Adverse haematological and biochemical effects of certain formulated insecticides in male rats. *Res. J. Environ. Toxicol.* 6: 160-168.
25. Abbassy MA, **Mossa AH** (2012). Haemato-biochemical effects of formulated and technical cypermethrin and deltamethrin insecticides in male rats. *J. Pharmacol. Toxicol.* 7:312-321.
26. Marzouk MA, **Mossa AH**, Sabra FS (2012). Cytogenetic effects of technical and formulated tribenuron-methyl on rat bone-marrow cells. *J. Pharmacol. Toxicol.* 7:330-337.
27. **Mossa AH**, Heikal TM, Omara EA (2012). Physiological and histopathological changes in the liver of male rats exposed to paracetamol and diazinon. *Asian Pacific J. Trop. Biomed.* 12:S1683-S1690.
28. Heikal TM, **Mossa AH**, Nawwar GAM, El-Sherbiny M, Ghanem HZ (2012). Protective effect of a synthetic antioxidant "acetylgallat derivative" against dimethoate induced

- DNA damage and oxidant/antioxidant status in male rats. *J Environ Anal Toxicol.* 2:155-162.
29. Tarek MH, **Mossa AH**, Abdel Rasoul MA, Marei GIKh (2013). The ameliorating effects of green tea extract against cyromazine and chlorpyrifos induced liver toxicity in male rats. *Asian J. Pharma. Clin. Res.* 6: 48-55.
 30. Mostafa OMS, Abu El Einin HM, **Mossa AH** (2013). Inorganic elements alteration in *Biomphalaria alexandrina* snails naturally parasitized with *Echinostoma liei* or *Schistosoma mansoni*. *Sci. Inter.* 1 (5): 139-143.
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