

CURRICULUM VITAE

Prof. Fatma M. El-Demerdash

**Professor of Biochemistry
Department of Environmental Studies
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h-index: 35, Citations: 7325

2% World Scientists—2025

Academic Degrees:

- **B.Sc.**, with a “Very Good” grade average, in Biochemistry from the Faculty of Science, Alexandria University, Alexandria, Egypt.
- **M.Sc.**, (by coursework and research) in Biochemistry from the Faculty of Science, Alexandria University, Alexandria, Egypt.
- **Ph.D.**, in Environmental Studies from the Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.

Occupations:

- Demonstrator, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Assistant lecturer, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Assistant professor, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Associate professor of Biochemistry, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Professor of Biochemistry, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt
- Executive Director, University of Alexandria Research Center.

- **Member of Egyptian Universities Promotion Committees (Biochemistry committee), 2008-2011.**
- **Member of the basic medical Sciences for Research Centers and Institutes Committees, 2013**
- **Member of Egyptian Universities Promotion Committees (Biochemistry committee), 2016-2019.**
- **Member of Egyptian Universities Promotion Committees (Biochemistry committee), 2022-2025.**
- **Member of Egyptian Universities Promotion Committees (Biochemistry committee), 2025-2028.**

Prizes:

- **2002:** Prize of Alexandria University for Scientific Encouragement.
- **2004:** Prize of the Academy of Science and Technology for Scientific Encouragement in Environmental Research.

Grants:

- Mission is given by the Ministry of Higher Education for 6 months (July 2007-January 2008) in the field of Biochemistry and Molecular Biology, INRA, Centre de Recherche de Montpellier, University of Montpellier II, Montpellier, France.

Award

- Awarded **Marquis' Who's Who in the World, in Science and Engineering**, published in 24th, 25th, 26th Editions, 2006, 2007, 2008.

International Collaboration

- Organize the Scientific collaboration between Henan University in China and Alexandria University in Egypt.

Projects

- **Air pollution lab accreditation**
- **CIQAP project**

Programs of Education development and Quality assurance:

- Attend **6** Training Courses in the Faculty and Leadership Development Center (FLDC):
- Attend the Programme Specifications and Programme Report Workshop, Quality Assurance Unit, Faculty of Pharmacy, Alexandria University, 21 November 2005.
- Attend a workshop "How to Write a Successful Research Proposal" that held at the Bibliotheca Alexandrina 8-10 December 2005, Alexandria, Egypt.
- Attend a workshop on Peer Reviewers, 24-25 December 2008, HEEP 2, Alexandria University, Alexandria, Egypt.

Peer reviewer for the following international Journals:

- 1) Toxicology
- 2) Toxicology in vitro
- 3) Food and Chemical Toxicology
- 4) Cell Biology International
- 5) Cell Biology and Toxicology
- 6) Free Radical Research
- 7) Fish physiology and Biochemistry
- 8) Pesticide Biochemistry and Physiology
- 9) Journal of Pharmacy and Pharmacology.
- 10) Journal of Health Science.
- 11) Pharmacological Research.
- 12) Journal of Medicinal Food.
- 13) Journal of Toxicology and Environmental Health.
- 14) Archives Of Environmental Contamination And Toxicology
- 15) Animal Biology
- 16) Ecotoxicology and Environmental Safety
- 17) Journal of Diabetes Mellitus
- 18) Journal of Environmental Science and Health, Part B
- 19) Journal of Xenobiotica
- 20) Drug and chemical toxicology
- 21) Environmental Toxicology
- 22) Toxicology Research
- 23) Bioresource Technology
- 24) Environmental Science and Pollution Research
- 25) Biology of Reproduction
- 26) Toxicology Reports
- 27) HELIYON
- 28) Immunopharmacology and Immunotoxicology
- 29) Medicinal Research Reviews
- 30) Natural Product Communication
- 31) Journal of Food Biochemistry
- 32) Arabian Journal of Chemistry
- 33) Toxicology Research Journal
- 34) MDPI Journals
- 35) Neurotoxicology and Teratology

Editorial Board:

- Editorial Board Member in **Journal of ENVIRONMENTAL SCIENCES AND HEALTH, PART B, TAYLOR AND FRANCIS**
- Editorial Board Member in **Pharmacologia, A SCIENCE MAGAZINE.**
- Lead Guest Editor of a Special Issue on "**Oxidative Stress Biomarkers and Antioxidants**" Journal of Toxicology, Hindawi
- Lead Guest Editor of a Special Issue on "**Biochemical and Toxicological Aspects of Pesticides**" Journal of Environmental Science and Health- Part B, Taylor and Francis.
- Guest Editor of Special Issue on "**Matrix Metalloproteinases as a Pleiotropic Biomarker in Medicine and Biology**" Disease Biomarkers, Hindawi 2016.
- Lead Guest Editor of Special Issue on "**Xenobiotics, Oxidative Stress and Antioxidants**" Oxidative Medicine and Cellular Longevity, Hindawi 2017.
- Guest Editor of Special Issue on "**Mechanisms of the Functional Components from Edible Fungus**" Food Science and Human Wellness, Hindawi, 2020
- Guest editor of Special issue: "**Toxicity Mechanisms, Exposure, Toxicokinetic and Risk Assessment Aspects of Metals, Toxic for Animals and Humans**", **Frontiers in Pharmacology 2020.**
- Guest editor of Special issue entitled: "**Toxicity Mechanisms, Exposure, Toxicokinetic and Risk Assessment Aspects of Metals, Toxic for Animals and Humans**", Part II. **Frontiers in Pharmacology 2022.**
- **Academic Editor, Biomed Research International, Hindawi. 2019**
- **Academic Editor, Oxidative Medicine and Cellular Longevity, Hindawi 2022**

- **Editorial Board member in Nurture (Online ISSN : 1994-1633/ Print ISSN: 1994-1625).**
- **Editorial Board member in Exploratory Research and Hypothesis in Medicine (ERHM) (<https://www.xiahepublishing.com/journal/erhm>)**
- **Lead Guest Editor of Special Issue: Effects of chemical-induced Organ Damage via Inducing Antioxidant Defense Responses.** *Toxics* (ISSN 2305-6304, <https://www.mdpi.com/journal/toxics>, 2023).
- **Guest Editor of Special Issue: Toxic effects and protective mechanisms of dangerous substances in animal production.** *Frontiers in Veterinary Science*. 2023 https://www.frontiersin.org/research-topics/51520/toxic-effects-and-protective-mechanisms-of-dangerous-substances-in-animal-production?utm_source=F-RTM&utm_medium=TED1&utm_campaign=PRD_TED1_T1_RT-TITLE
- **Editorial Board member in Food and Medicine Homology.** <https://www.sciopen.com/journal/3006-6867?isRedirect=1#about-journal>
- **Editorial Board Member of *Natural Product Communications*, Sag Journals**

International Conference Organization:

- Member of the National Scientific Committee of the International Conference of African Association for Physiological Sciences, Ismailia 2-5 September 2012, Egypt.
- Member of the Program Technical Committee of the International Conference on Pharmaceutical Sciences, ICPS 2015 Dubai.
- Advisory Board member, International Conference on Food and Food Technology, Dubai, UAE, Aug 16-17, 2019.
- Advisory Board, International Summit on Agricultural Technology, Dubai, UAE, Aug 16-17, 2019.
- Organizing Committee member and Keynote speaker at the International Experts Summit on Toxicology and Pharmacology (IESTP2023), which held during October 09-11, 2023, in Dubai, UAE. <https://meghazmeetings.com/iestp-2023/>

International Conferences

- Participated in the Experimental Biology ‘99’ Conference 17-21 April 1999, Washington DC, USA and presented a paper.
- Participated in the Experimental Biology ‘2001’ Conference 31 March -4 April 2001, Orlando, Florida, USA and presented two papers.
- Participated in the XXXIV International Congress of Physiological Sciences, Christchurch, New Zealand, 26 - 31 August 2001 and presented one paper.
- Participated in the Molecular & Cellular PROTEOMICS, HUPO 2nd Annual & IUBMB XIX world Congress, Montreal, Canada, 8-11 October 2003 and presented two papers.
- Member of the International Scientific committee of the “4th International Conference of the African Association of Physiological Sciences 21-26 November 2004 in Tangier and Tetouan, Morocco” and presented one paper.

- Member of the International Scientific committee of 5th International Congress of the African Association of Physiological Sciences (AAPS), 27th July to 1st August 2008, NAIROBI, KENYA.
- Participated in the 36th International Congress of Physiological Sciences, Kyoto, Japan, 27- 1st August 2009 and presented one paper.
- Participated in the Tenth International Review of Bipolar Disorders (IRBD) 2010, 12 – 14 May 2010, Novotel Budapest Congress & World Trade Center, Budapest, Hungary and presented one paper.
- Participated in the RIPECA's 1st Jordanian National Workshop (NWS) of the Capacity Building Phase 12 – 13 December 2010, Amman, Jordan and deliver lectures.
- Participated in Oxygen Radicals Conference, Ventura Beach Marriott Ventura, California, USA. February 5-10, 2012 and presented one paper.
- Participated in IUPS Physiology Teaching Conference and Workshop, Arabian Gulf University, Kingdom of Bahrain, 31 March-1 April 2012 and deliver a lecture.
- Attend Presentation Skills Workshop, Hyatt Regency Hotel 22 July 2013, Birmingham, England.
- Participated in the 37th International Congress of Physiological Sciences, Birmingham, England, 21- 26 July 2013 and presented two papers.
- Participated in Protein Transport Across Cell Membranes Conference, Hotel Galvez Galvestone, Texas, USA. March 9-14, 2014 and delivered two paper.
- Participated in Oxygen Radicals Conference, Ventura Beach Marriott Ventura, California, USA. February 7-12, 2016 and presented one paper.
- Participated in Oxygen Radicals Conference, Ventura Beach Marriott Ventura, California, USA. February 4-9, 2018, and presented one paper.
- Attend a workshop entitled “Open Access for Egypt” organized by Springer Nature, STDF, and Egyptian Knowledge Bank on 30 May 2022.
- Keynote speaker, 5th International Symposium on Food and Human Health during August 3th - 4th, 2024 in Wuhan, Hubei, China.

National Conferences:

- International Conference on Photochemistry and Photobiology. Jan. 5-10, 1983. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Participated in the first symposium on Environmental Science organized by Institute of Graduate Studies and Research, Alexandria University. In cooperation with UNESCO Regional office for science and technology for the Arab states and Goethe Institute of Alexandria, 15-17 May, 1990, Alexandria, Egypt.
- Participated in the International Conference on Environment, Health and Sustainable Development, organized by Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt (March 22-25, 1999), and presented two papers.

- Participated in the Annual Meeting of the Egyptian Society of Toxicology, March 22-23, 2001, Alexandria, Egypt.
- Participated in the Second International Conference & Exhibition for Life and Environment, 3-5 April, 2001, Alexandria, Egypt.
- Participated in the International Conference on Biotechnology and Sustainable Development: "Voice of the South and North". At the Bibliotheca Alexandrina Conference Center, Alexandria, Egypt (March 16-20, 2002).
- Participated in 4th International Conference for Food Industries Quality Control. 11-13 June, 2002. Alexandria, Egypt.
- Participated in 5th International Conference for Food Industries Quality Control, 8-10 July, 2003, Alexandria, Egypt.
- The 20th Anniversary Conference of the Egyptian Society of Toxicology, 18-19 February, 2004. Bibliotheca Alexandrina, Alexandria, Egypt.
- Participated in Biovision Alexandria 2004: The new life Science. Ethics, Patents and the Poor. Bibliotheca Alexandrina, 3-6 April, 2004. Alexandria, Egypt.
- Participated in the 8th Arab International Conference on Materials Science "Materials for Energy Applications". 18-20 April 2004, Alexandria, Egypt.
- Attend and present a paper in the 7th National Conference of Biochemistry and Molecular Biology and their Role in Development and Environment March 5-7, 2006, Cairo, Egypt.
- Attend the Conference of "Innovation and Technology transfer to the Egyptian Industry: Exploring the German" Model. Nile Hilton Hotel, Cairo Tuesday 10th of June, 2008.
- Attend the fourth International Scientific Conference of Environmental Risk Assessment in the Middle East, 11-14 November 2008, Safaga- Egypt.
- Participated in Biovision Alexandria 2010: New Life Sciences: Future Prospects. Bibliotheca Alexandrina, 11-15 April, 2010. Alexandria, Egypt.
- Research Industry Day from Lab to Reality. Thursday, 28 July 2011, Bibliotheca Alexandrina.
- Participated in Biovision Alexandria 2012: Bibliotheca Alexandrina, 11-15 April, 2012. Alexandria, Egypt.
- Participated in "The Role of Science, Engineering and Technology in Achieving Sustainable Human Development in the Arab Region" Bibliotheca Alexandrina, 30-31 December 2012, Alexandria, Egypt.
- Participated in Biovision Alexandria 2014: Bibliotheca Alexandrina, April, 2014. Alexandria, Egypt.
- Participated in The International Conference Towards Sustainable Environment, 11-12 August 2014, Alexandria, Egypt, and deliver one paper.
- Attended the 4th International Conference of Advanced Sciences (ICAS4), 7-10/11/2017, Hurgada, Egypt and deliver one paper.

Workshops:

- Postgraduate course on “Scientific computer programming” in (UNARC). Alexandria, Egypt, 1983-1984.
- German language course, at the Faculty of Science, 1985, Alexandria University, Alexandria, Egypt.
- Workshop of “Preparation of the University teacher” Faculty of Education, Alexandria University, Alexandria, Egypt. 17 Sep. - 5 Oct. 1988.
- Workshop of “A course on air pollution” principals, sources, monitoring, Modeling and control 24-28 Dec. 1994, participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Workshop of “A course on air pollution” principals, sources, monitoring, Modeling and control 9-14 Sep, 1995, participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Workshop of “Effects of air pollution on water, soil, plant, animal and man. 16-21 Sep. 1995, participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Participated in a workshop of "Environmental Protection". 16 Feb.- 2 Mar. 1998, Alexandria, Egypt.
- Workshop of “A course on air pollution: sources, monitoring and modeling. 26-29 August 2000. Participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Participated in the 3rd regional workshop on urban and industrial wastewater: Problems and Treatment. In cooperation between Institute of Graduate Studies and Research, Alexandria university and British Council, 24-28 January, 2004, Alexandria, Egypt.
- Attend a workshop on Bases of protein analysis. 25-29 March 2007, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Attend a workshop on Genetic Engineering. 15-19 April 2007, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Attend Presentation Skills Workshop, Hyatt Regency Hotel 22 July 2013, Birmingham, England.

Training Courses and workshops organization:

- Annual Training Course on the effect of environmental pollutants on the biological systems and protection by using antioxidants”. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Annual Training Course on Physiological, Reproductive, Biochemical and Molecular Biology Techniques: Basics and Applications in Environmental Studies. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Annual workshop of “A course on air pollution” principals, sources, monitoring, Modeling and control and participate by lectures. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt. and participate by lectures

- Organize an Intensive Course on Environmental pollutants-hazards, control and protection and participate by lectures 13-15 July 2008, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Industrial pollution control and participate by lectures 3-6 November 2008, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Environmental pollutants-hazards, control and protection and participate by lectures, 26-28 April 2009, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Industrial pollution control and participate by lectures 12-15 July 2009, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Environmental Health Risks and participate by lectures 7- 10 December 2009 and 22-25 March 2010, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.

General Lectures:

- TV interview about Environmental Pollutants and Protection using Antioxidants.
- Deliver a general lecture on Pesticides and Antioxidants, 9 July 2008. Environment friends Society- Sheraton El-Montaza, Alexandria, Egypt
- Deliver a general lecture on Health Hazards of Environmental Pollutants, 22 December 2008. Innovation Center, Alexandria, Egypt.
- Deliver a general lecture on Antioxidants and Environmental Pollutants, 9 April 2009. Bibliotheca Alexandrina, Alexandria, Egypt.
- Deliver a general lecture on Environmental Pollution, 18 May 2013. Power generation Company, Alexandria, Egypt.

Membership:

- 1) Member of the African Association of Physiological Sciences “AAPS” Governing Council.
- 2) Member of the American Physiological Society, USA.
- 3) Member of the Egyptian Society of Toxicology, Cairo, Egypt.
- 4) Member of the Egyptian Society of Biochemistry and Molecular Biology, Cairo, Egypt.
- 5) Member of the Environment Friends Society, Alexandria, Egypt.
- 6) Member of the Egyptian Physiological Society, Cairo, Egypt.
- 7) Member of the Society of Environmental Toxins, Cairo, Egypt.
- 8) Member of the Syndicate of Scientific Professions, Alexandria, Egypt

Teaching Courses:

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- Environmental biochemistry
- Biological Health Hazards

- Ecotoxicology
- Methods of Environmental Measurements
- Health benefits of Ginseng
- Oxidative stress & Antioxidants
- Heavy metal toxicity
- Natural herbs and antioxidants
- Pesticide toxicology
- Hepatotoxic compounds
- Medicinal plants
- Air pollution

Research Interest

- 1- Biochemistry
- 2- Environmental Toxicology
- 3- Antioxidants and Oxidative Stress
- 4- Environmental pollution.
- 5- Nanotechnology

Consultation

- Participated in project of analysis of air constituents in Alexandria National Iron and Steel Company in Dekhaila, Alexandria, Egypt, from January-March 1995.
- Training course (Lectures and Practical) in Health and Environment, for American Students from Ohio University, USA. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt. June- July, 2008.

Outreach Experience

- Participated in the El-Nasr Boys School science and engineering fair as a judge.
- Participated in the El-Nasr Girls College science and engineering fair as a judge.
- Participated in Bibliotheca Alexandrina Science and Engineering fair as a judge.
- Mentoring High school students' scientific projects.
- Peer reviewer.

Thesis discussed outside the Institute of Graduate Studies and Research

Discuss about 50 Ph.D. and MSc Theses in different Universities in Egypt.

Discuss a PhD thesis for a student at Henan University, China.

Supervisions:

Supervised about 100 Ph.D., MSc, and diploma students

List of Publications

Prof. Dr. Fatma M. El-Demerdash

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Alexandria University
Alexandria, Egypt

- 1- Mistry, A., Bhattacharya, A., Mondal, M., Bhattacharjee, S., Bhattacharya, A., Ghosh, S.B., Kabsh, M.A., Alharbi, M.T., Majrashi, M.A.A., Nagshabandi, M.K., Tarabulsi, M.K., **El-Demerdash, F.M.**, Abdel-Daim, M.M., Dhara, B., Uti. D.E. (2026). Calcineurin Inhibitors: Current Role, Toxicity Management, and Future Frontiers in Immunosuppression. *Molecular Neurobiology* 63: 275 <https://doi.org/10.1007/s12035-025-05549-2>
- 2- **Fatma M. El-Demerdash**, Mohamed Y. Fayed, Ehab M.Tousson, Raghda A. El-Sayed (2025). Omega-3 fatty acids modulate acetamiprid and emamectin benzoate-induced testicular toxicity in rats by modulating Nrf2/NFkB pathway and apoptotic signaling. *Scientific Reports*. 5:44055
- 3- Jebur, A.B., Naoom, A.Y., El-Sayed, R.A., **El-Demerdash, F.M.** (2025). Antioxidant Efficiency of Elettaria cardamomum Essential Oil Against Benzo[a]Pyrene-Induced Testicular Damage via Oxidative Stress Suppression and Modulation of Gene Expression in Rats. *Environmental Toxicology*. doi: 10.1002/tox.24574. Epub ahead of print. PMID: 41070933.
- 4- **Fatma M. El-Demerdash**, Reda A. Soker, Hoda M. Nasr, Raghda A. El-Sayed, Wenyi Kang. (2025). Hepatoprotection conferred by curcumin against emamectin benzoate-induced oxidative stress, biochemical, molecular, and histological disturbances in rats. *Toxicol* 267: 108567.
- 5- Machado, M. M., **El-Demerdash, F. M.**, Boye, A., Zhu, Y., Sun, X., Yang, X., eds. (2025). E-Book. Toxicity mechanisms, exposure, toxicokinetic and risk assessment aspects of metals, toxic for animals and humans, volume III. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-6926-9.
- 6- Boye, A., Zhu, Y., Li, X., ... **El Demerdash, F.M.**, Yang, X. **Editorial:** Toxicity mechanisms, exposure, toxicokinetic and risk assessment aspects of metals, toxic for animals and humans, volume III. *Frontiers in Pharmacology* , 2025, 16, 1690145
- 7- **Fatma Mohamady El-Demerdash**, Laith Taha Mohammed, Tarek Mostafa Mohamed. (2025). Modulatory effect of *Eruca vesicaria* seeds essential oil on acetamiprid nephrotoxicity via oxidative stress inhibition and regulation of Cox-2, TNF- α , and PPAR- α pathways. *Tissue and Cell*. 95: 102905
- 8- **Fatma M. El-Demerdash, Ansam B. Al Mhanna**, Raghda A. El-Sayed, Tarek M. Mohamed, Maha M. Salem. (2025). Use of *Nigella sativa* silver nanocomposite as an

- alternative therapy against thioacetamide nephrotoxicity. *Genes & Nutrition*. 20(1):6. doi: 10.1186/s12263-025-00766-9. PMID: 40087564; PMCID: PMC11909921.
- 9- Ali Y. Naom, Zina A. Jawad, Ameena N. Seewan, Abbas K. Abbas, Raghda A. El-Sayed, **Fatma M. El-Demerdash**. (2025). Phytochemical Composition, Health Benefits, and Potential Food Applications of Ginger (*Zingiber officinale*). *Food & Medicine Homology*. Accepted.
 - 10- Ali B. Jebur, Raghda A. El-Sayed, **Fatma M. El-Demerdash** (2025). Grape seeds: Nutritional value, health advantages, and industrial applications. *Food & Medicine Homology*. <https://doi.org/10.26599/FMH.2026.9420100>.
 - 11- Raghda A. El-Sayed, Ali B. Jebur, Mohamed M. Abdel-Daim, **Fatma M. El-Demerdash** (2024). Chemical compositions and health-promoting effects of *Cichorium intybus* L. (chicory): a narrative review. *Food & Medicine Homology*, 2024, 1: 9420012. <https://doi.org/10.26599/FMH.2024.9420012>
 - 12- **Fatma M. El-Demerdash**, Ali H. Minjal, Raghda A. El-Sayed, Hoda H. Baghdadi (2024). Hepatoprotective effect of ethanolic pomegranate peel extract against levofloxacin via suppression of oxidative stress, proinflammation, and apoptosis in male rats. *Journal of Medicinal Food* 27(9): 866-878. DOI: 10.1089/jmf.2023.0215
 - 13- **Fatma M. El-Demerdash**, Ali Y. Naom, Nora F. Ghanem, Mohamed M. Abdel-Daim, Wenyi Kang. (2024). Kiwifruit (*Actinidia deliciosa*) aqueous extract improves hyperglycemia, testicular inflammation, apoptosis, and tissue structure induced by Streptozotocin via oxidative stress inhibition. *Tissue and Cell* 88: 102426.
 - 14- Samy E. Elshaer, Gamal M. Hamad, Sherien E. Sobhy, Amira M. Galal Darwish, Hoda H. Baghdadi, Hebatallah H. Abo Nahas, **Fatma M. El-Demerdash**, Sanaa S. A. Kabeil, Abdulmalik S. Altamimi, Ebtesam Al-Olayan, Maha Alsunbul, Omaima Kamel Docmac, Mariusz Jaremko, Elsayed E. Hafez and Essa M. Saied. (2024). Supplementation of *Saussurea costus* root alleviates sodium nitrite-induced hepatorenal toxicity by modulating metabolic profile, inflammation, and apoptosis. *Front. Pharmacol.* 15:1378249. doi: 10.3389/fphar.2024.1378249
 - 15- El-Demerdash FM, Ahmed MM, El-Sayed RA, Mohamed TM, Gerges MN. (2024) Nephroprotective effects of silymarin and its fabricated nanoparticles against aluminum-induced oxidative stress, hyperlipidemia, and genotoxicity. *Environ Toxicol.* 39(6):3746-3759. doi: 10.1002/tox.24223.
 - 16- **El-Demerdash, F.M.**, Karhib, M.M., Ghanem, N.F., Mohamed M. Abdel-Daim, M.M., El-Sayed, R.A. (2024). *Echinacea purpurea* root extract mitigates hepatotoxicity, genotoxicity, and ultrastructural changes induced by hexavalent chromium via oxidative stress suppression. *Environmental Science and Pollution Research* <https://doi.org/10.1007/s11356-024-32763-7>
 - 17- Rana, T., Zaman, M., Khan, M.A., Khan, A.Q., Jamshaid, M., Nouh, N.A.T., **El-Demerdash, F.M.**, Kamel, M., Abdel-Daim, M.M., Albadrani, G.M., Javaid, S., Naeem, Z. (2024). Antiacne Gel Containing Aloe vera and Clindamycin Phosphate: Design, Characterization, and Optimization Using Response Surface Methodology. *International Journal of Polymer Science* Volume 2024, Article ID 3353141, 17 pages <https://doi.org/10.1155/2024/3353141>
 - 18- Ahmed Rahib, Mustafa M. Karhib, Hoda M. Nasr, Raghda A. El-Sayed, Mohamed M. Abdel-Daim, Ali B. Jebur, **Fatma M. El-Demerdash** (2024) Citrus

reticulata peel extract mitigates oxidative stress and liver injury induced by abamectin in rats. *Tissue and Cell* 87: 102321

- 19- **Fatma M. El-Demerdash**, Ansam B. Al Mhanna, Raghda A. El-Sayed, Tarek M. Mohamed, Maha M. Salem (2024). Hepatoprotective impact of *Nigella sativa* silver nanocomposite against genotoxicity, oxidative stress, and inflammation induced by thioacetamide. *Tissue and Cell* 87: 102332
- 20- Ahmed E. Altyar, Osama A. Kensara, Ahmed E. Noreldin, Ghadeer M. Albadrani, **Fatma M. El-Demerdash**, Amany A. Sayed, Marina Piscopo, Zuhair M. Mohammedsaleh, Muath Q. Al-Ghadi, Nehmat Ghaboura, Mohamed M. Abdel-Daim (2024). *Spirulina platensis* ameliorates hepatic oxidative stress and DNA damage induced by aflatoxin B1 in rats. *Toxicon* 237 (2024) 107553
- 21- Muneeba Akhtar, Muhammad Zaman, Ahsan Zamir Siddiqi, Hasan Ali, Rahima Khan, Muhammad Nadeem Alvi, Muhammad Hammad Butt, **Fatma M El-Demerdash**, Dalal nasser binjawhar, Amany A. Sayed, Ahmed E. Altyar, Mohamed M. Abdel-Daim. (2024). Response Surface Methodology (RSM) approach to formulate and optimize the bilayer combination tablet of Tamsulosin and Finasteride. *Saudi Pharmaceutical Journal* 32: 101957.
- 22- Abhijeet Puri, Popat Mohite, Swastika Maitra, Vetriselvan Subramaniyan, Vinoth Kumarasamy, Daniel E. Uti, Amany A. Sayed, **Fatma M El-Demerdash**, Mohammad Algahtani, Attalla F. El-kott, Ali A. Shati, Mai Albaik, Mohamed M. Abdel-Daim, Item J. Atangwho. 2024. From Nature to Nanotechnology: The Interplay of Traditional Medicine, Green Chemistry, and Biogenic Metallic Phytonanoparticles in Modern Healthcare Innovation and Sustainability. *Biomedicine and Pharmacotherapy* 170 (2024) 116083.
- 23- Juhita Dhar, Aishee Hazra, Riddhisha Patra, Vetriselvan Subramaniyan, Vetriselvan Subramaniyan, Vinoth Kumarasamy, Arup Kumar Mitra, Amany Sayed, Lotfi Aleya, **Fatma M. El-Demerdash**, Mikhlid Almutairi, Shopnil Akash, Mohamed M. Abdel-Daim, Bikram Dhara. (2024). Unveiling *Curvularia tuberculata* Induced Leaf Anomalies in *Rhododendron ferrugineum*: Implications for Cultural-Ecological Conservation and Harnessing Microbial Potential for Socio-Economic Advancement. *Frontiers in Microbiology: Frontiers in Microbiology* 14 (2024): 1280120.
- 24- Ali Jebur, Raghda El-Sayed, **Fatma El-Demerdash**. (2023). Lycopene modulates testicular injury oxidative stress and caspases upregulation induced by fenvalerate in male rats. (2023). *Bionatura* <http://dx.doi.org/10.21931/RB/2023.08.04.76>
- 25- Ahmed E. Altyar, Osama A. Kensara, Amany A. Sayed, Lotf Aleya, Mikhlid H. Almutairi, Mohamed Sayed Zaazouee, Alaa Ahmed Elshanbary, **Fatma M. El-Demerdash**, Mohamed M. Abdel-Daim. (2023). Acute aflatoxin B1-induced hepatic and cardiac oxidative damage in rats: Ameliorative effects of morin. *Heliyon* 9 (2023) e21837
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