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ESRAA M. MOSALAM

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CURRENT POSITION

- Lecturer of Biochemistry, Department of Biochemistry, Faculty of Pharmacy, Menoufia University, Egypt (October 2020- present).
- Vice director of Quality Assurance Unit (QAU) of Faculty of Pharmacy, Menoufia University (July 2021 - present)



PREVIOUS POSITIONS

- Assistant Lecturer of Biochemistry, Department of Biochemistry, Faculty of Pharmacy, Menoufia University, Egypt (July 2018- October 2020).
- Instructor of Biochemistry, Department of Biochemistry, Faculty of Pharmacy, Menoufia University, Egypt (October 2016-July 2018).
- Instructor of Biochemistry, Department of Biochemistry, Faculty of Pharmacy, Tanta University (September 2013- October 2016).



CURRENT WORK ADDRESSES

Faculty of Pharmacy, Menoufia University, Gamal Abdelnasser St., El-Menoufia, Egypt.



EDUCATION

PhD in Pharmaceutical Sciences (Biochemistry)

2018-2020

Faculty of Pharmacy, Suez Canal University, Egypt

PhD thesis entitled "Enhancing the Chemotherapeutic Effect of Cisplatin with Thymoquinone *via* Modulation of Canonical and Non-Canonical Notch Signaling Pathway"

M.Sc. in Pharmaceutical Sciences (Biochemistry)

2015-2018

Faculty of Pharmacy, Tanta University

Master thesis entitled "Study of the cytotoxicity of doxorubicin and thymoquinone- loaded nanoparticles in experimentally-induced breast cancer in mice"

Pre-Master courses in Biochemistry

2013 –2014

Faculty of Pharmacy, Tanta University

B.Sc., Pharmaceutical Science | general grade Excellent (Honor, 8th over about 1200 students)

2008 –2013

Faculty of Pharmacy, Tanta University (El-Khateeb et al., 2023)



PUBLICATIONS

El-Khateeb, E., El-Berri, E. I., Mosalam, E. M., Nooh, M. Z., Abdelsattar, S., Alghamdi, A. M., . . . Abdallah, M. S. Evaluating the safety and efficacy of the leukotriene receptor antagonist montelukast as adjuvant therapy in obese patients with type 2 diabetes mellitus: A double-blind, randomized, placebo-controlled trial. *Frontiers in Pharmacology*, 2023. (IF= 5.988).

Salem, M. A., Mansour, H. E. A., Mosalam, E. M., El-Shiekh, R. A., Ezzat, S. M., & Zayed, A. . Valorization of by-products Derived from Onions and Potato: Extraction Optimization, Metabolic Profile, Outstanding Bioactivities, and Industrial Applications. *Waste and Biomass Valorization*, 2023. (IF= 3.449).

Mosalam, E.M., Elberri, A.I., Sallam, A.S. et al. Chronotherapeutic neuroprotective effect of verapamil against lipopolysaccharide-induced neuroinflammation in mice through modulation of calcium-dependent genes. *Molecular Medicine*, 2022. (IF= 6.376).

Abdallah, MS, Mosalam, EM, Hassan, A, et al. Pentoxifylline as an adjunctive in treatment of negative symptoms in chronic schizophrenia: A double-blind, randomized, placebo-controlled trial. *CNS Neuroscience & Therapeutics*, 2022. (IF= 7.035).

Eltamany EE, Mosalam EM, Mehanna ET, Awad BM, Mosaad SM, Abdel-Kader MS, Ibrahim AK, Badr JM, Goda MS. Potential Gonado-Protective Effect of Cichorium endivia and Its Major Phenolic Acids against Methotrexate-Induced Testicular Injury in Mice. *Biomedicines*, 2022. (IF= 4.757).

Elshafie AH, Elsayah HK, Hammad M, Sweed EM, Seif AS, Abdel Ghaffar MM, Goda FM, Mosalam EM, Abdallah MS. Ivermectin role in COVID-19 treatment (IRICT): single-center, adaptive, randomized, double-blind, placebo-controlled, clinical trial. *Expert Review of Anti-infective Therapy*, 2022. (IF= 5.854).

Gad D, Abo Mansour HE, Saad-Allah KM, Abdallah MS, Ibrahim Elberri A, Mosalam EM. Biostimulants improve the hepatoprotection of Ammi visnaga seed yield extract against carbon tetrachloride induced acute hepatitis in mice through modulation of MAPK. *Saudi Journal of Biological Sciences*, 2022. (IF= 4.052).

Abdallah, M.S., Ramadan A.N., Reda, H.E., Mansour, N.O., Elsokary M.A., Elsayah H.K., Abdelsattar S.Z., Abo Mansour H.E., and Mosalam E.M. Double-blind, Randomized, Placebo-Controlled Pilot Study of the Phosphodiesterase-3 Inhibitor Cilostazol as an Adjunctive to Antidepressants in Patients with Major Depressive Disorder. *CNS Neuroscience & Therapeutics*, 2021. (IF= 7.035).

Abdallah, M.S., S.J. Alarfaj, D.S. Saif, M.E. El-Naggar, M.A. Elsokary, H.K. Elsayah, S. Abdelsattar Zaki, E.A. Wahsh, H.E. Abo Mansour, and E.M. Mosalam. The AMPK modulator metformin as adjunct to methotrexate in patients with rheumatoid arthritis: A proof-of-concept, randomized, double-blind, placebo-controlled trial. *International Immunopharmacology*, 2021. (IF= 5.714).

Mosalam, E.M., Zidan AA, Mehanna ET, Mesbah NM, Abo-Elmatty DM. A:Role of Notch Signaling Pathway in Breast Cancer and Chemo-resistance. Records of Pharmaceutical and Biomedical Sciences, 2020.

Mosalam EM, Zidan AA, Mehanna ET, Mesbah NM, Abo-Elmatty DM. Thymoquinone and pentoxifylline enhance the chemotherapeutic effect of cisplatin by targeting Notch signaling pathway in mice. Life Sciences, 2020 (IF= 6.780).

Zidan AA, El-Ashmawy NE, Khedr EG, Salem ML, Ebeid EM, *Mosalam EM. Loading of doxorubicin and thymoquinone with F2 gel nanofibers improves the antitumor activity and ameliorates doxorubicin-associated nephrotoxicity. Life Sciences, 2018 (IF= 6.780).*

El-Ashmawy NE, Khedr EG, Ebeid EM, Salem ML, Zidan AA, *Mosalam EM. Enhanced anticancer effect and reduced toxicity of doxorubicin in combination with thymoquinone released from poly-N-acetyl glucosamine nanomatrix in mice bearing solid Ehrlich carcinoma. European Journal of Pharmaceutical Sciences, 2017 (IF= 5.112).*



GRANTS/ PROJECTS

Principal Investigator (PI) of a two-years running project entitled “Potential Protective Effect of Verapamil-Loaded Quantum Dots against Lipopolysaccharides-Induced Learning and Memory Impairment; *In-vitro* and *In-vivo* Alzheimer Like Models, # 45960” funded by The Science, Technology & Innovation Funding Authority (STDF) by 2,500,000 EGP.



SCIENTIFIC LINKS

Google Scholar

<https://scholar.google.com/citations?user=ntkfoIEAAAJ>

ORCID

<https://orcid.org/0000-0003-4630-4125>

Web of Science

[Mosalam, Esraa - Web of Science Core Collection](#)

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=57195624357>



EXPERIENCE

Teaching Experience | Lectures

- Biochemistry
- Clinical Biochemistry
- Cell Biology
- Medical Terminology

Teaching Experience | Talks for Post-graduate students at Faculty of Pharmacy, Tanta University, Egypt

- Planning and Marketing of Medicine
- Bioequivalence Study
- Advanced Clinical Biochemistry
- Forensic Chemistry and Bioanalysis
- Physiology and Hematology
- Special Seminar under the title of (Food Additive)

Teaching Experience | Tutorials

- **Biochemistry** for undergraduate students (second level) at Faculty of Pharmacy, Tanta and Menoufia University.
- **Clinical Biochemistry** for undergraduate students (third level) at Faculty of Pharmacy, Tanta University.
- **Biophysics** for undergraduate students (first level) at Faculty of Pharmacy, Tanta University.
- **Biology** for undergraduate students (first level) at Faculty of Pharmacy, Menoufia University.

Teaching Experience | Laboratory

- **Biology** for undergraduate students (first level) at Faculty of Pharmacy, Menoufia University.
- **Clinical Biochemistry** for undergraduate students (third level) at Faculty of Pharmacy, Tanta University.
- **Biochemistry** for undergraduate students (third level) at Faculty of Pharmacy, Tanta University.
- **Biophysics** for undergraduate students (first level) at Faculty of Pharmacy, Tanta University.
- **Organic Chemistry** for undergraduate students (first level) at Faculty of Pharmacy, Menoufia University.
- **Pharmacognosy** for undergraduate students (first level) at Faculty of Pharmacy, Menoufia University.



RESEARCH SKILLS

- Spectrophotometer techniques.
- Manual and automated RNA and DNA extraction.
- qRT-PCR.
- Cell culture techniques.
- ELISA techniques.
- Cytotoxicity assays.
- Handling of laboratory animals.
- In vitro biochemical assays.
- Interpretation of the results of flow cytometric analyses.



COMPUTER SKILLS

- Experienced user of Adobe Illustrator.
- Experienced user of Graphpad Prism.
- Experienced user of Image J.
- Experienced user of Cytoscape.
- Experienced user of Primer 3 plus.
- Experienced user of Primer Blast.
- Experienced user of SPSS.
- Experienced user of EndNote.
- Experienced user of Microsoft Office.



TRAINING COURSES

- **Fundamental Digital Transformation courses** at training, information, and communication technology center, Suez Canal University, Ismailia, Egypt, 2020.
- **Use of global databases** at International Faculty and Leadership Development Center, Menoufia University, Menoufia, Egypt, 2020.
- **Examinations and student assessment** at International Faculty and Leadership Development Center, Menoufia University, Menoufia, Egypt, 2020.
- **Ethics of scientific research** at International Faculty and Leadership Development Center, Menoufia University, Menoufia, Egypt, 2020.
- **Skills of using mind maps** at International Faculty and Leadership Development Center, Menoufia University, Menoufia, Egypt, 2020.
- **People management** at International Faculty and Leadership Development Center, Menoufia University, Menoufia, Egypt, 2020.
- **Thinking skills** at International Faculty and Leadership Development Center, Menoufia University, Menoufia, Egypt, 2019.
- **Understanding IELTS** at FUTUTURE LEARN (online course), 2017.
- **Use of Technology in Teaching** at the International Center for Faculty and Leadership Development, Tanta University, Tanta, Egypt, 2016.
- **Credit Hour System** at the International Center for Faculty and Leadership Development, Tanta University, Tanta, Egypt, 2016.
- **Quality Standards in Teaching** at the International Center for Faculty and Leadership Development, Tanta University, Tanta, Egypt, 2016.
- **Strategic Planning** at the International Center for Faculty and Leadership Development, Tanta University, Tanta, Egypt, 2016.
- **Conference Organization** at the International Center for Faculty and Leadership Development, Tanta University, Tanta, Egypt, 2016.
- **How to Compete for a Research Fund** at the International Center for Faculty and Leadership Development, Tanta University, Tanta, Egypt, 2015.
- **ColWri2.2x: English Grammar and Essay Writing** (online learning of University of California, Berkeley through edX with HONOR CODE CERTIFICATE, 2015.
- **Computer science** at the Central Library, Tanta University, Tanta, Egypt, 2014.
- **Ethics of scientific research and writing** at Faculty of Pharmacy, Tanta University, Tanta, Egypt, 2014.

- **Human resources development** (Power of Thinking) at Charles Hamilton Academy, Cairo, Egypt, 2014.
- **Industrial Pharmacy Practice** at Sigma for Pharmaceutical Industries, Qwesna, Egypt, 2012.
- **Community pharmacy practice**, Menoufia, Egypt, 2012.



SEMINARS

- **Technical seminar: Clinical Application of MALDI-TOF in Proteomics & Tissue Imaging** at Centre of Excellence in Cancer Research (CECR), Tanta University Educational Hospital, Tanta, Egypt, 2015.
- **Stem cells: Gate for internationalization** at faculty of Medicine, Tanta University Tanta, Egypt, 2014.



CONFERENCES

- **December 2019: The second conference of Faculty of Pharmacy, Suez Canal University (Medicines used in internal medicine)**, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.
- **August 2018: The first international pharmaceutical sciences conference (Drug Development: from benchside to bedside)**, Faculty of Pharmacy, Menoufia University, Menoufia, Egypt.
- **July 2014: 9th Conference for Liver and Digestive Tract Diseases**, Faculty of Medicine, Tanta University, Tanta, Egypt.
- **March 2014: 29th Annual Congress First International (Multidisciplinary Medicine Era)**, faculty of Medicine, Tanta University, Tanta, Egypt.



WORKSHOPS

- **Analysis of RNA-Seq data**, 11th international GastroIntestinal, Liver and Uro-Oncology Conference, Faculty of Medicine, Ain Shams Research Institute, July 2022
- **Online Bioinformatics tools for bulk NGS and single-cell tumor data**, 11th international GastroIntestinal, Liver and Uro-Oncology Conference, Faculty of Medicine, Ain Shams Research Institute, July 2022.
- **Online web-shop 2021: The Book Publishing Process**, Elsevier Publishing Campus.
- **Online web-shop 2017: 5 diseases ailing the research**, Elsevier Publishing Campus.
- **2016: PCR and its application in Biomedical science fields**, Faculty of Pharmacy, Tanta University, Tanta, Egypt.
- **2015: Nanostructure Materials & Applications**, Medical Technology Centre for Research and Services, Medical Research Institute, Alexandria University, Alexandria, Egypt.
- **2014: Google Scholar**, Faculty of Pharmacy, Tanta University Tanta, Egypt.
- **2014: Technical and Practical Applications of Molecular Biology and Radioisotopes**, the Medical Field at Middle Eastern Regional Radioisotopes Centre for the Arabs Countries (MERRCAC), Cairo, Egypt.



REVIEWING

- “Involvement of the orexinergic system in cancer: antitumor strategies and future perspectives” for **Applied Sciences-MDPI**.
- “Evaluation and comparison of dermo-cosmetic activities of three oak species by targeting anti-oxidant metabolites and skin enzyme inhibitors” for **Metabolites-MDPI**.
- “Exploring the mechanism of Jianpi Huatan Recipe in protecting Hepatocellular carcinoma based on network pharmacology” for **Journal of Ethnopharmacology**.
- “Arctigenin improves neuropathy via ameliorating apoptosis and modulating autophagy in streptozotocin-induced diabetic mice” for **CNS Neuroscience & Therapeutics**.
- “Vagus nerve stimulation exerts cardioprotection against doxorubicin-induced cardiotoxicity through inhibition of programmed cell death pathways” for **Cellular and Molecular Life Sciences**
- “Human Lung Cancer Targeted Cytotoxicity, Mitochondrial Membrane Potential and Nuclear Condensation effects by Nepeta Paulsenii, A Perennial Herb” for **Saudi Journal of Biological Sciences**.
- “Aspirin sensitivity of PIK3CA-mutated Colorectal Cancer: potential mechanisms revisited” for **Cellular and Molecular Life Sciences**.
- “In vitro inhibition of cancer angiogenesis and migration by a nanobody that targets the orphan receptor Tie1” for **Cellular and Molecular Life Sciences**.
- “Immunological link in type 2 Diabetes through Electro Photonic Imaging” of reference number” for **International Journal of Metabolic Syndromes**.
- “Reversal of doxorubicin-induced cardiotoxicity by phytotherapy: A review” for **Pharmacopuncture**.
- “Immunomodulatory and anti-inflammatory effects of thymoquinone” for **Cardiovascular & Hematological Disorders-Drug Targets**.
- “Pharmacological study and overcome the Cardiotoxicity associated with anticancer drug Doxorubicin: A review” for **Primary Health care and General practice**.
- “A case report of 99mTc-labelled glucosamine [99mTc-ECDG] in the evaluation of myositis” for **Jacobs Journal of Clinical Case Reports**.
- “Evaluation of the Novel herbal formulation for its cardioprotective action against streptozotocin induced Diabetes in Rats” for **OMICS Publishing Group Chemistry Journals**.
- “Ameliorative potential of Euphorbia hirta (Linn.) extract against lipopolysaccharide induced-neuroinflammation and oxidative damage in rats” for **OMICS Publishing Group Chemistry Journals**.
- “Comparative study of adjuvant chemotherapeutic efficacy of docetaxel plus cyclophosphamide and doxorubicin plus cyclophosphamide in female breast cancer” for **Cancer Management and Research**.



EDITORIAN BOARD MEMBERSHIP

- EBM at International Journal of Drug Research and Technology.



MEMBERSHIP AND ORGANIZATIONAL ACTIVITIES

- Member in The Egyptian Pharmacists Syndicate.
- Member in Egyptian Association for Cancer Research (EACR).
- Active member in Quality Assurance Unit (QAU) of Faculty of Pharmacy, Tanta University (2013 – 2016).