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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=ntkfoIEAAAAJ>

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).