

NORA MOHAMED AHMED ELKENAWY



PERSONAL DETAILS

- ◆ Email address: nelkenawy@gmail.com
- ◆ Google Scholar account:
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- ◆ Linked in account:
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EDUCATION

- ◆ Associate professor of Microbiology and Immunology (2024).
- ◆ PhD in Microbiology and Immunology from the Faculty of Pharmacy Cairo University with the title of thesis "Production of Prodigiosin from *Serratia marcescens* and Investigation of Potential Applications" (2017).
- ◆ Fulfilled the Master's Degree in Microbiology and Immunology from the Faculty of Pharmacy Cairo University with the title of thesis "Studies on Possible Activation of Microbial Laccase Production Using Gamma Irradiation" (2014).
- ◆ Graduated from the Faculty of Pharmacy Cairo University (2008).
- ◆ Graduated from Mrs. Woodley Language School (2003).

WORK EXPERIENCE

- ◆ Associate professor of Microbiology and Immunology in the Faculty of Pharmacy at Egyptian Chinese University (ECU) (October 2023-till now).
- ◆ Associate professor of Microbiology and Immunology in Microbiology laboratory in the Drug Radiation Research Department, National Centre of Radiation Research Technology (NCRRT), Egyptian Atomic Energy Authority (2024).
- ◆ Lecturer in the Microbiology laboratory in the Drug Radiation Research Department, National Centre of Radiation Research Technology (NCRRT), Egyptian Atomic Energy Authority (2018- till now).
- ◆ Part time lecturer in the Faculty of Pharmacy at Egyptian Chinese University (ECU) (2022-2023).
- ◆ Lecturer of Microbiology in the Faculty of Pharmacy at the Modern University for Technology & Information (MTI) (2018-2019).
- ◆ Assistant lecturer in the Microbiology laboratory in the Drug Radiation Research Department, National Centre of Radiation Research Technology (NCRRT), Egyptian Atomic Energy Authority (June 2015- 2017).
- ◆ A researcher in the Microbiology laboratory in the Drug Radiation Research Department, National Centre of Radiation Research Technology (NCRRT),

Egyptian Atomic Energy Authority (February 2010- June 2015).

MEMBERSHIPS

- ◆ Cofounding member of “Women in Nuclear Egypt” society subdivided from “Women in Nuclear” “WIN” of the International Atomic Energy Agency (IAEA) <http://www.win-global.org/>

PUBLICATIONS

- ◆ “Comparison of autoclaving and γ -radiation impact on four spices aroma profiles and microbial load using HS-SPME GC–MS and chemometric tools” Mostafa H Baky, Nora M Elkenawy, Heba AS El-Nashar, Bishoy Abib, Mohamed A Farag Scientific Reports Volume14 Issue 1 (2024).
- ◆ “In-vitro Antimicrobial Study of non/irradiated Ylang-ylang Essential Oil against Multi Drug Resistant Pathogens with Reference to Microscopic Morphological Alterations” Nora Mohamed Elkenawy, Mahmoud Abdel Wahab Soliman, Reham Rashad El-behery. Indian Journal of Microbiology
- ◆ “Ubiquinol preserves immune cells in gamma-irradiated rats: Role of autophagy and apoptosis in splenic tissue” Nora Mohamed Elkenawy, Heba Ramadan Ghaiad, Sherehan Mohamed Ibrahim, Ramy Karam Aziz, Eman Rashad, Walaa Ahmed Eraqi. International Immunopharmacology 123, 110647 (2023). <https://www.sciencedirect.com/science/article/abs/pii/S1567576923009724>
- ◆ “Sequential electron beam and bioflocculation for treatment of textile nanodyes” Nora M. Elkenawy & Ola M. Gomaa RSC advances 13 (31), 21558-21569 (2023). <https://pubs.rsc.org/en/content/articlehtml/2023/ra/d3ra03895e>
- ◆ “In-vitro Antimicrobial Study of non/irradiated Ylang-ylang Essential Oil against Multi Drug Resistant Pathogens with Reference to Microscopic Morphological Alterations” Nora Mohamed Elkenawy, Mahmoud Abdel Wahab Soliman, Reham Rashad El-behery Indian Journal of Microbiology ISSN pending
- ◆ "Valorization of Frying Oil Waste for Biodetergent Production Using *Serratia marcescens* N2 and Gamma Irradiation Assisted Biorecovery” Nora M. Elkenawy & Ola M. Gomaa Microbial Cell Factories volume 21, Article number: 151 (2022). <https://microbialcellfactories.biomedcentral.com/articles/10.1186/s12934-022-01877-3>
- ◆ “Development of Gamma Irradiated SSD-Embedded Hydrogel Dyed with Prodigiosin as a Smart Wound Dressing: Evaluation in A MDR Infected Burn Rat Model” Nora M. Elkenawy, Heba M. Karam, Dina S. Aboul-Magd International Journal of Biological Macromolecules 211, 170-182 (2022).

<https://www.sciencedirect.com/science/article/abs/pii/S0141813022010339>

- ◆ "Draft genome sequence of a prodigiosin-hyperproducing *Serratia marcescens* strain isolated from Cairo, Egypt "Nora M. Elkenawy, Noha H. Youssef, Ramy K. Aziz, Magdy A. Amin, and Aymen S. Yassin G3 11 (10), jkab284 (2021).

<https://academic.oup.com/g3journal/advance-article/doi/10.1093/g3journal/jkab284/6343459>

- ◆ "Green synthesis of novel antifungal 1,2,4-triazoles effective against γ -irradiated *Candida parapsilosis*" Reham M. El-Hazek, Nora M. Elkenawy, Nashwa H. Zaher, Marwa G. El-Gazzar Archiv der Pharmazie 355 (1), 2100287(2022).

<https://onlinelibrary.wiley.com/doi/10.1002/ardp.202100287>

- ◆ "Gamma radiation-assisted fabrication of bioactive-coated thyme nanoemulsion: A novel approach to improve stability, antimicrobial and antibiofilm efficacy" Noha M Deghiedy, Nora M Elkenawy, Hassan A Abd El-Rehim Journal of Food Engineering 304, 110600 (2021)

<https://doi.org/10.1016/j.jfoodeng.2021.110600>

<https://www.sciencedirect.com/science/article/abs/pii/S0260877421001254>

- ◆ "Optimization of prodigiosin production by *Serratia marcescens* using crude glycerol and enhancing production using gamma radiation" Nora M. Elkenawy, Aymen S. Yassin, Hala N. Elhifnawy, Magdy A. Amin

<https://dx.doi.org/10.1016/j.btre.2017.04.001>

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC5412256>

- ◆ "Laccase Production by *Pleurotus ostreatus* and its Application in Synthesis of Gold Nanoparticles Using Gamma Radiation" Ahmed I. El-Batal, Nora M. ElKenawy, Aymen S. Yassin, Magdy A. Amin

<http://dx.doi.org/10.1016/j.btre.2014.11.001>

<https://scholar.google.com/eg/citations?user=VvIziWsAAAAJ&hl=en>

POSTER PRESENTATIONS

- ◆ Poster presentation and abstract titled " Bioremediation of cesium contaminated water using *Penicillium chrysogenum* " 6th International Conference on New Horizons in Basic and Applied Sciences - Hurghada (ICNHBAS-2023).
- ◆ Poster presentation and abstract titled "Gastroprotective and Gut Microbiome-Modulating Effects of Ubiquinol in a Rat Model for Gamma Radiation-Induced Enteropathy" Walaa A. Eraqi, Walaa A. El-Sabbagh, Ramy K. Aziz, Mostafa S. Elshahed, Noha H. Youssef, Nora M. Elkenawy 4th Egyptian International Conference on Microbiota & Microbiome in Health & Disease
- ◆ Poster presentation and abstract titled "Prodigiosin production from *Serratia marcescens* using crude glycerol obtained from local biodiesel production facility" in

the 7th International Scientific Conference of Faculty of Pharmacy, Cairo University "Translational Research in Pharmacy: From Bench to Market" (April, 2016).

- ◆ Poster presentation and abstract titled "Production, Characterization and Industrial Application of Laccase Enzyme from *Pleurotus ostreatus*" in the 4th International Scientific Conference of Faculty of Pharmacy, Cairo University "Pharmacy Education and Community Expectations" (April, 2013).

TEACHING COURSES

- ◆ Medical Microbiology (PM704) Faculty of Pharmacy in the Egyptian Chinese University(ECU).
- ◆ Pharmaceutical Microbiology (PM502) Faculty of Pharmacy in the Egyptian Chinese University(ECU).
- ◆ Virology (PM603) Faculty of Pharmacy in the Egyptian Chinese University(ECU).
- ◆ Biotechnology Year 4 Faculty of Pharmacy in the Modern University for Technology & Information.
- ◆ Applied Genetic Engineering Year 5 Faculty of Pharmacy in the Modern University for Technology & Information

WORKSHOPS AND CONFERENCES

- ◆ December 2-23 2022: Third International Training Course on Industrial Synthetic Biotechnology (ITC-ISB) organised by Tianjin Institute of Industrial Biotechnology.
- ◆ December 2019: Advanced Metagenomics Workshop, Faculty of Pharmacy, Cairo University
- ◆ September 2019: Microbial Electron Transfer for waste water treatment: innovative approaches and applications" conference in Hilton Hotel and Towers, Heliopolis Cairo-Egypt
- ◆ March 2018: BUE International Nanotechnology Summit 2018.
- ◆ February 2018: Managing Innovation in Academia DAAD Egypt.
- ◆ February 2017: Scientific conference "Ionizing Radiation and Cancer in Dermatology".
- ◆ May 2016: Workshop by the title "Proposal Writing" in the researcher development unit (RDU) in the NCRRT.
- ◆ April 2016: The 7th International Scientific Conference of Faculty of Pharmacy, Cairo University "Translational Research in Pharmacy: From Bench to Market".
- ◆ April 2013: The 4th International Scientific Conference of Faculty of Pharmacy, Cairo University "Pharmacy Education and Community Expectations".

- ◆ November 2010: Workshop by the title “New Trends in Biotechnology” that was held in the Faculty of Pharmacy Cairo University.

COURSES AND SKILLS

- ◆ May 2017: Statistics Basics (level I) course - ESDAN Biostatistics.
- ◆ March 2017: International Computer Drivers Licence (ICDL).
- ◆ June 2013: Protection from Ionizing Radiations Course - National Centre of Radiation Research Technology (NCRRT).

ACTIVITY

- ◆ December 2022: Scientific lecture entitled “Climate Change: Microbes to the Rescue?” in the Biotechnology Division Scientific Day.

CURRENT RESEARCH

- ◆ Working on the whole genome sequencing of *Serratia marcescens* N2.

FUTURE RESEARCH INTERESTS

- ◆ Type II secretory proteins in *Serratia marcescens*.
- ◆ Biodiesel production using different microbes.
- ◆ Microbial metabolites application in environmental bioremediation and biodegradation using agricultural wastes e.g rice husk.
- ◆ Comparative genomics of various strains using comparative bioinformatics.

REFERENCES

- ◆ Prof. Dr. Aiman El Khatib (Professor of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University, vice president of Egyptian Drug Authority).
- ◆ Prof. Dr. Ramy Karam Aziz (Professor of Microbiology and Immunology Department, Faculty of Pharmacy Cairo University and Head of Microbiology and Immunology Research program at Children’s Cancer Hospital 57357).
- ◆ Prof. Dr. Aymen Samir Yassin (Professor and Chair of Microbiology and Immunology, Faculty of Pharmacy Cairo University).