PERSONAL INFORMATION

Hend Amer Ali Ezelarab

Minia, Egypt

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POSITION

- Lecturer (Ph.D.) of Pharmaceutical Medicinal Chemistry, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Egypt.
- Member of Medicinal Chemistry Department committee, Faculty of Pharmacy, Minia University, Egypt.
- Coordinator of the National Centre for Innovation and Entrepreneurship at the Faculty of Pharmacy, Minia University, Egypt.
- Founding member of the Leadership and Governance Standard of the Central Quality Unit, Faculty of Pharmacy, Minia University, Egypt.

WORK EXPERIENCE

(September 2023- to date)
(August 2018- August 2023)

Lecturer (Ph.D.) of Pharmaceutical Medicinal Chemistry
Assistant Lecturer of Medicinal Chemistry

- Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Egypt
- Supervising the work of students and their projects, providing advice on study skills and helping them with learning problems
- Setting quizzes, homework assignments and examination questions as well as assessing the work and progress of students
- Attendance at conferences and seminars in areas of research
- Working co-operatively with senior college administration and other course coordinators to design, implement, and evaluate course material

(2012–2018)

Demonstrator of Medicinal Chemistry

- Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Egypt
- Demonstrating the use of different practical equipment
- Conducting experiments in labs and answering questions related to those experiments.
- Teaching students' pivotal safety rules

Research Experiences

- Synthesis of New heterocycles from ciprofloxacin with multi-step synthetic techniques
- Separation of the synthesized compounds and confirming their structures *via* several spectral techniques such as IR, NMR spectroscopy techniques
- Performing biological experiments such as antibacterial and antifungal activities using Micro-dilution cup method
- Antifungal mechanism using EDTA-based method.
- Performing docking experiments of the synthesized compounds on both Topoisomerase II, Topoisomerase IV, VEGFR-2, and EGFR active sites using MOE 2014 drug design software.

Projects

- Participation in several grants, including the Researchers Supporting Project number (RSP2024R146) at King Saud University, Riyadh, Saudi Arabia, and the Deanship of Scientific Research, Vice Presidency for Graduate Studies and Scientific Research, King Faisal University, Saudi Arabia [GRANT 4611].

Publications

- **H.A.A. Ezelarab**, S.H. Abbas, H.A. Hassan, G.E.-D.A. Abuo-Rahma, Arch.Pharm Chem.Life.Sci, Recent Updates of fluoroquinolones as Antibacterial Agents; Rev.9, 351(2018) 1-13; https://doi.org/10.1002/ardp.20180014.
- **H.A.A. Ezelarab**, H.A. Hassan, S.H. Abbas, R.M.A. El-Baky, G.E.-D.A. Abuo-Rahma, Design, Synthesis and Antifungal Activity of 1,2,4-Triazole and 1,3,4- Oxadiazole- ciprofloxacin hybrids, J. Adv. Biomed. &Pharm.Sci.2, 1(2018) 78-84; http://jabps.journals.ekb.eg/article_9711.html.
- **H.A.A. Ezelarab**, S.H. Abbas, M.A.S. Abourehab, M. Badr, S. Sureram, P. Hongmanee, P. Kittakoop, G.E.-D.A. Abuo-Rahma, H.A. Hassan, Novel antimicrobial ciprofloxacin-pyridinium quaternary ammonium salts with improved physicochemical properties and DNA gyrase inhibitory activity, Med. Chem. Res. 30 (2021) 2168–2183. https://doi.org/10.1007/s00044-021-02798-3.
- **H.A.A. Ezelarab**, H.A. Hassan, G.E.-D.A. Abuo-Rahma, S.H. Abbas, Design, synthesis, and biological investigation of quinoline/ciprofloxacin hybrids as antimicrobial and anti-proliferative agents, J. Iran. Chem. Soc. 20 (2023) 683–700. https://doi.org/10.1007/s13738-022-02704-7.
- **H.A.A. Ezelarab**, T.F.S. Ali, S.H. Abbas, A.M. Sayed, E.A.M. Beshr, H.A. Hassan, New antiproliferative 3-substituted oxindoles inhibiting EGFR/VEGFR-2 and tubulin polymerization, Mol. Divers. (2023). https://doi.org/10.1007/s11030-023-10603-z.
- **H.A.A. Ezelarab**, T.F.S. Ali, S.H. Abbas, H.A. Hassan, E.A.M. Beshr, Indole-based FLT3 inhibitors and related scaffolds as potential therapeutic agents for acute myeloid leukemia, BMC Chem. 17 (2023) 73. https://doi.org/10.1186/s13065-023-00981-8.
- **H.A.A. Ezelarab**, H.A. Hassan, S.H. Abbas, E.A.M. Beshr, T.F.S. Ali, The main biotargets of indole or 2-oxoindole-based hybrids acting as promising antiproliferative agents, J. Adv. Biomed. Pharm. Sci. 6 (2023) 174–183. https://doi.org/10.21608/jabps.2023.217559.1190.
- **H.A.A. Ezelarab**, A..A.Abd El-Hafeez, T.F.S. Ali, A. M. Sayed, H.A. Hassan, E.A.M. Beshr, S.H. Abbas, New 2-oxoindole derivatives as multiple PDGFRα/ß and VEGFR-2 tyrosine kinase inhibitors, Bio Org 145 (2024) 107234. https://doi.org/10.1016/j.bioorg.2024.107234.
- Mahmoud Abd El Aleem. A. A. El-Remaily, Moustafa O. Aboelez, **Hend A. A. Ezelarab**, Heba Mohammed Refat M. Selim, Enas A. Taha, Shaaban K. Mohamed, Azhaar T. Alsaggaf, Mohamed A. El Hamd, Moumen S. Kamel, Guanidine dicycloamine-based analogs: green chemistry synthesis, biological investigation, and molecular docking studies as promising antibacterial and antiglycation leads, Mol. Divers. (2024), Accepted under Submission ID 31963a55-ae21-4f45-aaa9-5b6a1004b512.
- M.O. Aboelez, **H.A.A. Ezelarab**, G. Alotaibi, D.E.E. Abouzed, Inflammatory setting, therapeutic strategies targeting some pro-inflammatory cytokines and pathways in mitigating ischemia/reperfusion-induced hepatic injury: a comprehensive review, Naunyn. Schmiedebergs. Arch. Pharmacol. (2024). https://doi.org/10.1007/s00210-024-03074-y.
- D.E.E. Abouzed, **H.A.A. Ezelarab**, Heba Mohammed Refat M. Selim, Mahmoud. M. A. El-sayed, Mohamed A. El Hamd, M.O. Aboelez, Multimodal Modulation of Hepatic Ischemia/Reperfusion-induced Injury by Phytochemical Agents: A Mechanistic Evaluation of Hepatoprotective Potential and Safety Profiles, Int. Immunopharmacol. (2024).
- Hany M. Abd El-Lateefa, Ali M. Ali, **Hend A. A. Ezelarab**, Azhaar T. Alsaggaf, Wael A. Mahdi, Sultan Alshehri, Mohamed A. El Hamd, Moustafa O. Aboelez, Design of Sulfadiazine Derivatives as Dual Wild and Mutant EGFR Inhibitory Agents: Biological Investigation, Computational Molecular Simulation, and ADMET Studies, RSC. Adv. (2024), Accepted under press Manuscript ID: RA-ART-06-2024-004165.
- A.M. Ahmed, M.O. Aboelez, **H.A.A. Ezelarab**, A. Khodairy, A. Hassan, M.A. User, H. Salah, New S- and N-alkyl functionalized bis-1,2,4-Triazolyl-based derivatives as potential dual EGFRWT and EGFRT790M inhibitors: Synthesis, anti-proliferative evaluation, molecular docking study and ADMET studies, J. Mol. Struct. 1324 (2025) 140720. https://doi.org/10.1016/j.molstruc.2024.140720.

EDUCATION AND TRAINING

(September 2023)

Ph.D. 's degree of Pharmaceutical Sciences "Medicinal Chemistry"

Faculty of Pharmacy, Minia University, Egypt

Thesis entitled: "

"**Design, Synthesis, Molecular Modeling, and Mechanistic Study of Novel Indole, and Indole -Thiazole Hybrids of Biological Interest**"

(August 2018)

Master's degree of Pharmaceutical Sciences "Medicinal Chemistry"

Faculty of Pharmacy, Minia University, Egypt

Thesis entitled: "Design, Synthesis, and Biological Investigation of New Heterocycles from 7-(4-piperazinyl) Ciprofloxacin".

Principal Master courses (2013-2014):

- Instrumental analysis for chemical compounds
- Physical chemistry
- Mathematical and biostatistics
- Computer sciences
- Advanced medicinal chemistry

(May 2012) **Bachelor's degree of Pharmaceutical Sciences**
"Graded Excellent with honors"
Faculty of Pharmacy, Minia University, Egypt

PERSONAL SKILLS

Mother tongue(s) Arabic

English
- Excellent written and spoken

Computer
- Excellent in windows, word, excel, power point, internet.
- Very good in Excel, endnote, and Graph Pad Prism

Job-related skills
- Ability to work under pressure and team working.
- Ability to communicate with different kinds of students and research colleges.
- Having a good lab skill (various purification and separation techniques as Thin Layer Chromatography (TLC), refluxing and filtration
- Good experience in working on different lab equipment and apparatus such as FT-IR, Rotary Evaporator, melting point…. etc.)

WORKSHOPS

- Exam systems and students' evaluation (July 2013).
- Effective presentation (March 2013)
- Quality standards in teaching process (March 2014)
- Communication skills in education process (2014)

PROFESSIONL PROFILE

Good experience using software such as **Endnote**, Mendeley, **Zotero**, **MOE**, **Graph pad**, **Word processing**, **Spread sheets (Excel)** and **Power point presentations**.

References

Prof. Dr. Mohamed Abdel-Aziz Mohamed Osman
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