Prof. Dr. Ahmed Mutanabbi Abdula

Professor of Organic Chemistry

Personal Information

Name: Ahmed Mutanabbi Abdula

Date & Place of Birth: 14th of Aug. 1977 / Baghdad

Gender: Male

Nationality: Iraqi

Address: Chemistry Department, College of Science, Mustansiriyah University, Baghdad, Iraq

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Education

Ph.D. (Organic Chemistry, 2009) – University of Jordan, Jordan.

Thesis: Design, Discovery and Synthesis of new β-D-Glucosidase and β-D-Galactosidase Inhibitors.

M.Sc. (Organic Chemistry, 2002) – Mustansiriyah University, Iraq.

Thesis: Synthesis of new compounds derived from Coumarin and Thymol.

B.Sc. in Chemistry (1999) – Mustansiriyah University, Iraq.

Research Interests

Discovery, design, and synthesis of biologically active compounds.

Academic Employments

2023–Present: Editorial Manager, Al-Mustansiriyah Journal of Science, Mustansiriyah University, Baghdad, Iraq.

2013–Present: Professor, Department of Chemistry, College of Science, Mustansiriyah University, Baghdad, Iraq.

2014: Visiting Researcher (Postdoctoral Fellow), Graduate School of Pharmaceutical Sciences, Nagoya City University, Japan.

2009–2013: Lecturer, Department of Chemistry, Mustansiriyah University, Baghdad, Iraq.

2002–2004: Lecturer in Organic Chemistry Laboratories, Mustansiriyah University.

Teaching Experience

Undergraduate: General Chemistry, Organic Chemistry, Stereochemistry, Spectroscopy, Heterocyclic Chemistry, and Practical Organic Chemistry.

Postgraduate: Advanced Organic Chemistry, Spectroscopy, and Stereochemistry.

Supervision

Supervision of several B.Sc., M.Sc., and Ph.D. research projects at Mustansiriyah University:

M.Sc. Students: Ahmed H. Ismail (2015–2017), Ghosoun L. Mohsen (2016–2018), Saja E. Abid (2017–2019), Mohammed I. Sultan (2019–2021), Jameel A. M. Al-Duraye (2023–2025).

Ph.D. Students: Mohammed Hisham (2017–2019), Ban Hassan Albadry (2017–2020), Ammar Farman (2019–2021), Nihad Khalil (2020–Present), Inas Salim Mahdi Salih (2022–2024).

Fellowship and Awards

MIF Postdoctoral Fellowship, Nagoya City University, Japan (2014).

Full Ph.D. Scholarship – Iraqi/Jordanian Academic Exchange Program (2005–2009).

Multiple Certificates of Appreciation from Mustansiriyah University and Ministry of Higher Education (2011–2025).

Selected Publications

Kadhum, H. H.; Ibraheem, S.; Jawad, Z. N.; Jeddoa, Z. M.; Rasool, K. H.; Jabir, M. S.; Najm, M. A.; Jawad, S. F.; Al-Kuraishy, H. M.; Nayef, U. M.; Abdula, A. M.; Ghotekar, S.; Swelum, A. A. Potential pharmaceutical applications and molecular docking study for green fabricated ZnO nanoparticles mediated by Raphanus sativus: In vitro and in vivo study. Nanotechnology Reviews 2024, 13 (1), 20240113. https://doi.org/10.1515/ntrev-2024-0113

Al-Azawi, K. F.; Hasoon, B. A.; Ismail, R. A.; Rasool, K. H.; Jabir, M. S.; Abdula, A. M.; Ghotekar, S.; Swelum, A. A. Pharmaceutical properties of novel 3-((diisopropylamino)methyl)-5-(4-((4-(dimethylamino)benzylidene)imino)phenyl)-1,3,4-oxadiazole-2(3H)-thione. Scientific Reports 2025, 15, 15019. https://doi.org/10.1038/s41598-025-98061-5

Mahdi, I. S.; Abdula, A. M.; Jassim, A. M. N.; Baqi, Y. Design, Synthesis, Antimicrobial Properties, and Molecular Docking of Novel Furan-Derived Chalcones and Their 3,5-Diaryl-Δ²-pyrazoline Derivatives. Antibiotics 2024, 13 (1), 21. https://doi.org/10.3390/antibiotics13010021

Abdula, A. M.; Mohsen, G. L.; Jassim, B. H.; Jabir, M. S.; Rushdi, A. I. R.; Baqi, Y. Synthesis, pharmacological evaluation, and in silico study of new 3-furan-1-thiophene-based chalcones as antibacterial and anticancer agents. Heliyon 2024, 10 (11), e32257. https://doi.org/10.1016/j.heliyon.2024.e32257

Abdula, A. M.; Ismail, A. H.; Tomi, I. H. R.; Al-Daraji, A. H. R.; Baqi, Y. Synthesis, Antimicrobial Evaluation, and Docking Study of Novel 3,5-Disubstituted-2-Isoxazoline and 1,3,5-Trisubstituted-2-Pyrazoline Derivatives. Medicinal Chemistry 2019, 15 (1), 1–12. https://doi.org/10.2174/1573406415666191107121757

Abdula, A. M.; Al-Bayati, R. I. H.; Al-Daraji, A. H. R.; Al-Marjani, M. F. Synthesis, Antimicrobial and Docking Study of Three Novel 2,4,5-Triarylimidazole Derivatives. Journal of the Saudi Chemical Society 2013, 17 (3), S509–S516. https://doi.org/10.1016/j.jscs.2013.03.004

Abu Khalaf, R.; Abdula, A. M.; Mubarak, M. S.; Taha, M. O. Tryptophan and thiosemicarbazide derivatives: Design, synthesis, and biological evaluation as potential β-D-galactosidase and β-D-glucosidase inhibitors. Medicinal Chemistry Research 2015, 24 (6), 2529–2550. https://doi.org/10.1007/s00044-014-1314-4

Abu Khalaf, R.; Abdula, A. M.; Mubarak, M. S.; Taha, M. O. Discovery of new β-D-glucosidase inhibitors via pharmacophore modeling and QSAR analysis followed by in silico screening. Journal of Molecular Modeling 2011, 17 (3), 443–464. https://doi.org/10.1007/s00894-010-0737-1

Abdula, A. M.; Abu Khalaf, R.; Mubarak, M. S.; Taha, M. O. Discovery of new β-D-galactosidase inhibitors via pharmacophore modeling and QSAR analysis followed by in silico screening. Journal of Computational Chemistry 2011, 32 (3), 463–482. https://doi.org/10.1002/jcc.21635

Computer Skills

IC3 Certificate from Certiport (2011).

Good knowledge of chemistry-related software and molecular modeling tools.

Languages

Arabic – Native Language; English – Very Good