

## CV

Assist. Prof. Ayad Mohammed Rasheed Raauf

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### PERSONAL SUMMARY: EDUCATION:

- Ph.D. Organic Chemistry. Baghdad University, College of Science, Dept. of Chemistry. Iraq (1996).
- M.Sc. Inorganic Chemistry. Baghdad University, College of Science, Dept. of Chemistry. Iraq (1981).
- B.Sc. Chemistry. Baghdad University, College of Science, Dept. of Chemistry. Iraq (1978).

### ACADEMIC HONORS AND AWARDS:

Many of the thanks' books and appreciation from.

- Minister of Higher Education and Scientific Research.
- President of the University of Mustansiriyah.
- Dean of the College of Pharmacy / University of Mustansiriyah.
- Dean of the College of Pharmacy / University of Baghdad.
- Dean of the College of science / University of Baghdad.
- Dean of the College of Al-rasheed.

### ACADEMIC /TEACHING EXPERIENCE

- Head of Scientific Affairs Unit
- Pharmaceutical Chemistry Branch
- Chairman of the examination committee
- Responsible for scientific promotions
- Supervision of many graduate students (Master and PhD)
- Consultant for PhD students from the college of Medicine - Al-Nharin University
- Scientific scholar of an international journal
- Scientific evaluator of many research papers from local journal
- Scientific proof of many thesis postgraduate students
- Scientific evaluator for many patents sent by the Standardization and Quality Control Authority - Ministry of Planning
- Supervising the graduation projects of the fifth stage
- Member of the Editorial Committee of the Journal of the college of Pharmacy - Mustansiriyah University

## COURSES TAUGHT:

Graduate	Undergraduate
Advanced Organic Chemistry	Organic Chemistry II (Second Stage)
Advanced heterocyclic chemistry	Organic Chemistry III (Second Stage)
Polymer Chemistry	
Selective topics	

## PUBLICATIONS:

- PATENTED

1. Patented no. 7367 (2020)
2. Patented no. 6741 (2020)

- ARTICLES

1. Duha E. Taha, Monther F. Mahdi, Ayad M. R. Raauf. Molecular modeling, synthesis, and antiproliferative evaluation of new isoxazole ring linked by Schiff bases and azo bond. J Adv Pharm Technol Res 2023;14:213-9.
2. **Ayad M. R. Raauf, Tagreed N-A Omar, Monther F. Mahdi & Hayder R. Fadhil. Synthesis, molecular docking and anti-inflammatory evaluation of new trisubstituted pyrazoline derivatives bearing benzenesulfonamide moiety. Natural Product Research. 2022. <https://doi.org/10.1080/14786419.2022.2117174>**
3. Mahmood Amer<sup>1</sup>, Monther Faisal Mahdi, Ayad Kareem Khan, Ayad Mohammed Rasheed Raauf. Design, Molecular Docking, Synthesis, Preliminary in Silico ADME Studies, and Anti-inflammatory Evaluation of New Oxazole Derivatives. Journal of Pharmaceutical Negative Results. 2022, 13(7):217-238
4. Tholfekar Fo'ad, Ghaidaa S. Hameed, Ayad M. R. Raauf. Thermal Analysis in the Pre-formulation of Amorphous Solid Dispersion for Poorly Water-soluble Drugs International Journal of Drug Delivery Technology. 2022;12(4):1595-1599
5. Kanar Muthanna Alawad, Monther Faisal Mahdi, Ayad M.R. Raauf. Molecular Docking study, and In vitro Evaluation of Antitumor Activity of Some New Isoxazoline and Pyrazoline Derivatives of Nabumetone against breast cancer cell line (MCF-7). Al Mustansiriyah Journal of Pharmaceutical Sciences, 2022, 22(3):24-34

6. **Hayder R. Fadhil, Monther F. Mahdi and Ayad M. R. Raauf. Molecular Docking, Synthesis, Characterization And AntiProliferative Evaluation Of Pyrazoline Derivative. Biochem. Cell. Arch.2022. 22(1):2927-2936**
7. **Yasir Q. Almajidi, Nidhal K. Maraie, Ayad M. R. Raauf. Utilization of solid in oil nanodispersion to prepare a topical vemurafenib as potential delivery system for skin melanoma. Applied Nanoscience. 2022. <https://doi.org/10.1007/s13204-021-02158-y>.**
8. Mustafa Shihan, Ayad Raauf, Noor Hatef Naser. In Silico Study and In Vitro Evaluation of Novel Synthesized Quinolone Derivatives Having Five-Membered Heterocyclic Moieties. Egyptian Journal of Chemistry. 2022. 65(3):215-225.
9. Ibrahim, N.W., Mahdi, M.F., Raauf, A.M.R. Design, molecular docking, synthesis and evaluation of new isatin derivatives bearing pyridine moiety as potential tyrosine kinase inhibitors.2022, 65(2), pp. 9–18
10. Allawi, M.M., Mahdi, M.F., Raauf, A.M.R. Synthesis, preliminary pharmacological evaluation, molecular docking, and ADME studies of new 4-thiazolidinone derivatives bearing ketoprofen moiety targeting cyclooxygenase enzyme. 2021, 64(12), pp. 7239–7250
11. Kanar M. Alawad; Monther F. Mahdi; Ayad M.R. Raauf. Molecular Docking, Synthesis, Characterization And Adme Studies Of Some New Five-Member Ring Heterocyclic Compounds With In Vitro Ntiproliferative Evaluation. Journal of Hunan University (Natural Sciences). 2021, 48(9), 367-382.
12. Zahraa S.Ghanim; Monther F.Mahdi; Ayad M.R.Raauf. Molecular Docking, synthesis, anticancer assessment and ADME study of naproxen containing imidazole ring derivatives. Material today: proceeding.Available online 5 June 2021.
13. Noor Waleed Ibrahim; Monther F.Mahdi; Ayad M.R.Raauf. Design, molecular docking, synthesis and evaluation of new 5-aminoisatin derivatives as tyrosine kinase inhibitors.Material today: proceeding.Available online 4 June 2021. <https://doi.org/10.1016/j.matpr.2021.05.487>.
14. Hussien A Karim; Ayad M.R. Raauf; Karima F. Ali. Synthesis And Preliminary Pharmacological Evaluation Of Some New Triazole Derivatives Bearing Nabumetone Moiety Targeting Cyclooxygenase Enzyme. Rys Rev Pharm. 2021, 12(1), 190-195.
15. Ayad Mohamed Rasheed Raauf; Hala Ayad Mohamed Rasheed; Farah Abdulhaleem. Novel Antimicrobial Sulfonamides Derived from Nabumetone. Organic Preparations and Procedures International 2021, 53, 95-99. DOI: 10.1080/00304948.2020.1850089
16. Saja Nabhan Addai; Bahir Abdul Razzaq Mshimesh; Ayad Mohammad Rasheed.

Phytochemistry and cytotoxic activity of *Annona muricata* Seed Extracts against MEF cell line. *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2020, 20(4), 57-71.

17. Zaid Mahdi Jaber Al-Obaidi; Omar F. Abdul-Rasheed; Monther F Mahdi; Ayad M R Raauf. A Comparative, Randomized, Double-Blinded, and Vehicle-Controlled Study for the Reduction in Facial Pigmentation after Treatment with both Tranexamic Acid and Tranexamic Acid Ethyl Ester. *Sys Rev Pharm* 2020; 11(6): 563-567.
18. Ali N Hussein; Omar F. Abdul-Rasheed; Monther F Mahdi; Ayad M R Raauf. The Evaluation of Antiproliferative Effect of Imatinib derivatives Against Breast and Colon Cell-Lines. *International Journal of Pharmaceutical Quality Assurance* 2020; 10(1): 144-147 DOI: 10.25258/ijpqa.11.1.22.
19. Abdullah Q. Khudhur<sup>1\*</sup>, Nidhal K. Maraie<sup>2</sup>, Ayad M.R. Raauf. Identification and Quantitation of Phospholipid Binding Sites in Lipid Drug Conjugate Pharmacosomes using Model Drug. *Sys Rev Pharm* 2020; 11(5): 458 - 463.
20. Ayad M. R. Raauf; Sura S. Raoof ; Nehad Kanaan Abed; Hala Ayad M. Non-Steroidal Anti-Inflammatory Drugs (NSAIDs): Synthesis of Ibuprofen, Naproxen and Nabumetone. *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2019, 19(3), 19-27.
21. Zaid Mahdi Jaber Al-Obaidi; Omar F. Abdul-Rasheed; Monther F Mahdi; Ayad M R Raauf. Biological Evaluation of Newly synthesized Spebrutinib Analogues: Potential Candidates with Enhanced Activity and Reduced Toxicity Profiles. *International Journal of Drug Delivery*. 2019, 9(03):339-346. DOI: 10.25258/ijddt.v9i3.3.
- 22. Ali N Hussein; Omar F. Abdul-Rasheed; Monther F Mahdi; Ayad M R Raauf. Molecular Docking Studies for Design, Synthesis and Characterization of New Imatinib Analogues. 2019, 10(4), 1-9.**
23. Zaid Mahdi Jaber Al-Obaidi; Omar F. Abdul-Rasheed; Monther F Mahdi; Ayad M R Raauf. In Silico Design, Synthesis and Characterization of New Spebrutinib Analogues. *Pharm Anal Acta*, 2019, 10(3), 1-9.
24. Omar A. Yousif, Monther F. Mahdi and Ayad M. R. Raauf “Design, synthesis, preliminary pharmacological evaluation, molecular docking and ADME studies of some new pyrazoline, soxazoline and pyrimidine derivatives bearing nabumetone moiety targeting cyclooxygenase enzyme” *J Contemp Med Sci* 2019,5(1): 41–50 2.
25. Ayad M. R. Raauf, Rafah F. Al-Smaism, Khalida A. Thejeel & Hala Ayad M. Rasheed “Synthesis, characterization and antimicrobial study via new heterocyclic derivatives of Trimethoprim “Natural Product Research 2019, 33(9): 1277–1283. <https://doi.org/10.1080/14786419.2018.1470516>

26. Mustafa M. Allawi; Monther F. Mahdi; Ayad M. R. Raauf. Synthesis, anti-inflammatory, molecular docking and ADME studies of new derivatives of ketoprofen as cyclooxygenases inhibitor. *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2019, 19(4), 125-139.
27. Duha E. Taha; Ayad M.R Raauf; Karima F. Ali. Design, Synthesis, Characterization, Biological Activity and ADME Study of New 5-arylidene-4-Thiazolidinones Derivatives Having. *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2019, 19(4), 77-88.
28. Enas k. Abd alazez; Ayad M.R Raauf; Karima F. Ali. Synthesis, Characterization and Antibacterial Activity of New Derivatives of Imidazolidine having Sulfamethoxazole Moiety. *Al Mustansiriyah Journal of Pharmaceutical Sciences*, 2019, 19(4), 217-238.
29. Anwar Mehdi, Widad M K Al-Ani; Ayad Raouf. Isolation of Astragalin from Iraqi *Chenopodium Album*. *Asian J Pharm Clin Res*, 2018, 11(12), 530-535.
30. Monther Faisal Mahdi, Ayad Mohammed Rasheed Raauf, and Shahbaa Shafeeq Rzoqi "Synthesis, Characterization and Antimicrobial Study of New Nalidixic Acid Mannich Base Derivatives" *Der Pharma Chemica*, 2016, 8(19):424-432.
31. Anwar M. Abdulkareem , Widad M K Al-Ani, Ayad M R Raauf " Detection of Sitosterol in *Chenopodium album* of Iraq by GC/MS Analysis" *Int. J. Pharm. Sci. Rev. Res.* 2016, 41(2), 38-40.
32. Monther Faisal Mahdi, Ayad Mohammed Rasheed Raauf and Noor Muneer Mohammed "Synthesis, characterization and preliminary pharmacological evaluation of new non-steroidal anti-inflammatory pyrazoline derivatives" *European Journal of Chemistry*. 2015, 6(4), 461-467.
33. Monther F. Mahdi; Ayad M. R.Raauf and Farah A.H. Kadhim "Design, Synthesis and Acute Anti-Inflammatory Evaluation of New Non-Steroidal Anti-Inflammatory Agents Having 4-Thiazolidinone Pharmacophore" *Journal of Natural Sciences Research*, 2015, 5(6), 21-28.
34. Ayad M.R. Raauf, "Synthesis, characterization and Biological activity of new mefenamic acid - oxoazetidene derivatives", *Al-Mustansiriyah J. of pharmaceutical science*. 2013, 13(1), 75-81.
35. Ayad M.R. Raauf et al, "Synthesis, characterization and antimicrobial activity of 3- substituted benzo[4,5]thiazolo[2,3-c][1,2,4]triazole", *Al-Mustansiriyah J. of pharmaceutical science*. 2013, 13(2), 9-15.
36. Ayad M.R. Raauf et al, "Chemical Composition and Antimicrobial Activity of the Crude Extracts Isolated from *Zingiber Officinale* by Different Solvents" *Pharmaceutica Analytica Acta*. 2012,3(9)
37. Ayad M.R. Raauf et al, "Spectrophotometric Determination of Trimethoprim in Pure Form and Pharmaceutical Formulations with Metol and Ferricyanide" *Tikrit J. of pharmaceutical science*. 2012, 8(2), 69-80.

38. Ayad M.R. Raauf et al, "Spectrophotometric Determination of Sulfacetamide in Pure Form and Pharmaceutical Formulations with Metol and Ferricyanide", Al-Mustansiriyah J. of pharmaceutical science. 2012, 12(2), 189-199.
39. Ayad M.R. Raauf et al, "Effect of Viola odorata extract on Pseudomonas aeruginosa produce  $\beta$ -lactamase enzyme", Mustansiriya medical journal. 2012, 11(1), 42-45.
40. Ayad M.R. Raauf et al, "The study of antibacterial activity of Hibiscus sabdariffa flowers extracts", Al-Mustansiriyah J. of pharmaceutical science. 2012, 11(1), 47-52.
41. Ayad M.R. Raauf et al, "The Antibacterial Activity of Callemia Sinensis (green tea) on Some Bacterial Species", Al-Mustansiriyah J. of pharmaceutical science. 2011 10(2), 46 – 53.
42. Ayad M.R. Raauf et al, "Spectrophotometric Determination of Aspirin in Pure Form and Pharmaceutical Formulations using oxidation – reduction reaction", Al-Mustansiriyah J. of pharmaceutical science. 2010. 8(2), 157 – 168.
43. Ayad M.R. Raauf et al, "Synthesis, Characterization and Antimicrobial Activity of some new 2-Mercapto benzothiazole Heterocyclic Derivatives", Medical J. of Babylon. 2010, 7(3-4), 422- 430.
44. Ayad M.R. Raauf, Cecilia K. Haweel & Mohammed S. Hammed. Extraction of castor oil for (medical use). AJPS, 2009, 6(1), 174-178.