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- Research area: Medicinal & Organic Chemistry – Anticancer, Anti-Inflammatory, Analgesic, Antimicrobial, Antifungal, Antioxidant, Drug Design, Molecular Docking
- 11 Publications, 1 Patents, 1 Books



### **Publications (current):**

- ❖ **Muheyuddeen G**, Rayini SH, Yadav P, Gupta SK. In vivo Analgesics and in vitro Antioxidants Activity of Newly Synthesized Mannich Bases of Lawsone. Asian Journal of Pharmaceutical Research. 2023;13(1):11-7.  
DOI: [10.52711/2231-5691.2023.00002](https://doi.org/10.52711/2231-5691.2023.00002)
- ❖ **Muheyuddeen G**, Khan MM, Ahmad T, Srivastava S, Verma S. In vivo analgesic and anti-inflammatory efficacy of new imidazole (1, 3-diaza-2, 4-cyclopentadiene) analogues synthesised from Schiff base, as well as their characterization. DOI: <https://doi.org/10.21203/rs.3.rs-3180881/v1>
- ❖ **Gulam Muheyuddeen**, Dr. Stuti Verma, Saquib Tanweer, Dr. Anoop Sirbaiya, Jishan Ahmad. Synthesis, DFT Studies, Antioxidant and Anticancer Activities of Newly Synthesized Compounds Containing Lawsone Using Different Halo Reagents. J. Adv. Zool. [Internet]. 2022 Oct. 15 [cited 2024 Apr. 10];43(1):656-77. <https://jazindia.com/index.php/jaz/article/view/4399>
- ❖ **Muheyuddeen, G.**, Khan, M.Y., Ahmad, T. et al. Design, synthesis, and biological evaluation of novel imidazole derivatives as analgesic and anti-inflammatory agents: experimental and molecular docking insights. Sci Rep 14, 23121 (2024). <https://doi.org/10.1038/s41598-024-72399-8>.
- ❖ **Muheyuddeen G**, Verma S, Gautam V, Satsangi A, Yadav AK, Ansari MI, “The Assessment of Indian Henna (*L. Inermis*) Aqueous Extracts of Phenolic Composition and Potential for Wound Healing”, /Afr.J.Bio.Sc. 6(15) (2024). <https://doi.org/10.48047/AFJBS.6.15.2024.7723-7739>.

- ❖ **Muheyuddeen G**, Rav DS, Verma S, Gautam SK, Gupta SK. *Lawsonia inermis linnaeus: Pharmacological peculiarity and modern progression*. Research Journal of Pharmacognosy and Phytochemistry. 2023;15(1):63-76.  
DOI: [10.52711/0975-4385.2023.00010](https://doi.org/10.52711/0975-4385.2023.00010)
- ❖ **Muheyuddeen G**, Divy SR, Gautam SK, Gupta SK. *Lawsonia inermis L. Phytopharmacological Characteristics and Recent Advancement*. Research Journal of Pharmacognosy and Phytochemistry. 2023 Mar 17;15(1):11-23.  
DOI: [10.52711/0975-4385.2023.00003](https://doi.org/10.52711/0975-4385.2023.00003)
- ❖ **Muheyuddeen G**, Verma S, Sirbaiya A, Ahmad T. *Biomarkers in Colorectal Cancer: Recent Investigation and Future Prospective*. NeuroQuantology. 2023 Jun;21(6):1155-80.  
DOI: [10.48047/nq.2023.21.6.NQ23120](https://doi.org/10.48047/nq.2023.21.6.NQ23120)
- ❖ **Muheyuddeen G**, Ahmad T, Tanweer S, Chaurasia V, Ansari MI, “A Meta-Analysis and Comprehensive Evaluation of the Impact of Supplementing with Cinnamon Bark on Glycolipid Metabolism in Type 2 Diabetic Mellitus: A Review” journal of chemical health risk, JCHR (2024) 14(2), 2018-2034.
- ❖ Ahmad T, **Muheyuddeen G**, Alam M, Aziz I, Khushtar M, “Unveiling the Promising Potential of Spermidine (Polyamines): Recent Advancements and Emerging Perspectives”, Afr. J. Biomed. Res. Vol. 27(3s) (September 2024); 1246 – 1270. DOI: <https://doi.org/10.53555/AJBR.v27i3S.2265>

#### **Patents:**

- ❖ **Muheyuddeen Gulam**, Verma Stuti, Rayini Sarwar Husain, Ansari Shaheen, Tanweer Saquib, Ansari Suheb “Analgesic and Antioxidant Activity of Newly Synthesized Mannich Bases of Lawsone” Patent Number 202311081543, Date of File 30/11/2023 Date of and approved Dec 29, 2023.

#### **Books:**

- ❖ A Textbook on Herbal Drug Technology Verma Stuti, Sharma Rahul Kumar, Sirbaiya Anup Kumar, Kumar Rajeev, Yadav Priyanka, **Muheyuddeen Gulam**, Shashwat publication.