

### Faculty Portfolio

**Dr. Hissana Ather**

**Assistant Professor**

Pharmaceutical Chemistry Department

College of Pharmacy

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#### **Education:**

Year of Graduation	Qualifications (Specializations if any)	University/College, Country
2010	Doctor of Philosophy (Organic Chemistry)	Osmania University/ Indian Institute of Chemical Technology (IICT) Hyderabad Telangana, India
2002	Master of Sciences (Organic Chemistry)	Osmania University Hyderabad Telangana, India
2000	Bachelor of Sciences	Osmania University Hyderabad Telangana, India

#### **Professional experience:**

Year	Positions	University/College, Country
November 2014-present	Assistant Professor Pharmaceutical Chemistry Department	College of Pharmacy, King Khalid University, Abha, KSA
August 2003- February 2004	Lecturer Department of Chemistry, PG Studies	Sarojini Naidu Vanita Maha Vidyalaya College of Women, Hyderabad.
2004 –2010	Research Fellow	Indian Institute of Chemical Technology (IICT), Hyderabad

#### **Academic/research awards:**

Year/Duration of Award	Name of the Award	University/Company, Country
2021	3 <sup>rd</sup> Prize- Student research group	College of Pharmacy King Khalid University Saudi Arabia
2018	1 <sup>st</sup> Prize- Student research group	College of Pharmacy King Khalid University Saudi Arabia
2003	CSIR (NET), National level exam conducted by Council of Scientific	Osmania University, Hyderabad, India

	and Industrial Research, Govt. of India.	
2002	Recipient of V Bheemaiah Memorial Gold Medal for securing university first rank in M.Sc. Chemistry	Osmania University, Hyderabad, India
2002	Recipient of Prof. N V Subha Rao Memorial Gold Medal for securing Highest Marks in Organic Chemistry in M.Sc.	Osmania University, Hyderabad, India
2002	Recipient of Dr. K Anji Reddy Gold Medal for securing university first rank in M.Sc. - Organic Chemistry	Osmania University, Hyderabad, India

#### Workshops/ Trainings:

Year	Title	University/Company, Country
October 2023	Certification: 5 days National Level Online Teachers Training Program-FDP	Jodhpur-India
January 2023	Certification: 2nd National Convention of Indian Society of Pharmaceutical Regulatory Affairs (ISPRA) & One-week e-FDP) in Global Regulatory Affairs in Pharmaceutical Industry: Due Diligence on Current Trends and Practices.	Gujarat- India
March 2021	Basic Fundamentals and Hands-on Training on Sophisticated Instruments	India
March 2020	Faculty Development Day	King Khalid University

#### Research interests:

- Multistep synthesis and purification of organic compounds by flash chromatography (column chromatography), recrystallization, distillation, and sublimation techniques.
- Development of new methodologies for organic synthesis.
- Discovery and development of new agents of biological interest.

#### Teaching experience:

- Working as Assistant Professor in the Department of Pharmaceutical Chemistry, College of Pharmacy, King Khalid University, Abha from 02/02/1436 (24/11/2014) to till date.
- Worked as Lecturer in the Department of Chemistry, PG Studies at Sarojini Naidu Vanita Maha Vidyalaya, College of Women, Hyderabad from 6th August 2003 to 29th February 2004.

## Publications:

1. **Hissana Ather**, Aysha A. Ali Theban, Fareea Ashar, Boshra Yahya A. Mohammad Essa, Yomna Ali A. Albarqi, Ghadah Saad A. Alshehri, Renad Abdulhadi M. Almodawi. Synthesis, Characterization, Molecular Docking Studies and Antimicrobial activity of Azomethine Derivatives of 1,3-substituted pyrazole. *Heterocycles*. **2023**; 106(10), Prepress. <https://doi.org/10.3987/COM-23-14877>
2. Nabila A. Kheder, **Hissana Ather**, Naglaa S. Mahmoud, Ahmad M. Farag & Ahmed M. El Defrawy. Regioselective synthesis of some new pyrazole and isoxazole derivatives incorporating benzothiazole moiety: Experimental and theoretical studies. *Synthetic Communications*. **2023**; 53(21): 1799-1811. <https://doi.org/10.1080/00397911.2023.2248305>
3. Nabila A. Kheder, **Hissana Ather**, Dalia R. Emam, Naglaa S. Mahmoud, Asmaa M. Fahim & Ahmad M. Farag. Synthesis and in-Silico Studies of Some New Thiazole Carboxamide Derivatives with Theoretical Investigation. *Polycyclic Aromatic Compounds*. **2023**. <https://doi.org/10.1080/10406638.2023.2243639>
4. Javid S, **Ather H**, Hani U, Siddiqua A, Asif Ansari SM, Shanmugarajan D, Yogish Kumar H, Arivuselvam R, Purohit MN, Kumar BRP. Discovery of Novel Myristic Acid Derivatives as N-Myristoyltransferase Inhibitors: Design, Synthesis, Analysis, Computational Studies and Antifungal Activity. *Antibiotics*. **2023**; 12(7):1167. <https://doi.org/10.3390/antibiotics12071167>
5. Mohammad Azam Ansari, Shoab Shoaib, Mohammad N. Alomary, **Hissana Ather**, Shaik Mohammad Asif Ansari, Umme Hani, Yahya F. Jamous, Sami A. Alyahya, Jameela Naif Alharbi, Mohammad Azhar Imran, Shadma Wahab, Wasim Ahmad, Najmul Islam. Deciphering the emerging role of phytocompounds: Implications in the management of drug-resistant tuberculosis and ATDs-induced hepatic damage. *Journal of Infection and Public Health*. **2023**; 16(9): 1443-1459. <https://doi.org/10.1016/j.jiph.2023.07.016>.
6. Mir Najib Ullah SN, Afzal O, Altamimi ASA, **Ather H**, Sultana S, Almalki WH, Bharti P, Sahoo A, Dwivedi K, Khan G, et al. Nanomedicine in the Management of Alzheimer's Disease: State-of-the-Art. *Biomedicines*. **2023**; 11(6):1752. <https://doi.org/10.3390/biomedicines11061752>
7. Malik MS, **Ather H**, Asif Ansari SM, Siddiqua A, Jamal QMS, Alharbi AH, Al-Rooqi MM, Jassas RS, Hussein EM, Moussa Z, et al. Novel Indole-Tethered Chromene Derivatives: Synthesis, Cytotoxic Properties, and Key Computational Insights. *Pharmaceutics*. **2023**; 16(3):333. <https://doi.org/10.3390/ph16030333>
8. Adon T, Shanmugarajan D, **Ather H**, Ansari SMA, Hani U, Madhunapantula SV, Honnavalli YK. Virtual Screening for Identification of Dual Inhibitors against CDK4/6 and Aromatase Enzyme. *Molecules*. **2023**; 28(6):2490. <https://doi.org/10.3390/molecules28062490>
9. Hani U, Osmani RAM, Yasmin S, Gowda BHJ, **Ather H**, Ansari MY, Siddiqua A, Ghazwani M, Fatease AA, Alamri AH, et al. Novel Drug Delivery Systems as an Emerging Platform for Stomach Cancer Therapy. *Pharmaceutics*. **2022**; 14(8):1576. <https://doi.org/10.3390/pharmaceutics14081576>
10. Begum MY, M. Osmani RA, Alqahtani A, Ghazwani M, Hani U, **Ather H**, et al. Development of stealth liposomal formulation of celecoxib: In vitro and in vivo evaluation. *PLoS ONE*. **2022**; 17(4): e0264518. <https://doi.org/10.1371/journal.pone.0264518>
11. Mohammed Ghazwani, Umme Hani, Riyaz Ali M. Osmani, Mohamed Rahamathulla, M. Yasmin Begum, Shadma Wahab, D. V. Gowda, Akhila Akkihebbal Ravikumar, Honnavalli Yogish kumar, **Hissana Ather**, Afrasim Moin. An Efficient Herbal Approach for Treating Fungal Infection in Cervical Cancer Patients by Developing and Optimizing a Vaginal Suppository. *International Journal of Polymer Science*. **2021**. <https://doi.org/10.1155/2021/9198387>

12. Umme Hani, Riyaz Ali M. Osmani, Ayesha Siddiqua, Shadma Wahab, Sadia Batool, **Hissana Ather**, Norhan Sheraba, Ali Alqahtani. A systematic study of novel drug delivery mechanisms and treatment strategies for pancreatic cancer. *Journal of Drug Delivery Science and Technology*. **2021**; 63:102539. <https://doi.org/10.1016/j.jddst.2021.102539>
13. M.D. Faruque Ahmad, Shadma Wahab, Fakhruddin Ali Ahmad, M. Intakhab Alam, **Hissana Ather**, Ayesha Siddiqua, Syed Amir Ashraf, Mohammad Abu Shaphe, Mohammed Idreesh Khan, Rashid Ali Beg. A novel perspective approach to explore pros and cons of face mask in prevention the spread of SARS-CoV-2 and other pathogens. *Saudi Pharmaceutical Journal*. **2021**; 29(2):121-133. <https://doi.org/10.1016%2Fj.jsps.2020.12.014>
14. Umme Hani and **Hissana Ather**. Evaluation of different brands of metronidazole tablets marketed in Saudi Arabia: A comparative study. *International Journal of Research in Pharmaceutical and Nano Sciences*. **2020**; 9(6): 318-327. <https://doi.org/10.36673/IJRPNS.2020.v09.i06.A34>
15. Nabila A. Kheder, Dalia. R. Emam and **Hissana Ather**. Synthesis, and antibacterial activities of some new heterocycles attached to pyridine carboxamide moiety of potential biological activity. *Heterocycles*. **2017**; 94(4): 665-675. <http://dx.doi.org/10.3987/COM-16-13610>
16. J. S. Yadav, P. Adi Narayana Reddy, **Hissana Ather**, A. Suman Kumar, A. R. Prasad, B. V. Subba Reddy, Ahmad Al Khazim. Stereoselective Synthesis of (4S,6S)-6-Hydroxy-4undecanolide: A Pheromone of the Giant White Butterfly Idea Leuconoe. *Synthesis*. **2012**; 44(4): 579-584. <http://dx.doi.org/10.1055/s-0031-1289671>
17. J.S.Yadav, N Mallikarjuna Reddy, P Adi Narayana Reddy, **Hissana Ather**, A.R.Prasad. Stereoselective total synthesis of (-)-Colletol by Prins cyclisation. *Synthesis*. **2010**; (9): 1473-1478. <http://doi.org/10.1055/s-0029-1218679>
18. J.S.Yadav, **Hissana Ather**, N. Venkateswar Rao, M. Sridhar Reddy, A.R.Prasad. Stereoselective synthesis of (-)-Pironetin by an iterative Prins cyclisation and reductive cleavage strategy. *Synlett*. **2010** (8): 1205-1208. <http://doi.org/10.1055/s-0029-1219810>
19. J.S.Yadav, **Hissana Ather**, K. Uma. Gayathri, N. Venkateswar Rao, A.R.Prasad. Stereoselective formal Synthesis of Herbarumin III via Prins cyclisation. *Synthesis*. **2008**; (24): 3945-3950. <http://doi.org/10.1055/s-0028-1083249>
20. J.S.Yadav, K. Uma Gayathri, **Hissana Ather**, Hafeez ur Rehman, A.R.Prasad. Utility of semicarbazones as ligands in newly made palladium complex for facile Suzuki homocoupling reaction of alkyl and aryl boronic acids. *Journal of Molecular Catalysis A: Chemical*. **2007**; 271(1-2): 25-27. <https://doi.org/10.1016/j.molcata.2007.01.012>
21. J.S.Yadav, **Hissana Ather**, P. Purushothama Rao, R. Srinivas Rao, K. Nagaiah, A.R.Prasad. Sulphamic acid: An efficient, cost-effective and recyclable solid acid catalyst for three-component synthesis of homoallylic amines. *Catalysis Communications*, **2006**; 7(10): 797-801. <https://doi.org/10.1016/j.catcom.2006.02.017>

