

Faculty Portfolio

Dr. Sabina Yasmin

Assistant Professor
Department of Pharm. Chemistry
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Education:

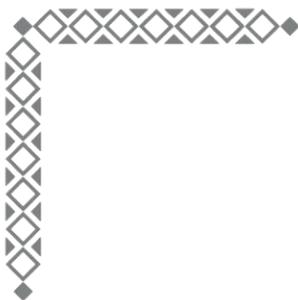
Year of Graduation	Qualifications (Specializations if any)	University/College, Country
2018	Ph.D. (Pharmaceutical Chemistry)	BIT Mesra, Ranchi, India
2011	M. Pharmacy (Pharmaceutical Chemistry)	BIT Mesra, Ranchi, India
2009	B. Pharmacy (Pharmaceutical Sciences)	BIT Mesra, Ranchi, India

Professional experience:

Year	Positions	University/College, Country
Dec, 2018- Present	Assistant Professor	College of Pharmacy, King Khalid University, KSA
April, 2017- Nov 2018	Assistant Professor	M.M. College of Pharmacy, India
April 2012-Dec 2016	Research Fellow	BIT Mesra, Ranchi, India
Aug 2011-March 2012	Senior Research Fellow	ICMR, India

Community service activities

Year	Positions & Name of the Project	University/Company, Country
19 March 2023	Member of the organizing committee for the awareness campaign "Your medication"	King Khalid University, KSA
March 18-19 2016	Organized and participated Antiviral Research and Therapy workshop	BIT Mesra, Ranchi, India



Academic/research awards:

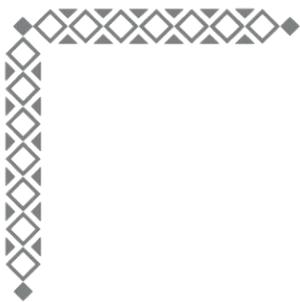
Year/Duration of Award	Name of the Award	University/Company, Country
2020	Guest Speaker in one day international webinar Program on Pharmaceutical Intelligence - Current Challenges and future direction of COVID-19	Bharat Technology, India
2016	Best paper award	BIT Mesra, Ranchi, India
2001	State topper Award	Jharkhand Board , India
2011	ICMR SRF-Fellowship	ICMR, India
2012-2014	UGC- BSR-Fellowship	UGC, India
2014-2016	SRF-MANF	UGC ,India

Workshops/ Trainings:

Year	Title	University/Company, Country
2023	A rational Design of PPAR modulators	Sharda University, India
2019	14 th Annual Research day of the health sciences	King Khalid University
2020	Certification: 3 day online FDP programme on ‘ Advancement of digital education in Pandemic Era	Maharana Pratap College of pharmacy, India

Research interests:

- *In-Silico* prediction and designing of inhibitors
- Protein Structure Prediction
- Molecular Docking & Drug Designing
- Pharmacophore mapping and Virtual Screening
- Drug Discovery and Development
- Design of molecules towards various diseases
- Synthesis
- Purification by Crystallization
- Characterization by X-Ray, NMR and Mass



Teaching experience:

- Pharmaceutical Organic Chemistry, at King Khalid University, 2017-2020 (Pharm. D. and B. Pharm)
- Medicinal Chemistry-1, at King Khalid University, 2017-2020 (Pharm. D. and B. Pharm)
- Analytical Chemistry -1, at King Khalid University, 2017-2020 (Pharm. D. and B. Pharm)
- Medicinal Chemistry-3, at King Khalid University, 2019 (B. Pharm)
- Biochemistry at MM University 2017-2018 (B. Pharm, Pharm .D)
- Organic and Medicinal Chemistry at MM University 2017-2018 (B. Pharm, Pharm .D)

Publications: (Include recent 5-10 publications)

1. Shilkar, Deepak, Mohd Usman Mohd Siddique, Silvia Bua, **Sabina Yasmin**, Mrunali Patil, Ajay Kumar Timiri, Claudiu T. Supuran, and Venkatesan Jayaprakash. "Carbonic anhydrase inhibitory activity of phthalimide-capped benzene sulphonamide derivatives." *Journal of Enzyme Inhibition and Medicinal Chemistry* 38, no. 1 (2023): 2235089.
2. Tayal, Rohit, **Sabina Yasmin**, Samrat Chauhan, Thakur Gurjeet Singh, Monika Saini, Eman Shorog, Maryam M. Althubyani et al. "Are Proton Pump Inhibitors Contributing in Emerging New Hypertensive Population?." *Pharmaceuticals* 16, no. 10 (2023): 1387.
3. Hussain, Afzal, Obaid Afzal, **Sabina Yasmin**, Nazima Haider, Abdulmalik Saleh Alfawaz Altamimi, Fleming Martinez, William E. Acree Jr, and Mohhammad Ramzan. "Preferential Solvation Study of Rosuvastatin in the {PEG400 (1)+ Water (2)} Cosolvent Mixture and GastroPlus Software-Based In Vivo Predictions." *ACS omega* 8, no. 14 (2023): 12761-12772.
4. Ashique, Sumel, Obaid Afzal, **Sabina Yasmin**, Afzal Hussain, Mohammad A. Altamimi, Thomas J. Webster, and Abdulmalik SA Altamimi. "Strategic nanocarriers to control neurodegenerative disorders: concept, challenges, and future perspective." *International Journal of Pharmaceutics* (2023): 122614.
5. Alshahrani, Saad M., Mustafa Fahem Albaghdadi, **Sabina Yasmin**, Manal E. Alosaimi, Abdullah Alsalhi, Mohammed Algarni, Bassem F. Felemban, Ali Abdulhussain Fadhil, and Ibrahim Mourad Mohammed. "Green processing based on supercritical carbon

- dioxide for preparation of nanomedicine: Model development using machine learning and experimental validation." *Case Studies in Thermal Engineering* 41 (2023): 102620.
6. Alshahrani, Saad M., Jalal Uddin, **Sabina Yasmin**, Sameer Alshehri, and Amal M. Alsubaiyel. "Prediction of novel ionic liquids' surface tension via Bagging KNN predictive model: Modeling and simulation." *Journal of Molecular Liquids* 368 (2022): 120748.
 7. Abourehab, Mohammed AS, Ahmed M. Shawky, Kumar Venkatesan, **Sabina Yasmin**, Amal M. Alsubaiyel, and Kareem M. AboRas. "Efficiency Development of Surface Tension for Different Ionic Liquids through Novel Model of Machine Learning Technique: application of in-thermal engineering." *Journal of Molecular Liquids* (2022): 120391.
 8. Abourehab, M.A., Alshehri, S., Huwaimel, B., Alamri, A.H., Alzhrani, R.M., Alobaida, A., Kotb, H., Alsubaiyel, A.M., **Yasmin, S.**, Venkatesan, K. and Al-Shati, A.S., 2022. Enhancing drugs bioavailability using nanomedicine approach: Predicting solubility of Tolmetin in supercritical solvent via advanced computational techniques. *Journal of Molecular Liquids*, 365, p.120103.
 9. Venkatesan, Kumar, Nazima Haider, Mohammad Yusuf, Afzal Hussain, Obaid Afzal, **Sabina Yasmin**, and Abdulmalik SA Altamimi. "Water/transcutol/lecithin/M- 812 green cationic nanoemulsion to treat oxytetracycline contaminated aqueous bulk solution." *Journal of Molecular Liquids* 357 (2022): 119154.
 10. Aljurbui, Shaya Jubran, Afzal Hussain, Mohammad Yusuf, Mohhammad Ramzan, Obaid Afzal, Basmah Almohaywi, **Sabina Yasmin**, and Abdulmalik Saleh Alfawaz Altamimi. "Impact of Composition and Morphology of Ketoconazole-Loaded Solid Lipid Nanoparticles on Intestinal Permeation and Gastroplus-Based Prediction Studies." *ACS omega* 7, no. 26 (2022): 22406-22420.

Conference attendance/presentations: (Include recent 3 presentations)

1. A rational design of PPAR modulators : 2023 ,Sharda University: India
2. *In silico* assisted design and ADMET properties prediction of some novel derivatives of 2,4 Thiazolidinediones: A step towards development of powerful modulators for PPAR γ , March 2016,BIT Mesra India
3. Design and synthesis of PPAR modulators as possible antidiabetic agents, 14 th Annual Research day of the health sciences ,April 2019