

CURRICULUM VITAE

Dr. Fatima Naaz

ICMR-RA

Department of Chemistry

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Brief academic Profile

- **Ph.D. (awarded)- 2019**, Department of Pharmaceutical chemistry, Jamia Hamdard, New Delhi, India
- **M. Pharmacy (Pharmaceutical Chemistry)- 2014**, Guru Nanak Dev University, Amritsar – India with 84%.
- **Bachelor of Pharmacy- 2012**, Punjab Technical University-Jalandhar, India with 75%
- **10+2 (Biology, Physics, Chemistry)- 2008**, CBSE, D.A.V. Cent. Senior Secondary Public School, Malerkotla (Punjab) with 74 %
- **SSC-2006**, CBSE, D.A.V. Cent. Senior Secondary Public School, Malerkotla (Punjab) with 63.3%

Experience

- **3 years**
- **ICMR-RA** - 1,2,4-triazole, 1,3,4-oxadiazole and 1,3,4-thiadiazole based Topsentin analogues as dual inhibitors of COX-2/5-LOX acting anti-inflammatory agents for cancer therapy.

Research Projects

- ICMR-RA - 1,2,4-triazole, 1,3,4-oxadiazole and 1,3,4-thiadiazole based Topsentin analogues as dual inhibitors of COX-2/5-LOX acting anti-inflammatory agents for cancer therapy.
- Ph.D. – Design and Synthesis of Novel Indole based Anti-tubulin Agents.
- M.Pharm – 4-Aryl/Heteroaryl-4H-Fused Pyrans as Antimicrobial Agents: Synthesis, Biological Evaluation and SAR Studies.

Training

- **One month** industrial training in Formulation and Research Department from **Panacea Biotec Ltd.** Lalru, Punjab (2011)

Academic achievements

- ✓ Awarded with ICMR-RA Fellowship-2019 to 2022
- ✓ Awarded with ICMR-SRF Fellowship-2019
- ✓ Recipient of Jamia Hamdard - Silver Jubilee Research Fellowship 2017.
- ✓ Recipient of Research Promotional Grant fellowship-2016.
- ✓ Nomination for Best Oral Presentation- International Congress of society for ethnopharmacology (Jamia Hamdard), India-2020.
- ✓ Best Poster Presentation award- International Conference at Delhi Institute of Pharmaceutical Science and Research (DIPSAR), Delhi-2018.
- ✓ Best Oral Presentation award- International Conference of Pharmacy at Lovely Professional University, Punjab-2017.

- ✓ 3rd Topper in Guru Nanak Dev University during M. Pharmacy.
- ✓ Qualified graduated pharmacy aptitude test (GPAT) with 1346 rank-2013.
- ✓ Registered pharmacist under Act 1948 -2013.

Patents

➤ Syed Shafi, Arif Khan, **Fatima Naaz**, Intzar Ali “*Diversity oriented synthesis of novel capsaicinoids thereof for anti-cancer activity and potentiating activity of ciprofloxacin applied*” in Intellectual Property Indian; with application no.: 202111046805.

List of Publications

Research papers:

1. Arif Khan, **Fatima Naaz**, Rafia Basit, Deepak Das, Piyush Bisht, Majeed Shaikh, Bilal Ahmad Lone, Yuba Raj Pokharel, Qazi Naveed Ahmed, Shazia Parveen, Intzar Ali, Shashank Kumar Singh, Gousia Chashoo, and Syed Shafi. 1,2,3-Triazole Tethered Hybrid Capsaicinoids as Antiproliferative Agents Active against Lung Cancer Cells (A549). ACS Omega. **2022** doi: 10.1021/acsomega.2c03325. (Impact factor 4.13)
2. **Fatima Naaz**, Faiz Ahmad, Bilal Lone, Arif Khan, Kalicharan Sharma, Intzar Ali, M. Shahar Yar, Yuba Pokharel, Syed Shafi, Apoptosis inducing 1,3,4-oxadiazole conjugates of Capsaicin: Their *in vitro* anti-proliferative and *in silico* studies. “ACS Medicinal Chemistry Letters, **2021**. (Impact factor 4.2).
3. **Fatima Naaz**, Arif Khan, Anchala Kumari, Intzar Ali, Faiz Ahmad, Bilal Ahmad Lone, Nazia Ahmad, Inshad Ali Khan, Vikrant Singh Rajput, Abhinav Grover, Syed Shafi. “1,3,4-oxadiazole conjugates of capsaicin as potent NorA efflux pump inhibitors of Staphylococcus aureus”. *Bioorganic Chemistry* **2021**, 113, 105031. (Impact factor 5.3).
4. **Fatima Naaz**, Faiz Ahmad, Bilal Ahmad Lone, Yuba Raj Pokharel, Neeraj Kumar Fuloria, Shivkanya Fuloria, Manickam Ravichandran, Lalitha pattabhiraman, Syed Shafi, M. Shahar Yar, Design and synthesis of newer 1,3,4-oxadiazole and 1,2,4-triazole based Toposentin analogues as anti-proliferative agent targeting tubulin *Bioorganic Chemistry* 2019. (Impact factor 5.3).
5. **Fatima Naaz**, M. C. Preeti Pallavi, Syed Shafi, Naveen Mulakayala, M. Shahar Yar, H. M. Sampath Kumar. “1,2,3-triazole tethered Indole-3-glyoxamide derivatives as multiple inhibitors of 5-LOX, COX-2 & Tubulin: Their anti-proliferative & anti-inflammatory activity” *Bioorganic chemistry* **2018**, 81, 1–20 (Impact factor 5.3).
6. Sridhar, **N. Fatima**, A. Intzar, K. R. S. Prasad, K. S. durga, R. B. V. Mandava, S. Syed, “Synthesis and anti-microbial activity of 1,2,3-triazole tethered nitroguaiacol ethers” *Russian Journal of General Chemistry* 2019. (Impact factor 0.7).
7. Surya Pratap, **Fatima Naaz**, Srinivas Reddy, Kunal Kumar Jha, Kalicharan Sharma, Dinakar Sahal, N. Devanna, H. M. S. Kumar, Vandana, Kailash Pandey, Syed Shafi. “Anti-proliferative and anti-

malarial activities of spiroisoxazoline analogues of artemisinin” *Archiv der Pharmazie* **2018** (Impact factor 5.1).

8. Syed Shafi, Mohammad Islamuddin, Garima Chouhan, Intzar Ali, **Fatima Naaz**, K. C. Sharma, M. S. Zaman, Rajendra Prasad, Farhat Afrin. “ β -nitrostyrenes as potential anti-leishmanial agents” *Frontiers in Microbiology* **2016**, doi: 10.3389/fmicb.2016.01379. (Impact Factor 5.2).
9. P. Surya Pratap, Syed Shafi, **Fatima Naaz**, N. Devanna. “Chemical methods for the conversion of Prednisolone to 11- β -hydroxy-1,4-androstadiene-3,17-dione” *Journal of Chemical Sciences* **2015**, 127, 1827-1830. (ISSN NO: 0253-4134) (Impact Factor 1.7).
10. Ramandeep Kaur, **Fatima Naaz**, Sahil Sharma, Samir Mehndiratta, Manish Kumar Gupta, Preet Mohinder Singh Bedi, Kunal Nepali. “Screening of a library of 4-aryl/heteroaryl-4H-fused pyrans for xanthine oxidase inhibition: synthesis, biological evaluation and docking studies” *Medicinal Chemistry Research* **2015**, doi: 10.1007/s00044-015-1382-023 (Impact Factor 2.3).

Review papers

1. Prasanna Anjaneyulu Yakkala, **Fatima Naaz**, Syed Shafi, Ahmed Kama “PI3K and tankyrase inhibitors as therapeutic targets in colorectal cancer” 2024 Expert Opinion on Therapeutic Targets (impact factor 4.56).
2. **Fatima Naaz**, Kumari Neha, Md Rafi Haider, Syed Shafi, "INDOLE DERIVATIVES, VERSATILE TUBULIN INHIBITORS (2010-2020): THEIR SYNTHESIS AND SAR" *Future Medicinal Chemistry*, **2021**. (Impact factor 4.2).
3. **Fatima Naaz**, Md Rafi Haider, Syed Shafi, M. Shahar Yar, “Anti-tubulin agents of natural origin: Targeting Taxol, Vinca, and Colchicine binding domains” *European Journal of Medicinal Chemistry* **2019**. (Impact factor 6.7).

International Conferences

1. **Presented oral presentation** on “Apoptosis inducing 1,3,4-oxadiazole conjugates of Capsaicin: Their *in vitro* anti-proliferative and *in silico* studies” in *International Conference on Recent Trends in Chemistry of Materials 2021 (ICRTCM 2021)* held at Department of Chemistry, ICFAI Science School, The ICFAI University, Tripura, 799210, India on September 20-24, 2021.
2. **Presented Oral Presentation** on “Marine natural products inspired diversity oriented synthesis of various topoisomerase II based analogues” in *International Congress of society for ethnopharmacology* held at Jamia Hamdard, India on 15-17th February, 2020.
3. **Presented poster presentation** on “1,2,3-Tethered Indole-3-Glyoxamide Derivatives as dual inhibitors of 5-LOX and Tubulin” in *International Conference on Challenges for Global Competitiveness of Ayush and Natural Products and IASTAM oration and Award Function* held at DIPSA, New Delhi on **2-4th February 2018**.
4. **Presented poster presentation** on “Design, Synthesis and Evaluation of Capsaicin Analogue” in *International Conference on Emerging Trends in Drug Development and Natural-Products* organised by University of Delhi from **12-14th January 2018**.
5. **Presented E-Poster presentation** on “Synthesis of New Capsaicin containing Oxadiazole Derivatives as Anti-inflammatory and Anti-proliferative agents” in *Pharma Ratan Award Distribution and International Pharmaceutical Conference* held at Crowne Plaza, Rohini, New Delhi, India on **26th November 2017**.

6. **Delivered oral presentation** on “Synthesis and Biological Evaluation of Capsaicin Embedded with 1,3,4-oxadiazole moiety” in *International Conference of Pharmacy* held on **7-8th April 2017**, at lovely Professional University, Phagwara, Punjab.
7. Participated in India International Science Festival on **7-11th December 2016** at CSIR-NPL, New Delhi.

National Conferences

1. Participated in 3rd one day national conference on New Horizons in Drug Discovery and Development (NHDDD-3) THE ROLE OF NMR in Department of Pharmaceutical Chemistry, SPER, Jamia Hamdard, New Delhi, on 18th February, 2019.
2. **Presented poster** on “1,2,3-triazole tethered Indole-3-glyoxamide derivatives as multiple inhibitors of 5-LOX, COX-2 & Tubulin: Their anti-proliferative & anti-inflammatory activity” in Current Trends in Translational Medicine and Pharmacovigilance: Stress on Skill Development on **5th - 6th October, 2018** at Jamia Hamdard, New Delhi.
3. Participated in “*1st Post-doctoral Research Conclave 2018 (PDRC 2018)*” held at Jamia Hamdard, New Delhi on **April 12, 2018**.
4. Participated in “*Two days workshop on Molecular Docking, Virtual Screening and Biological Discovery*” organised by Jamia Hamdard, New Delhi on **12-13th march 2018**.
5. Attended National Symposium on “*Research Methodology*” organised by Jamia Hamdard, New Delhi on **7th march 2018**.
6. Attended Symposium on “*The 2017 Nobel Prizes: what got them the world’s most prestigious award*” held on **28th November 2017** at Jamia Hamdard, New Delhi.
7. **Presented poster** on “Synthesis and Anti-microbial Activity of 1,2,3 triazole tethered Nitroguaiacol Ether” in 3rd one day National Seminar on Current Regulations on Herbal Drugs and Food Supplements held at School of Pharmaceutical Education & Research, Jamia Hamdard, New Delhi on **16th may 2017**.
8. Attended a lecture on *New Frontier in Pharmaceutical Technology* on **5th May 2017** by “Mr Rajesh Agrawal” (AGM, Modi-Mundipharma R&D Centre) at School of Pharmaceutical Education & Research, Jamia Hamdard, New Delhi.
9. Attended *National Seminar* on Biomedical Engineering, Food and Fermentation Technology on **28th March 2017** at Jamia Hamdard, New Delhi.
10. **Presented poster** on “Semi-synthetic modification of artemisinin and their biological evaluation” in *National Symposium on Impact of Emerging Toxic Chemicals on Humans, Plants, Diseases and Sustainable Development and 36th Annual session of the Academy of environmental biology*, Jamia Hamdard, New Delhi, on **25-27, November 2016**.
11. Attended *One Day Flow Cytometry Orientation Program* on **9th September 2016** at BD-JH FACS Academy, New Delhi.
12. **Presented poster** on “Spiro-isoxazoline derivatives of artemisinin” in *One day symposium on Current Trends in Drug Discovery Research in India*, held at Shiv Nadar University, Noida on **11th April 2015**.
13. Attended national conference on “Opportunities & Challenges in Clinical Research and Pharmacovigilance” by “*Pioneering Healthcare and Clinical research*” held at Rayat and Bahra Institute of Pharmacy, Mohali Campus on **25th February, 2010**.

(Dr. Fatima Naaz)