Name: Dr. Seema Kirar

Designation: WOSA-fellow (Project scientist-I)

Date of joining: 12/07/2023

Email ID: seemakirar012@gmail.com, seema.kirar@ciab.res.in

Responsibility at CIAB: Research in various fields such as chemical synthesis, nanomaterials, biomaterials and bioengineering. Additionally, assisting the Ph. D scholars and trainees etc.

Educational qualification:

S.No.	Description	Board/University	Year	%/CGPA
1	PhD	NIPER, S.A.S. NAGAR	2019	9.17
2	M. Tech (Pharm.)	NIPER, S.A.S. NAGAR	2013	9.18
3	B. Pharm	Barkatullah University Bhopal MP	2011	72%

Work experience

Research Associate, CIAB, Mohali, Punjab, from Feb. 2021 to 2 July 2023

Lecturer at University of Kota, Kota, Rajasthan from- Sept. 2019- Jan 2021

Awards/Honours/Recognitions

- Awarded with Women Scientists Scheme-A (WOSA-DST) in 2022
- Received **DBT-SRF** July 2018
- Received **DBT-SRF** July 2016
- Received **DBT-JRF** July 2014
- Qualified **CSIR-JRF-NET** June 2013, **AIR 39**
- Qualified **NIPER-JEE** June 2014, **AIR 2**
- Qualified **GATE** in Life sciences 2013
- Qualified **GATE** in Life sciences 2011
- Qualified **NIPER-JEE-2011** with AIR 210
- Qualified **GPAT** in 2011, AIR 779
- **Best oral presentation award** on ICRABR conference held at SSS-NIBE, Kapurthala, Jalandhar, 2023
- **Best poster award** at AsBIC9 conference held at NUS, Singapore, 2018
- **Best poster award** on 3rd CRIKC at CSIR-CSIO, Chandigarh, India, 2017
- **Best technical poster** award on 1st SEEC at CIAB, India 2017
- ICMR travels grant
- DST-SERB travel grant
- AsBIC9 Singapore travel grant
- NWC San Francisco USA travel grant

List of Publications

- ACS Sustainable Chemistry & Engineering 11 (12), 4568-4579
- Computational Biology and Chemistry,102, 2023, 107807
- ChemPhotoChem, 2023,7 (2) e202200172
- Journal of Porphyrins and Phthalocyanines, 2021, 25, 605-622
- J. Photochem. Photobiol. B. 2021, 220, 112209
- Nanomedicine: Nanotechnology, Biology and Medicine, 2021, 102368Bioorganic chemistry, 2020, 99, 103787
- RSC Advances, 2020, 10 (13), 76287634
- ACS Biomater. Sci. Eng. 2018, 4(2), 473–482
- ACS Appl. Bio Mater. 2019, 2, 10, 4202-4212
- Enzyme and Microb Technol. 2018, 118, 83–91
- J Org Chem. 2017, 82(18), 9350–9359
- ACS Sustainable Chem. Eng. 2017, 5(9), 7950–7960
- New J. Chem. 2016, 40, 724–731

Book chapters

J. Bhaumik, **S. Kirar**, J. K. Laha, Theranostic nanoconjugates of tetrapyrrolic macrocycles and their applications in photodynamic therapy, Book chapter no 22, Publisher: Springer, Book Title: Redox-Active Therapeutics, 2016, 509-524.

Patents

1. Lignin-based polypyrrole nanoformulations as highly effective antiviral agents against SARS-CoV-2. Indian provisional patent application no: 202111014735, Inventors: Bhaumik J, Vrati S, Reddy YN, Chandna S, Paul S, Kaur R, Agarwal S, Chandru S. and **Kirar S**. (full patent-2022)

2. Process for the production of nanofilm through agro-biomass derived lignin and applications thereof. Jayeeta Bhaumik, Saswata Goswami, **Seema Kirar**, Manali Singh, Devesh Mohne. (Provisional patent 2022)