



Centre: School of Natural Resources

Department: Pharmacy

Phone: 09440426884

Mail: sumathipoleboina@gmail.com

Personnel Web Page Link: Nil

Name : **Dr. Sumathi Poleboina**

Qualification : **M.S (Pharm), Ph.D**

PhD (Pharmacology & Toxicology): NIPER S.A.S Nagar, Mohali, Punjab; 2016-2022

M.S. (Pharm) (Pharmacology & Toxicology): NIPER, Guwahati, Assam; 2012-2014

B.Pharmacy: Kakatiya University, Warangal, Telangana; 2008-2012

Area of Interest/Specialization : **Pharmacology and Toxicology**

Experience : **3 years**

Awards and Honors

- **2023:** Received Best Oral Presentation Award in International Conference on Nanopharmaceuticals on neurological disorders (ICNAND23), IGNTU, Madhya Pradesh
- **2016-22:** Received *Research Fellowship (CSIR-SRF(NET))* for PhD studies in Pharmacology and Toxicology from NIPER-S.A.S Nagar
- **2012-14:** Received *Research Fellowship* for M.S (Pharm) in Pharmacology and Toxicology from NIPER-Guwahati
- **2015:** Qualified CSIR-NET (JRF) 2 times in Life Sciences
- **2015:** Qualified GATE EXAM in Life sciences
- **2014:** Qualified CSIR- NET (Lectureship) in Life Sciences
- **2012:** Qualified NIPER and GPAT

Research Projects

International Collaboration/Consultancy

List of Publications (All)

- Development of HFD-Fed/Low-Dose STZ-Treated Female Sprague-Dawley Rat Model to Investigate Diabetic Bone Fragility at Different Organization Levels.

Praveer Sihota, Ram Naresh Yadav, **Sumathi Poleboina**, Vishwajeet Mehandia, Sanjay Kumar Bhadada, Kulbhushan Tikoo, and Navin Kumar. *JBMR PLUS*. Volume-4, Issue-10, 2020 page no: e10379, *IF*-6.741, doi: 10.1002/jbm4.10379, Published.

- Selenium nanoparticles prevent diabetic osteoporosis by initiating osteoblast differentiation and bone formation via BMP-2/MAPKs/ β -catenin pathway. **Sumathi Poleboina**, Vaibhav G Sheth, Nisha Sharma, Praveer Sihota, Navin Kumar and Kulbhushan Tikoo. *Nanomedicine*, Volume-17, Issue-9, 2022, page no: 607-625, *IF*-5.307, doi: 10.2217/nnm-2021-0401, Published.
- Gold nanoparticles suppress RANKL induced osteoclastogenesis in RAW 264.7 cells by inhibiting NF- κ B signaling pathway and preventing Ovariectomy-induced bone loss in female SD rats. **Sumathi Poleboina** and Kulbhushan Tikoo *Nanomedicine: Nanotechnology, Biology, and Medicine* (Under review), Impact Factor (6.458). *Nanomedicine*.

Conferences

Abstract/Paper Presented in Conferences/Seminars

- Effect of Selenium nanoparticles and its molecular mechanism in Diabetic osteoporosis at international conference at IGNTU, Amarkantak, M.P, February 2nd to 4th 2023.
- Selenium nanoparticles promote osteoblast differentiation and bone formation in diabetes induced osteoporosis via BMP-2/MAPKs/ β -catenin pathway at 3rd National Biomedical Research Competition, AIIMS Rishikesh, December 6th to 10th 2021.

Recent Books/Book chapters/Monographs etc

Books

- Concepts of Clinical Research and Pharmacovigilance, ISBN: 978-93-92153-28-0, 2023.

Research Supervision

Administrative Responsibilities

Additional Information

- Life Member of The Association of Pharmaceutical teachers of India (APTI).