

Name: Dr. Tripti Mishra

Date of joining DBT-CIAB: 01/07/2022

Current Designation: Research Associate-II

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Educational Qualification:

- **2014-2019:** Ph.D (Natural Product and Medicinal Chemistry) [CSIR- Central Drug Research Institute, Lucknow, Uttar Pradesh, India]
- **2010-2012:** M.Sc (Organic Chemistry) [Ramjas College, University of Delhi, New Delhi, India]
- **2007-2010:** B.Sc (Chemistry Honors) [St. Xavier's College, Ranchi, Jharkhand, India]

Awards and Fellowships

- Qualified **CSIR-NET (JRF)**, 2013 (All India Rank **61**)
- Qualified **GATE**, 2013
- Received **Dr M M Dhar Memorial Distinguished Career Achievement Award** in Chemical Sciences 2020, CSIR-CDRI
- Received **Incentive Awards for Technology** 2020, CSIR-CDRI
- Received **Incentive award for Excellence in Research Publications** 2022, CSIR-CDRI

Publications:

1. Gupta S*, **Mishra T***, Varshney S, Vinita K, Khandelwal N, Rai P, Garg P, Dev K, Gupta A, Kumar D, Balaramnavar VM, Arya KR, Gayen JR, Narender T, Gaikwad AN. Coelogen ameliorates metabolic dyshomeostasis by regulating adipogenesis and enhancing energy expenditure in adipose tissue. *Pharmacological Research*, **2021**, 172,105776. (**Impact factor- 9.3**)
2. Chhabra S, **Mishra T**, Kumar Y, Thacker G, Kanojiya S, Chattopadhyay N, Narender T, Trivedi AK. Chebulinic Acid isolated from the fruits of *Terminalia chebula* specifically induces apoptosis in acute myeloid leukemia cells. *Phytotherapy Research*, **2017**, 31,1849-1857. (**Impact factor- 7.2**)
3. Prakash R*, **Mishra T***, Dev K*, Sharma K, Kuldeep J, John AA, Tripathi A, Sharma C, Arya KR, Kumar B, Siddiqi MI, Narender T, Singh D. Phenanthrenoid Coelogen isolated from *Coelogyne cristata* exerts osteoprotective effect through MAPK - Mitogen-Activated Protein Kinase signaling pathway. *Calcified Tissue International*, **2021**, 109, 32-43. (**Impact factor- 4.2**)
4. Sharma A*, **Mishra T***, Thacker G, Mishra M, Narender T, Trivedi AK. Chebulinic acid inhibits MDA-MB-231 breast cancer metastasis and promotes cell death through down regulation of SOD1 and induction of autophagy. *Cell Biology International*, **2020**, 44, 2553-2569. (**Impact factor- 3.9**)
5. Sharma K, Kumar S, Prakash R, Khanka S, **Mishra T**, Rathur R, Biswas A, Verma SK, Bhatta RS, Narender T, Singh D. Chebulinic acid alleviates LPS-induced

inflammatory bone loss by targeting the crosstalk between reactive oxygen species/NFκB signaling in osteoblast cells. *Free Radic Biol Med.*, **2022**, *194*, 99-113. **(Impact factor- 7.4)**

6. Negi P, Pandey N, Jyoti, **Mishra T**, Ahluwalia V, Singh U, Mishra BB. Isolation of Food Grade Dye from Flower Petals of *Butea monosperma* and Determination of Marker Compounds for Its Quantitative Analysis. *ACS Omega*. **2023**, *8*, 17740–17747. **(Impact factor- 4.1)**
 7. Sharma R, Srivastava T, Pandey AR, **Mishra T**, Gupta B, Reddy SS, Singh SP, Narender T, Tripathi A, Chandramouli B, Sashidhara KV, Priya S, Kumar N. Identification of natural products as potential pharmacological chaperones for protein misfolding diseases. *ChemMedChem*, **2021**, *16*, 2146-2156. **(Impact factor- 3.4)**
 8. Biswas A, Verma SK, Kumar S, **Mishra T**, Kumar M, Choudhury AD, Agrawal S, Sanap SN, Bisen AC, Mishra A, Narender T, Bhatta RS. Preclinical Pharmacokinetics and CYP Modulation Activity of Chebulinic Acid: A Potent Molecule Against Metabolic Disease. *Curr Drug Metab.* **2023** (Just accepted). **(Impact factor- 2.3)**
 9. Verma SK, Biswas A, Saxena S, Kumar M, Mishra A, Choudhury AD, **Mishra T**, Rais N, Narender T, Bhatta RS. Development of a sensitive and selective bioanalytical method of chebulinic acid by liquid chromatography-electrospray tandem mass spectrometry and its pharmacokinetic application. *Separation Science Plus*, **2023**, *6*, 2200125. **(Impact factor- 1.1)**
 10. Saima, Aditya, **Mishra T**, Banik BK. Water as green solvent for the Carbon-Nitrogen bond formation. *Current Organic Chemistry*, **2022**, *26*, 1969-1991. **(Impact factor- 2.6)**
- (* denotes equal contribution)

Abstracts/Posters (presented in national/international conferences):

- Presented a poster entitled “**Novel xanthone derivatives from the aerial parts of *Swertia paniculata***” at RABMC-2022 held at NIPER, Mohali, India on 19.11.2022
- Delivered Oral Presentation on “**Chebulinic acid isolated from the fruits of *Terminalia chebula* specifically induces apoptosis in acute myeloid leukemia cell**” at DDNPTM-2018, held at NIPER- Mohali, India from 15-17 November 2018

Patent and License of Product

- An International patent entitled “**Chebulinic acid and its enriched fraction from the fruits of *Terminalia chebula* for the management of Benign Prostatic Hyperplasia (BPH) and its purification and preparation thereof**” has been published on 17.03.2022 (International application no.: **PCT/IN2021/050898**; International publication no.: **WO 2022/054100 A1**)
- A licence agreement has been signed between **CSIR-CDRI** and **Lumen Marketing Company**, Chennai on “**Standardized fraction enriched with compound N-012-0001 for the management of Benign Prostatic Hyperplasia**” on 17.02.2019