

Dr. Nisha Sahu

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Education

- **M.Sc. Zoology** – Guru Ghasidas Vishwavidyalaya, Bilaspur, CG
- **Ph.D.** – Toxicology and Pharmacology laboratory, Department of Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur, CG
(Thesis Title: Therapeutic evaluation of propolis and naringenin against anti-tuberculosis drugs induced hepatorenal injury)
- **CG Set (Life Science)**

Work/Teaching Experience

- Govt. R.N.M. College Bhatgaon, Balodabazar, Chhattisgarh (Session 2018-19)
- Guru Ghasidas Vishwavidyalaya (University), Bilaspur, Chhattisgarh, (Session 2019-23)
- Govt. Pataleswar College, Masturi, Bilaspur (Session 2024- till date)

Research Experience

- **Jan 2014 to Feb 2019, Active member of following projects**
 - Anti-tuberculosis drugs induced hepatic abnormalities and its prevention by propolis [45-520/2013 (SR), 22-03-2013].
 - Chemical characterization of Indian propolis and evaluation of its therapeutic potential against hepatic cholestasis and cirrhosis induced by combined consumption of high fat diet and alcohol [BT/Bio-CARe /03/854/2010-11, 10-09-2012].
 - Safety evaluation and therapeutic potential of few medicinal plants: an in vivo approach [20-1/2012(BSR)/20- 12(3)/2012(BSR),30/10/2012].

Awards/Fellowships

- **Young Scientist Best Oral Presentation Award** on International Conference on Emerging Researches in Bioscience (Bilaspur C.G.) -2018.
- **International Young Scientist Best Oral Presentation Award** on 6th International Science Community Association (Pune)-2016.
- **Chhattisgarh Young Scientist Award in Biology** by Chhattisgarh Council of Science and Technology in March 2017 for outstanding work in the state.
- **UGC sponsored NON-NET** fellowship for junior research fellow provided only at university.

Research Publications

- **Sahu N, Rakshit S, Nirala SK, Bhadauria M. Naringenin protects hepato-renal tissues against antituberculosis drugs induced toxic manifestations by modulating Interleukin-6, Insulin like growth factor-1, biochemical and ultra-structural integrity.** Molecular Biology Report. 2022 Nov 16:1-13.
- **Bhaskar LV, Barman D, Ghanta MK, Jangde S, Meher B, Sahu N. A Meta-Analysis for Understanding the Role of the COMT Val158Met Variant in the Susceptibility to**

- Alcoholism.** African Journal of Alcohol and Drug Abuse (AJADA). 2024 Jun 30:24-36.
- Shit P, **Sahu N**, Ghanta MK, Ahire V, Jadhav RJ, Merchant N, Bhaskar LV. **IL-18 Gene Promoter Polymorphisms are Involved in Periodontal Disease: A Meta-Analysis.** Critical Reviews™ in Immunology. 2022;42(5)
 - Rakshit S, **Sahu N**, Nirala SK, and Bhadauria M. **Protective activity of purpurin against d-galactosamine and lipopolysaccharide induced hepato-renal injury by upregulation of heme oxygenase-1 in RBC degradation cycle.** Journal of Biochemical and Molecular Toxicology. 2022 Jul; e23168.
 - **Sahu N**, Mishra G, Chandra HK, Nirala SK, Bhadauria M. **Naringenin mitigates antituberculosis drugs induced hepatic and renal injury in rats.** Journal of traditional and complementary medicine. 2020 Jan 1;10(1):26-35.
 - **Sahu N**, Mishra G, Chandra HK, Nirala SK, Bhadauria M. **Propolis modulates cellular biochemistry, antioxidants, cytokine profile, histological and ultra-morphological status against antituberculosis drugs induced hepatic injury.** Asian Pacific Journal of Tropical Medicine. 2018 Nov 1;11(11):609.
 - Mishra G, Chandra HK, **Sahu N**, Nirala SK, Bhadauria M. **Ameliorative effect of Pergularia daemia (Forssk.) Chiov. leaves extract against anti-tuberculosis drugs induced liver injury in rats.** Asian Pacific Journal of Tropical Medicine. 2018 Sep 1;11(9):518.
 - **Sahu N**, Mishra G, Chandra HK, Nirala SK, Bhadauria M. **Ameliorative effect of naringenin against antituberculosis drugs induced alterations in hematological parameters of rats.** Asian Journal of Pharmaceutical and Clinical Research. 2018;11(11):253-5.
 - Mishra G, Chandra HK, **Sahu N**, Nirala SK, Bhadauria M. **Preliminarily phytochemical screening and in vivo safety evaluation of ethanolic extract of Hemidesmus indicus (Linn.).** Journal of Applied Pharmaceutical Science. 2018 Dec;8(12):072-9.
 - Mishra G, Chandra HK, **Sahu N**, Nirala SK and Bhadauria M (2018) **In vivo safety evaluation and choleretic activity of ethanolic extract of Pergularia daemia (Forsk.),** Asian Journal of Pharmacy and Pharmacology. 2018;4(4):462-66.
 - Chandra HK, Mishra G, **Sahu N**, Nirala SK, Bhadauria M. **Effect of rutin against high-fat diet and alcohol-induced alterations in hematological variables of rats.** Asian Journal of Pharmaceutical and Clinical Research. 2018; 11:186-9.
 - **Sahu N**, Rakshit S, Shukla PK, Nirala SK, Bhadauria M. **Ameliorative effect of propolis against antituberculosis drugs induced renal injury via modulating structural and functional components: Biochemical, histopathological, and ultrastructural evidences.** Biotechnic and Histochemistry. **Under Review.**

Book chapter:

- **Sahu N**, Bhadauria M. First line antituberculosis drugs. Recent development in biological sciences. 2023 (pp. 188-212). Shaswat Publication. India. 978-81-323-19084-37-1.
- **Sahu N**, Rakshit S, Bhaskar LV. Risk factors and pathogenic mechanism— associated hepatocellular carcinoma. In Theranostics and Precision Medicine for the Management of Hepatocellular Carcinoma. 2022 (pp. 33-49). Academic Press. United States. 978-0-323-98806-3.

Professional membership

Life member of **Indian Society of Cell Biology** (Membership no. 2016068)