



## HARISHANKAR MAHTO

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Google scholar; <https://scholar.google.co.in/citations?user=-6nRKYsAAAAJ&hl=en&oi=ao>

Research gate; [https://www.researchgate.net/profile/Harishankar\\_Mahto](https://www.researchgate.net/profile/Harishankar_Mahto)

### CURRENT POSITION

Currently working as Need Based Assistant Professor at Department of Life Science, Binod Bihari Mahto Koylanchal University, Dhanbad, Jharkhand since Sep. 2024.

### EXPERIENCE

- ✓ I worked as Assistant Professor at Department of Zoology, St. Paul's College, Ranchi since May 2022 to 10<sup>th</sup> Sep. 2024.
- ✓ I worked as Assistant Professor at Post Graduate Department of Zoology, Ramchandra Chandravansi University, Bishrampur, Palamu since March 2021 to March 2022.
- ✓ I worked as Guest Faculty at Department of Herbal Resource Technology, Faculty of Forestry, Birsa Agricultural University, Ranchi from June 2019 to Jan 2021.
- ✓ I have more than two years research experience as Project Assistant under guidance of Dr. Aditya K. Panda, Center for Life Sciences, Central University of Jharkhand in work entitled "Role of Toll Like Receptors and identification of novel disease activity markers in Systemic Lupus Erythematosus" from November 2014 to July 2017.

### ACADEMIC SUMMARY

- ✓ Ph.D. Thesis entitled "Role of *Withania somnifera* (L.) Dunal on Modulation of Toll-Like Receptors in Systemic Lupus Erythematosus Patients: A Hospital Based Case Control Study" from Ranchi University in 2024
- ✓ Master of Biotechnology from Central University of Rajasthan, Ajmer in 2013 with 67%.
- ✓ Bachelor of Biotechnology from Ranchi University, Ranchi in 2011 with 75%.
- ✓ Intermediate of Science from Jharkhand Academic Council Ranchi, Ranchi in 2008 with 62%.
- ✓ Matriculation from Jharkhand Secondary Examination Board Ranchi, Ranchi in 2003 with 61%.

### AWARDS & ACHIEVEMENTS

- ✓ Got Young Faculty Award 2022 from International Academy of Science & Research, Kolkata
- ✓ Received Best Oral Presentation Award in International conference on Environment, Forestry & Sustainable Agriculture at St. Xavier's College, Ranchi since 2022.
- ✓ Qualified CSIR NET by December 2018 in Life sciences with rank of 55.
- ✓ First ranked in Ranchi University Ph.D. entrance test hold since 2017.
- ✓ Completed Online course on "Virology I: How Viruses Work" from Columbia University, Columbia in 2013.

### PUBLICATIONS

(Citation-255; h index-6; i10 index-6)

#### BOOK CHAPTERS

- ✓ **Harishankar Mahto** and Dipa Mahato. "Human-Centric Biotechnological Interventions: A Pillar for Sustainable Agricultural Development in Industrial Crop Improvement." *Industrial Crops Improvement: Biotechnological Approaches for Sustainable Agricultural Development*. Cham: Springer Nature Switzerland, 2025. 205-226.

- ✓ Dipa Mahto, **Harishankar Mahto**, and Sanjana Kumari. "Medicinal and Aromatic Plant Cultivation and Sustainable Development." *Industrial Crops Improvement: Biotechnological Approaches for Sustainable Agricultural Development*. Cham: Springer Nature Switzerland, 2025. 135-153.
- ✓ **Harishankar Mahto**, and Dipa Mahato. "In Silico Characterization of Natural Products in Plants." *Biosynthesis of Natural Products in Plants: Bioengineering in Post-genomics Era*. Singapore: Springer Nature Singapore, 2024. 161-185.
- ✓ Dipa Mahato and **Harishankar Mahto**. "A Review on the Golden Plant Turmeric and Its Bioactive Compound Curcumin." *Biosynthesis of Bioactive Compounds in Medicinal and Aromatic Plants: Manipulation by Conventional and Biotechnological Approaches* (2023): 351-367.

## RESEARCH ARTICLES

- ✓ **Mahto, Harishankar**, Dipa Mahato, and Hanuman Prasad Sharma. "Phytoconstituent estimation and LC-MS studies of field grown *Withania somnifera* (L.) Dunal root extract in Jharkhand & Bihar." *Research Journal of Environment & Chemistry* 26(11) (2022); 135-141. [**Impact Factor:0.2**]
- ✓ Alhobeira, Hazza A., Raju K. Mandal, Saif Khan, Sajad A. Dar, **Harishankar Mahto**, Mohd Saeed, Mohd Wahid, Mohtashim Lohani, Mahvish Khan, and Shafiul Haque. "Link between MnSOD Ala16Val (rs4880) polymorphism and asthma risk is insignificant from sequential meta-analysis." *Bioinformation* 16, no. 11 (2020): 789.
- ✓ Pati, Abhijit, **Harishankar Mahto**, Sunali Padhi, and Aditya K. Panda. "ACE deletion allele is associated with susceptibility to SARS-CoV-2 infection and mortality rate: An epidemiological study in the Asian population." *Clinica Chimica Acta* (2020). [**Impact factor; 1.104**].
- ✓ **Mahto, Harishankar**, Abhijit Pati, Sushil K. Sahu, Hanuman Prasad Sharma, Archana Padhi, and Aditya K. Panda. "Association of MBL-2 gene polymorphisms with systemic lupus erythematosus: an updated meta-analysis and trial sequential analysis." *Lupus* 29(10) (2020): 1227-1237. [**Impact factor; 2.60**].
- ✓ **Mahto, Harishankar**, Rina Tripathy, Biswa Ranjan Meher, Birendra K. Prusty, Hanuman P Sharma Aditya K. Panda, and Bidyut K. Das. "TNF- $\alpha$  promoter polymorphisms (G-238A and G-308A) are associated with susceptibility to Systemic Lupus Erythematosus (SLE) and *P. falciparum* malaria: a study in malaria endemic area." *Scientific reports* 9, no. 1 (2019): 1-11. [**Impact factor; 3.998**].
- ✓ Khan, Saif, Raju K. Mandal, Abdulbaset Mohamed Elasbali, Sajad A. Dar, Arshad Jawed, Mohd Wahid, **Harishankar Mahto** et al. "Pharmacogenetic association between NAT2 gene polymorphisms and isoniazid induced hepatotoxicity: trial sequence meta-analysis as evidence." *Bioscience reports* 39, no. 1 (2019): BSR20180845. [**Impact factor; 2.510**].
- ✓ **Mahto, Harishankar**, Rina Tripathy, Bidyut K. Das, and Aditya K. Panda. "Association between vitamin D receptor polymorphisms and systemic lupus erythematosus in an Indian cohort." *International journal of rheumatic diseases* 21, no. 2 (2018): 468-476. [**Impact factor; 1.98**].
- ✓ **Mahto, Harishankar**, H.P.Sharma and A. K. Panda. "TLR9 (rs187084) polymorphism is neither under selection pressure and nor predisposed to systemic lupus erythematosus." *Lupus* 27, no. 3 (2018): 520-521. [**Impact factor; 2.60**].
- ✓ Panda, Aditya K., and **Harishankar Mahto**. "Higher prevalence of the TNF- $\alpha$  G-308A heterozygous genotype in a South Indian population." *International journal of clinical oncology* 22, no. 4 (2017): 801-802. [**Impact factor; 2.538**].
- ✓ Areeshi, Mohammed Y., Raju K. Mandal, Naseem Akhter, Sajad A. Dar, Arshad Jawed, Mohd Wahid, **Harishankar Mahto**, Aditya K. Panda, Mohtashim Lohani, and Shafiul Haque. "A meta-analysis of MBL2 polymorphisms and Tuberculosis risk." *Scientific reports* 6 (2016): 35728. [**Impact factor; 3.998**].

- ✓ Panda, Aditya K., Bidyut K. Das, Abhinash Panda, Rina Tripathy, Sarit S. Pattnaik, **Harishankar Mahto**, Sylviane Pied, Sulabha Pathak, Shobhona Sharma, and Balachandran Ravindran. "Heterozygous mutants of TIRAP (S180L) polymorphism protect adult patients with Plasmodium falciparum infection against severe disease and mortality." *Infection, Genetics and Evolution* 43 (2016): 146-150. [**Impact factor; 2.611**]

## DISSERTATION WORKS

- ✓ Purification and functional characterization of Oxacillinase through *Acinetobacter baumannii*. at Central University of Rajasthan, Ajmer.
- ✓ Callus induction through leaves of *Terminalia arjuna* at Bio-sky research laboratory, Ranchi.

## CURICULAR ACTIVITY

### Professional trainings:

- ✓ Guru Dakshita 8<sup>th</sup> Faculty Induction Programme from UGC HRDC, Ranchi University, Ranchi by January 2022.
- ✓ Faculty development programme on “Entailing vitality of ICT in capacity building of Faculties” from Mahatma Hansraj Faculty Development Centre by August 2018.
- ✓ Foldscope workshop for teachers and students of aspirational districts of Jharkhand from Birla Institute of Technology, Mesra, Ranchi by October 2018.
- ✓ National workshop on Computational Tools for Genomics and Proteomics Data Analysis from ICAR-NBAIM, Mau, Uttar Pradesh by 2017.

### Presentations:

- ✓ World Environment Summit 2020 organized by Environment and social development association, 2020
- ✓ 106<sup>th</sup> National conference of Indian Science Congress Association 2019.
- ✓ National Seminar on Challenges and Opportunities in Life Sciences, Central University of Jharkhand, Ranchi, 2018
- ✓ International Conference on Advances in Environment and Agricultural Biotechnology, St. Xavier's College, Ranchi, 2018.
- ✓ 104<sup>th</sup> National conference of Indian Science Congress Association 2017.
- ✓ International conference on Human Implication in Biotechnology, Central University of Bihar, Patna in 2016.
- ✓ National conference on OMICS, Central University of Rajasthan, Ajmer in 2012.

## MEMBERSHIPS

- ✓ Member of Indian Science Congress Association
- ✓ Member of National Academy of Young Scientist
- ✓ Member of We The Microbiologist (WTM)

## TECHNICAL SKILLS

- ✓ Expertise in techniques used in Biochemistry, Molecular-biology & Cell Biology, i.e. PCR, Western Blotting, Spectrophotometry etc.
- ✓ Expertise to use
  - ❖ Bioinformatics tools
  - ❖ Comprehensive meta-analysis (CMA)
  - ❖ Trial sequential analysis (TSA)
  - ❖ Statistical tools using Graph Pad
  - ❖ Endnote referencing tool

**RESEARCH INTEREST**

Immuno-genetics of Infectious Diseases, Phytochemistry, Plant breeding & genetics

**PERSONAL DETAILS**

Sex: Male, Date of Birth: 21 July 1986,

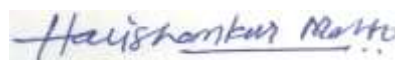
Marital status: Married

**DECLARATION**

I do hereby confirm that the information furnished above is true to the best of my knowledge and belief.

Place: RANCHI

Date: 30/01/2025

A handwritten signature in blue ink, reading "Haishankar Raut", is written over a light blue rectangular background.

Signature