

CURRICULUM-VITAE



Dr. Tarkeshwar Kumar (Assistant Professor)

M.Sc. (*Gold medalist, Ranchi University*), Ph.D. (*JNU, New Delhi*)

H.O.D., Department of Zoology, Panch Pargana Kisan College, Bundu

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ACADEMIC QUALIFICATIONS

- **Ph.D.** (2022): Molecular Medicine, Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi, India.
- **NET-SRF** (2018): Life Science, CSIR
- **NET-JRF** (2016): Life Science, CSIR (All India Rank secured- 57).
- **M.Sc.** (2014): Zoology (Gold medalist), PG Department of Zoology, Ranchi University, Ranchi, Jharkhand, India.
- **B.Sc.** (2010): Zoology (Honours), First rank, J.J. College, Vinoba Bhave University, Hazaribagh, Jharkhand, India.

AREAS OF INTEREST/SPECIALIZATION:

- Molecular Parasitology
- Molecular Ecology
- Gut- microbiome and Metabolic disorders.

RESEARCH GOAL

During my Ph.D. tenure, I have tried to obtain in-depth knowledge in designing and implementing experiments to solve crucial research problems. I am fortunate to publish my research in top international peer-reviewed journals like *Plos Pathogens*, *Malaria Journal*, and *IJPSR*.

Therefore, I want to continue this research and am planning to work on *Malaria* and *Polycystic ovary Syndrome (PCOS)* which are the most common diseases in Jharkhand.

RESEARCH PROJECTS

Submitted Research Proposal in the **SERB-SURE**, Gov. of India; Dec 2023. “Elucidating the ameliorative role of *Mimusops elengi* concerning gut microbiome in polycystic ovary syndrome.”
(Reference No.: 132023007566)

ACADEMIC AND ADMINISTRATIVE EXPERIENCE:

- **Member** of the Multidisciplinary Multi-Institutional Collaborative Research Center (MMCRC) (February 2024)- Current: Ranchi University, Ranchi, Jharkhand-834008, India.
- **Program Officer** of National Service Scheme (NSS) (November 2023)- Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Nodal Officer/Institutional Coordinator** of Pradhan Mantri Uchchatar Shiksha Abhiyan (PM-USHA) (November 2023) Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Nodal Officer** of Data Capturing System (DCS) of NIRF (December 2023) Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Nodal Officer** of the e-Samarth portal (October 2023) Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Nodal Officer** of **Baseline Survey of State Higher Education Institution** (January 2023)- Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Nodal Officer** of **Admission /Admission In-Charge** (October 2022)- Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- Member of IQAC (July 2022)- Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Coordinator** of **Website Development and Maintenance Committee** (May 2022)- Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Assistant Professor** (March 2022)–Current: **Department of Zoology**, Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.

AWARDS & HONOURS:

- Gold medal for securing first rank first in M.Sc. Zoology, Ranchi University, Ranchi.
- Junior Research Fellowship (JRF) of the Council of Scientific and Industrial Research (CSIR), Government of India.
- Senior Research Fellowship, (SRF) of the Council of Scientific and Industrial Research, (CSIR), Government of India.

PUBLICATIONS

- **Kumar T**, Maitra S, Rai R, Priyanka, Maitra S, Tirkey N, and Kumari R. The dichotomy between probiotic lactic acid bacteria and *Plasmodium*: a promising therapeutic avenue. **Acta Tropica**. 2024, 107284. **IF: 2.7**
- **Kumar T**, Maitra S, Rahman A, Bhattacharjee S. A conserved Guided Entry of tail-anchored pathway is involved in the trafficking of a subset of membrane proteins in *Plasmodium falciparum*. **PLoS Pathogens**. 2021 Nov 15;17(11): e1009595 **IF: 7.464**
- Nayak A, Saxena H, Bathula C, **Kumar T**, Bhattacharjee S, Sen S, Gupta A. Diversity-oriented synthesis derived indole based spiro and fused small molecules kills artemisinin-resistant *Plasmodium falciparum*. **Malaria Journal**. 2021 Feb 17;20 (1):100. **IF: 3.469**
- Kumari B, **Kumar T**, Sinha MP and Kumar M. Effects of aqueous fruit extract of Haritaki (*Terminalia chebula*) on regulation of hypothyroidism. **Int J Pharm Sci & Res**, 2020; 11(11): 5783-87. **IF: 1.232**
- Kumari B, **Kumar T**, Sinha MP and Kumar M. Impact of aqueous fruit extract of Haritaki (*Terminalia chebula*) on immunological parameters of mammalian model (albino rats). **IJMER**, 2019; 8 (11):143-150.
- Mbengue A, Namdev P, **Kumar T**, Haldar K, and Bhattacharjee S. Next generation whole genome sequencing of *Plasmodium falciparum* using NextSeq500 technology in India. **bioRxiv** preprint first posted online Aug. 16, 2016; doi: <http://dx.doi.org/10.1101/068676>.

SYMPOSIA/CONFERENCES/WORKSHOPS/ COURSES PARTICIPATED

- Contributed as a member of the Organizing Committee in the One-Day Sensitization workshop on “**Multidisciplinary Multi-Institutional Collaborative Research**” (Feb 2024) Organized by MMCRRC, R.U. in collaboration with IQAC, R.U., Ranchi University, Ranchi, Jharkhand, India.
- Participated in a two-day workshop on “**Promotion of Research and Development in the Field of Science and Technology among Higher Education Institution of Jharkhand**” (Feb 2024) organized by the Department of Higher and Technical Education, Government of Jharkhand at Dr. Shyama Prasad Mukherjee University, Ranchi, Jharkhand, India.
- Participated and successfully completed the “**UGC sponsored Online Refresher Course (RC) in Zoology**” for 14 days from 07.12.2023 to 20.12.2023 conducted by the UGC – Malaviya Mission Teacher Training Centre (Formerly UGC - Human Resource Development Centre), Madurai Kamaraj University, Madurai – 625 021, India.

- Participated and successfully completed the “**UGC-Sponsored Guru-Dakshta 12th Faculty Induction Programme (FIP)**” (August 2022) organized by UGC, Human Resource Development Centre (HRDC), Ranchi University, Ranchi, Jharkhand, India.
- Participated in the **International Conference on “Cancer Immunotherapy: Experimental Models and Approaches”** (April 2022) organized by the Department of Zoology in Association with IQAC, Jamshedpur Cooperative College, Jamshedpur, Jharkhand, India.
- Presented ePoster at **International Conference on Biotechnology for Sustainable Agriculture, Health and Environment (BSAEH-2020)** organized by MNIT, CDC, and BSIR, Jaipur, India.
- Presented Poster in **30th National Congress on Parasitology** (2019) organized by the Indian Society for Parasitology, ISP and Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi, India.
- Participated in the **training on safe handling of radioactive sources in research applications** (April 2019), organized by R.S.O., Jawaharlal Nehru University, New Delhi, India.
- Participated in **National Science Day “Science and Technology for Sustainable Future”** (2018) organized by the Department of Science and Technology and Jawaharlal Nehru University, New Delhi, India.
- Participated in the **International Vaccine Conference** (2017) organized by the International Centre for Genetic Engineering and Biotechnology, New Delhi, India.
- Participated in the “**International Workshop on Malaria Parasite Biology: Strategies for Drug and Vaccine Development**” (2017) organized by the International Centre for Genetic Engineering and Biotechnology, New Delhi, India.
- Participated in the **7th symposium on “Frontiers in Molecular Medicine”** (March 2017) organized by the Special Centre for Molecular Medicine Jawaharlal Nehru University, New Delhi, India.
- Participated in the **Workshop on Confocal Microscopy and Live cell imaging (basic and some advanced techniques)** (August 2016), organized by the Advanced Instrumentation Research Facility Jawaharlal Nehru University, New Delhi, India.

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