

CURRICULUM-VITAE



Dr. Tarkeshwar Kumar (Assistant Professor)

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

Department of Zoology, Panch Pargana Kisan College, Bundu

Ranchi University, Ranchi, Contact: **8287239668**

Email: tarkeshwarkoderma@gmail.com

ACADEMIC QUALIFICATIONS

- **Ph.D.** (2022) entitled “*Elucidation of the GET trafficking machinery and tail-anchored proteome in the human malaria parasite Plasmodium falciparum*”: 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 PROJECTS

Submitted Research Proposals in the:

- **ANRF**, Govt. of India.
- Seed Grant, RU, Ranchi.
- Research Proposal Grant, **JCSTI**, Jharkhand.

ACADEMIC AND ADMINISTRATIVE EXPERIENCE:

- **Coordinator** of Internal Quality Assurance Cell (**IQAC**) (26th August 2024)- Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **Course Coordinator** of Guru Dakshta 26th Faculty Induction Programme (FIP) 05/01/2026 to 01/02/2026, organized by UGC-Malaviya Mission Teacher Training Centre (**MMTTC**), Ranchi University, Ranchi.
- **Member** of the Committee for preparing the draft “**Examination Regulations**” in accordance with NEP 2020 (November 2025)- Current: Ranchi University, Ranchi, Jharkhand-834008, India.
- **Nodal Officer** of **Pay Fixation** (online portal) (July 2025)-Current: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.
- **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 Uchchar 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)- 26th July 2024: Panch Pargana Kisan College, Bundu, Ranchi University, Ranchi, Jharkhand-835204, India.

PUBLICATIONS

- Tirkey N, Lakra S, Kumari S, **Kumar T***. Phytochemical analysis of traditionally consumed edible leafy vegetables. **J. Med. Plants Stud.** 2026; 14(1): 293-296.
- **Kumar T***, Afrin S, Lakra T, Marandi M, Bharti N, Barla D, Tirkey A, Kumari S, Kumari M, Purohit T, Rajput D, Murmu N, and Kumari B. Morphometric and Meristic Study of Five Freshwater Fishes Available in the Hygienic Fish Market at Dhurwa, Ranchi, Jharkhand. **Int. J. Fauna Biol. Stud.** 2026; 13(1):14-22.
- **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 Jun 8; 257:107284 **IF: 2.7, Scopus/PubMed Indexed**
- **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, Scopus/PubMed Indexed**
- 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, Scopus/PubMed Indexed**
- 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, Embase Indexed**
- 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**, Halder 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>.
- Vishwakarma C, Shaheen H, Jehan F, Kumar S, Juyal S, Mahara P, Singh P, **Kumar T***. From Lens Protein to Redox Enzyme: Structural and Functional Landscape of ζ -Crystallin and its Homologues (Under Revision; **FEBS Journal** 2026) **IF: 4.2, Scopus/PubMed Indexed**

PATENTS PUBLISHED

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/ Country	Status
01	Smart Capsule Design for Targeted Drug Delivery and Real-Time Monitoring	Dr Narayan Kamath Dr. Shamila Kamath Dr. Tarkeshwar Kumar Mohammad Mobarak Hossain Dr. Neha Nidhi Tirkey Dr. Nisha Verma Abha Dixit Saurav Somnath Gaikwad	2025210413 99 A	23/05/2025	The Patent office, Government of India	Published
02	Apparatus for Neuro-Linguistic Data Acquisition and Analysis	Dr. Ria Mukharjee Dr. Sanjeev Srivastava Dr. Swaraj S Bharti Dr. Tarkeshwar Kumar	429680-001	07/09/2024	The Patent office, Government of India	Published

BOOKS AUTHORED/EDITED/CO-AUTHOR CHAPTER IN BOOK

- Contributed as an **Editor** in the book entitled, “Multidimensional Research Perspectives in Life Science” published by Bhumi Publishing (ISBN: 978-93-48620-76-7), May 2025.
- Contributed as an **Editor** in the book entitled, “Advances in Pharma and Health Science Research Volume IV” published by Bhumi Publishing (ISBN: 978-93-48620-09-5), April 2025.
- Published a **Book Chapter** entitled “Polycystic Ovary Syndrome: An alarming multi-system disorder” published by Disha International Publishing House, 2024.

RESEARCH GUIDANCE: M. PHIL/PH.D. /D.SC. /D. LITT

- Supervising one PhD research Scholar (CSIR-JRF)

RESOURCE PERSON/INVITED LECTURES/TALK

- Delivered a lecture as **resource person** on “Major Funding Agencies for Academic Research”: National Conference on “Inclusive and Sustainable Development for Self-Reliant India (Atmanirbhar Bharat)”, organized by Anuragrah Memorial College, Gaya (A Constituent unit of Magadh University, Bodhgaya, Bihar, 13th -14th March 2026.

- Delivered a lecture as **resource person** on “Research Grant Writing and Funding Agencies: Hands-on Training on Reference Management Using Mendeley” in the GURU DAKSHTA 26th Faculty Induction Program (**FIP**) organized by **UGC, MMTTC**, Ranchi University, Ranchi on 24/01/2026.
- Delivered a lecture as **resource person** on “Human Health and Disease: An overview of Infectious and Non-Infectious Conditions” in the GURU DAKSHTA 25th Faculty Induction Program (**FIP**) organized by **UGC, MMTTC**, Ranchi University, Ranchi on 21/08/2025.
- Delivered a **guest lecture** on “Agarose and SDS PAGE electrophoresis and Western Blotting” during the **PhD Course Work** on 19/07/2024; University Department of Zoology, Ranchi University, Ranchi.
- Delivered a **guest lecture** on “Protein and Gene Data Bank: BLAST & FASTA” during the **PhD Course Work** on 20/07/2024; University Department of Zoology, Ranchi University, Ranchi.
- Delivered a **guest lecture** on “Hands-on practice on Biotechniques” during the **PhD Course Work** on 20/09/2024; University Department of Zoology, Ranchi University, Ranchi.

FIP/RC/SHORT TERM COURSES/COMPLETED

- Participated and successfully completed the “**NEP 2020 Orientation & Sensitization Programme**” under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) for 7 days from July 24 – August 01, 2025. organized by UGC-Malaviya Mission Teacher Training Centre, Banaras Hindu University, Varanasi - 221005 (U.P.), 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 approved Short Term Professional Development Programme** on “**Implementation of NEP 2020 for University and College Teachers**” for 7 days from September 9- September 17, 2022, organized by Indira Gandhi National Open University, Staff Training and Research Institute of Distance

Education, New Delhi-110068, under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, India.

- Participated and successfully completed the “**UGC-Sponsored Guru-Dakshita 12th Faculty Induction Programme (FIP)**” (August 2022) from 2nd August- 29th August, 2022, organized by UGC, Human Resource Development Centre (HRDC), Ranchi University, Ranchi, Jharkhand, India.

SYMPOSIA/CONFERENCES/WORKSHOPS/PARTICIPATED

- Participated in a one-day symposium on “**Effective Library Management in Contemporary World**” & workshop on “**e-Granthalaya for Automation and networking of libraries of Ranchi university**” (March 27, 2025) organized by Central Library, Ranchi University, Ranchi.
- Participated in the workshop on “**Digital Governance and Learning Enhancement Initiative**” (March 22, 2025), organized by the Department of Higher and Technical Education, Government of Jharkhand, and Ranchi University, Ranchi.
- Participated in the State-level Workshop on “**Exploring Innovations, Policies & Prospects of Biotechnology**” organized by the Jharkhand State Higher Education Council (JSHEC), Department of Higher and Technical Education, Government of Jharkhand at Ranchi Women’s College, Ranchi on 25.01.2025.
- Presented ePoster at “**International Conference on “Agriculture and Allied Sciences: Recent Advances and Innovative Approaches for Climate Smart Agriculture**” (25th-26th Nov 2024) organized by the Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, India
- Participated and successfully completed the Five days Workshop on “**Basic Techniques in Laboratory Animal Handling and Research**” (9th September- 13th September 2024) organized by the Department of Veterinary Pharmacology and Toxicology, Birsa Agricultural University, Kanke, Ranchi, Jharkhand.
- Contributed as a member of the Organizing Committee in the One-Day Sensitization workshop on “**Multidisciplinary Multi-Institutional Collaborative Research**” (Feb 2024) Organized by MMCRC, 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.

- Presented an oral presentation entitled “**Climate Change: A key challenge to the elimination of Malaria,**” in the Two-Day National Conference (Multidisciplinary) & Symposium on Climate Change: Challenges and Opportunities (25th-26th May 2023), organized by the IQAC and University Department of Zoology, Ranchi University, Ranchi, Jharkhand.
- 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.

Tarkeshwar Kumar

Tarkeshwar Kumar