

DR. RASHMI RAJWANI

QUALIFICATIONS:

B.Sc. (CBZ), M.Sc. (Microbiology), Ph.D. (Microbiology), B.Ed., M.Ed., UGC NET (Education), CTET-II, M.P. Primary TET.

Area of Interest:

Research Methodology, Education Technology, Biological Sciences, Environmental Sciences, Microbiology, Biotechnology, Fermentation Technology, Environmental Biotechnology, Molecular Biology

Date of Joining:

08.09.2025

Publications:

1. Lalita M., Zankyani R. and Roymon M.G. (2012). Risk of bacteria causing gastroenteritis diseases isolated from Shivnath River, Durg district. Poster presented in national conference on “Conservation of biodiversity in India, some issues” 16th-17th Oct. 2012 and published in *Journal of Ecobiotechnology*, 4(2):159-161.
2. Roymon M.G., Zankyani R. and Varghese M. (2012). Antibiotic resistance pattern and plasmid profiling of thermotolerant bacteria from river Shivnath of Durg region Chhattisgarh. International conference on “Global meet of biologists & satellite conference on vector control and management: Present status and future strategies” jointly organized by Dept. of Zoology, Osmania University, Hyderabad; Division of biology, Indian institute of Chemical Technology, Hyderabad and Zoological Society of India, Bodh Gaya held at IICT (Indian Institute of Chemical Technology) Hyderabad from 26th-28th Dec. 2012, Poster-253, pp. 216.
3. Varghese M., Zankyani R. and Roymon M.G. (2012). Prevalence of multidrug resistant pathogenic *Escherichia coli* serotypes from potable water sources of Durg, Chhattisgarh. International conference on “Global meet of biologists & satellite conference on vector control and management: Present status and future strategies” jointly organized by Dept. of Zoology, Osmania University, Hyderabad; Division of biology, Indian institute of Chemical Technology, Hyderabad and Zoological Society of India, Bodh Gaya held at IICT (Indian Institute of Chemical Technology) Hyderabad from 26th-28th Dec. 2012.
4. Zankyani R. and Roymon M.G. (2013). Biochemical characterization and antibiotic profiling of scum forming and fluorescence producing bacterial isolates from river Shivnath, Durg (Chhattisgarh). Poster presented in II National conference “Recent advances in biological sciences” held on 25th-27th Nov. 2013.
5. Zankyani R. and Roymon M.G. (2013). Secondary metabolites and DNA estimation of *Aegle marmelos*. A national seminar on “Conservation of economically important endangered plant species of Chhattisgarh region” organized by Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai, Chhattisgarh from 25th- 26th Oct. 2013.
6. Zankyani R. and Roymon M.G. (2014). A review on herbal approach for treating Pneumonia. Golden Jubilee International Seminar on “Integrated Natural Resources Management (INRM): Issues, Challenges and Perspectives” Organized by School of Regional Studies and Research, Pt. Ravishankar Shukla University, Raipur Chhattisgarh, India in association with Council for Tribal and Rural Development (CTRD), Bhubaneswar, Orissa, India, from 27th-31st Jan. 2014.
7. Roymon M.G., Zankyani R. and Varghese M. (2014). Antibiotic resistance pattern and plasmid

profiling of thermotolerant bacteria from river Shivnath of Durg region Chhattisgarh. *Journal of Ravishankar University-B*, 27:63-68.

8. Zankyani R. and Roymon M.G. (2015). Synergistic/antagonistic interaction of antibiotics and hot aqueous *Tinospora cordifolia* extracts. *American Journal of Pharmatech Research*, 5(2):418- 423.
9. Zankyani R. and Roymon M.G. (2015). *In-vitro* antibacterial and synergistic interaction of petroleum ether extracts of *Tinospora cordifolia* with various antibiotics. *Advanced Journal of Pharmacie and Life Science Research*, 3(4):28-32.
10. Zankyani R. and Roymon M.G. (2017). Assessment of antibacterial and synergistic effect of *T. cordifolia* ethanolic extracts with various antibiotics against three MTCC bacterial strains. *Flora and Fauna*, 23:28-35.
11. Zankyani R. (2018). Antibacterial and synergistic effect of *Tinospora cordifolia* extracts against *Pseudomonas geniculata*. 16th Chhattisgarh Young Scientist Congress organized by Durg University, Durg (C.G.) and sponsored by Chhattisgarh Council of Science & Technology, at Govt. V.Y.T.P.G. Autonomous College, Durg and Bhilai Institute of Technology, Durg (C.G.) from 27th-28th Feb. 2018.
12. Rajwani R.Z. (2022). Virus: A friend and foe. *Medicon Microbiology*, 1(3):01-02.

Projects/ Dissertation Completed:

- “TB Control & Cure” in Microbiology Lab/ Department at N.M.D.C. Apollo Central Hospital, Bachel (C.G.) from 07th to 30th May 2006.
- “Industrial Waste Water Treatment” project performed at Bhilai Technical Institute, Bhilai Steel Plant (C.G.) from 17th to 29th July 2006.
- A dissertation on “Alcohol Production” Kedia Distillery Kumhary, Bhilai (C.G.), completed for partial fulfillment of M.Sc.
- A dissertation on “Impact of reading habits on the occupational aspirations of higher secondary students” completed for partial fulfillment of M.Ed.

Short Term Courses/Interaction/Faculty development Program Attended:

- Interaction program organized by Academic Staff College, Pt. Ravishankar Shukla University, Raipur held on 18-01-2013.
- Interaction Program (Science and Life Sciences) organized by Academic Staff College, Pt. Ravishankar Shukla University, Raipur (C.G.), Held from 23-03-2013 to 25-03-2013.
- UGC Sponsored Short term course on “Measuring research output with scientometrics and bibliometrics” at Academic Staff College, Pt. Ravishankar Shukla University, Raipur (C.G.) held from 22-09-2013 to 24-09-2013.
- Attended faculty development program on the topic “Innovative methods of teaching” organized by Kalinga University, conducted at St. Thomas College, Bhilai on 14-03-2019.

Guest Lecture:

- A Guest lecture delivered on the topic “Stress Physiology” organised by Botanical Society, Department of Botany, Kalyan P.G. College, Bhilai (C.G.) on 7th April 2018.

Awards:

- Got award as “Innovative academician under the category school teacher” by Auropath Global Awards 2019 held on 2nd November 2019.
- Got second prize in a poster presented on “Risk of bacteria causing gastroenteritis diseases isolated from Shivnath River, Durg district” in a National conference on “Conservation of biodiversity in India,

some issues” organized by Arts and Commerce Girls College, Raipur (C.G.) From 16th-17th October 2012.

Work Experience:

S.No.	Place	Post	Duration	Years
1.	A.S.E. College of Education, Bhopal (M.P.)	Assistant Professor	02.06.2023 to 06.09.2025	2 yr 3M
2.	Govt. Gurukulam Residential School, Bhopal (M.P.)	PGT Biology	01.07.2019 to 30.03.2020	9M
3.	Department of Education, St. Thomas College, Bhilai (C.G.)	Assistant Professor	15.02.2017 to 05.04.2019	2yr 2M
4.	Department of Microbiology & Biotechnology, St. Thomas College, Bhilai (C.G.)	Lecturer	07.11.2016 to 14.02.2017	3M
5.	Department of Microbiology at Kalyan P.G. College, Bhilai (C.G.)	Assistant Professor	15.07.2015 to 31.05.2016 and 15.07.2016 to 05.11.2016	2yr 2M
6.	Department of Microbiology, St. Thomas College, Bhilai (C.G.).	Teacher during Ph.D. tenure as a scholar	about three years	3yr
7.	UGC major research project “Biodiversity of important bacterial pathogens occurring in river Shivrath in Durg district”, in St. Thomas College, Bhilai (C.G.)	Project fellow (JRF)	12.11.2012 to 31.01.2014	1yr 2M
8.	Jawahar Navodaya Vidyalaya, Karap, Kanker (C.G.)	PGT Biology	01.07.2011 to 31.08.2011	2M
9.	Chhattisgarh Nursing College, Risali, Bhilai (C.G.)	Microbiology lecture	24.12.2010 to 25.12.2011	1yr
10.	Dr. Rajendra Prasad College of Nursing, Risali, Bhilai (C.G.)	Guest lecturer	01.07.2010 to 30.11.2010	5M
11.	AVS Enterprises (PARAG Packaged Drinking Water Plant) Borai, District Durg (C.G.)	Chemist	15.05.2008 to 15.08.2010	2yr 3M
12.	Vasuki Vidhyalaya, Kailash Nagar Industrial Estate, Bhilai (C.G.)	Teacher	28.09.2007 to 20.04.2011	3yr 5M

Seminar/Conference:

- i. National seminar on “**Current development of environmental sciences in Chhattisgarh state**”.
- ii. “**Golden jubilee international seminar on integrated natural resources management (INRM): Issues, challenges and perspectives**”.
- iii. International conference on “**World congress on Biotechnology**”.
- iv. International conference on “**Global meet of biologists & satellite conference on vector control and management: Present status and future strategies**”.
- v. National Seminar on “**Botanical researches: Present scenario & future prospects**”.
- vi. Symposium on “**Stem cells– In future medicine**”.
- vii. Seminar on “**Deuterium hydrogen isotope**”.

Workshop:

- “Hands on workshop in Bioinformatics and the way forward”.
- “Participative Training Methodology”.
- “Maintenance and repair of laboratory instruments”.
- “Effective interpersonal skills”.
- “Research methodology”.
- “Psychological Instruments and their utility in education and sports”.
- “Small molecule analysis by API Mass Spectrometry & NMR Spectroscopy”
- “Functional Genomics and Proteomics”.
- “Research methods & data analysis in socio–behavioural research”.
- “Molecular Biology (X-Perf Teaching Kits)”.
- “Hands on DNA technologies”.
- “Prospection and sustainable use of medicinal plants of Chhattisgarh”.
- “Research methodology & data analysis”.
- “Application of technology in plant sciences”.
- “Isolation, Identification & Inoculum Production of Rhizobium & AM Fungi”.

Other Academic Activities:

Editorial member of MC Microbiology (MCMI), American Journal of Pharmacie and Life Science Research (AJPLR), Global LiMS forum and International Association of Oncology (25.07.2020 to 25.07.2021).