

## CURRICULUM VITAE

### PREETI SINGH PARIHAR GUPTA

Assistant Professor

Department of Botany

Govt. Rajmata Vijiya Raje Sindhiya Kanya Mahavidyalaya

Kawardha, Kabirdham, 491995, Chhattisgarh

Email: [singhpariharpreeti@gmail.com](mailto:singhpariharpreeti@gmail.com),

Mob: 7985053716



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### EDUCATION

❖ **Doctor of Philosophy (Ph.D) (2018-Present)**

Production of bioelectricity from major kitchen by-product (Maad) of Chhattisgarh village by Microbial fuel cell: a green bioenergy technology, School of Studies in Biotechnology, Pt. RSU Raipur, Chhattisgarh, 492001.

❖ **MPhil (2009-2010)**

School of Studies in Biotechnology, Pt. RSU Raipur  
Aggregate 80.50%

❖ **Post Graduation (2007-2009)**

School of Studies in Biotechnology, Pt. RSU Raipur  
Aggregate 73.75 %

❖ **Graduation (2004-2007)**

Bhilai Mahila Mahavidyalaya, Sector 9 Bhilai, Pt. RSU Raipur  
Aggregate 72.05 %

❖ **AISSCE (2004)**

Senior Secondary School Sector 10, Bhilai, Chhatisgarh, CBSE Board  
Aggregate 72 %

❖ **AISSE (2002)**

Senior Secondary School Sector 10, Bhilai, Chhattisgarh CBSE Board  
Aggregate 70 %

### SCHOLASTIC ACHIEVEMENT

- ❖ CSIR NET LS December 2016, 38<sup>th</sup> rank

### ACADEMIC RESPONSIBILITY

❖ NSS Programme Officer, Govt RVRS Kanya Mahavidyalaya Kawardha.

### **PUBLICATIONS**

1. **Parihar, P. S.**, Keshavkant, S., & Jadhav, S. K. (2022). Electrogenic potential of *Enterococcus faecalis* DWW1 isolated from the anodic biofilm of a dairy wastewater fed dual chambered microbial fuel cell. *Journal of Water Process Engineering*, 45, 102503.

### **BOOK CHAPTERS**

1. Goel S, **Parihar P**, Meshram V (2020): Plant-Derived Quinones as a Source of Antibacterial and Anticancer Agents *Bioactive natural products in drug discovery* (Eds. Singh J, Meshram V, Gupta M), Springer nature publications, Singapore. Chapter 6.

### **TRAINING AND WORKSHOP ATTENDED**

1. Participated in one day workshop on “ Educational framework for Global citizenship in HE” UGC HRD centre, Doctor Harisingh Gour Vishwavidyalaya, Sagar M.P. on 15 June 2022.
2. Training on “National Intellectual Property Awareness Mission” organized by Intellectual property office, GOI on 23 May 2022.
3. Three days international virtual workshop Research Methodology and Research Article Writing” jointly organised by Lavender Literary Club, India, Cape Comorin Trust, India, Malaysian Industrial Relations & Human Resource Association (MIRHA), Malaysia from 12-14 May 2022.
4. 15 days college level e-training programme on “Organic Home Gardening for Beginners” organized by Department of Botany Bhilai Mahila Mahavidyalaya, Bhilai from 26 July to 10 August 2021.
5. 1 week “National online workshop in Applied Sciences” organized by Department of Microbiology and Zoology, Nizam College, Osmania University, Hyderabad, Telangana from 24 – 30 July 2020.
6. 3 days online workshop on “Mendeley Reference Manager” organized by Nuhianwali education society, Punjab, India from 15-17 June 2020.
7. Training on “Mushroom Cultivation” by NGO at Bhilai Mahila Mahavidyalaya, Bhilai, C.G., January 2007.
8. Analysis of Milk at SANCHI MILK DAIRY, Raipur DugdhSangh Sahakari Maryadit (Sanchi), Urla C.G., July 2006.
9. 3 weeks summer training on “Water Analysis” at HIMANSHU’S SHIVA MINERAL WATER PLANT, Bhilai, May 2005.

### **FACULTY DEVELOPMENT PROGRAMME**

1. Participated in National One Week FDP on “ICT tools for Effective Teaching Learning” organized by Kamla Nehru Mahavidyalaya, Nagpur from 23-28 May 2022.

### **FACULTY INDUCTION/ORIENTATION PROGRAMME**

1. Participated in 33 Days UGC Sponsored Faculty Induction Programme Organized by UGC – HRDC, Kumaun University Nainital U.K. India from 24th February – 28th March, 2023.

### **AWARDS**

1. Best poster presentation award (2022) at International E-Conference on Recent Advances in Biological Sciences & Opportunities in Entrepreneurship held at School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, CG.

### **FELLOWSHIP/ GRANTS**

- ❖ Pandit Ravishankar Shukla University Research Fellowship Award 2018-19.

### **CONFERENCE PROCEEDINGS**

#### ***ORAL PRESENTATION***

1. Preeti Parihar and S.K. Jadhav (2020): Isolation and Screening of Indigenous Electrogenic Bacteria for Bioelectricity Production Using Kitchen Waste as a Substrate. in National Conference on Recent Advances and Trends in Biotechnology" at School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur

#### ***POSTER PRESENTATION***

1. Parihar P.S. and Jadhav S.K. (2022): Electricity generation from starch based wastewater using microbial fuel cell technology: Impact of ionic strength and substrate concentration” in Interational e- Conference on Recent Advances in Biological Sciences and Oppurtunities in Entrepreneurship at School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur .

#### ***CONFERENCE ATTENDED***

1. Attended webinar on “Application of Genetic Engineering and Molecular Biology in Crop Improvement” (2022) organized by Faculty of Science - Department of Botany, Kalinga University, Naya Raipur (C.G).
2. Attended International webinar on "Molecular Markers in Plant Pathology" (2021) organized by the Department of Biotechnology, St.Joseph's College (Autonomous),

Tiruchirappalli.

3. Attended Webinar on Fundamentals of effective Scientific Writing: Manuscript and grants organised by American Chemical Society.
4. Attended webinar on "Recent Problems and Prospects of COVID-19" (2020) organised by the Department of Biotechnology, Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh, India.
5. Seminar on "Opportunities and entrepreneurship in Biotechnology" (2017) organized by Pt.Ravishankar Shukla University Raipur, C.G.
6. Attended National Seminar on "Innovations and prospects in Biotechnology" (2016) organized by Pt. Ravishankar Shukla University Raipur, C.G.
7. Attended National conference on "Climate change and its effect on Biodiversity" (2011) organized by Department of Biotechnology and Microbiology Bhilai Mahila Mahavidyalaya Bhilai, C.G.
8. Attended National conference on "Global impact and current excitement of biotechnology" (2007) organized by Department of Biotechnology and Microbiology, St. Thomas College, Bhilai, C.G.

### **INVITED TALK**

1. Microbial fuel cell: A greener approach for electricity generation (January 2022) APSGMNS Govt. P.G. college Kawardha.

### **PROJECT DONE**

1. Done 6 months project during Mphil on Absorption of fluoride with special reference to fungi from School of Studies in Biotechnology, Pandit Ravishankar Shukla University Raipur, Chhattisgarh.
2. Done 3 months project during MSc on "Assessment of water quality of waste water drains joining to Hindon river at Ghaziabad" from Department of Civil Engineering, IIT Delhi.

### **AREAS OF INTEREST**

Microbiology

Microbial fuel cells

Bioenergy

Environmental Biotechnology

Bioremediation

### **SKILLS**

- ❖ Molecular techniques: Genomic DNA isolation; Plasmid DNA isolation; RNA isolation; Polymerase chain reaction (PCR); RT- PCR, Restriction digestion.
- ❖ Agarose and Polyacrylamide gel electrophoretic techniques; SDS-PAGE, Native-PAGE, Immunological techniques (ELISA, double immuno diffusion, RIA)
- ❖ Proficient in Computer Basics/ analytical software (MS word, MS excel, PowerPoint, Adobe Photoshop, Origin, MEGA, RAxML, Cygwin and R).

### **PERSONAL DETAILS**

Husband's Name: Dr Akhil Gupta

Date of Birth: December 12, 1986

Blood Group : O +ve

Sex: Female

Status: Married

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