



St. Xavier's College

Dr. Camil Bulcke Path, Ranchi

Faculty Profile

Name of Faculty Member	:	Dr. Priya Srivastava
Gender	:	Female
Email ID	:	priyasrivastava@sxcran.org
Name of Department	:	Department of Zoology
Designation	:	Assistant Professor
Level of Teaching	:	Undergraduate and Postgraduate
Academic Qualification	:	M.Sc., Ph.D.
Total Teaching Experience	:	13 Years
UGC NET/SET Qualified	:	No

Research Papers Published:

- 1) **The indispensable role of animal science in drug discovery : a comprehensive review**, January **2024**, Journal of Experimental Zoology, India, 27(1):1313-1318, doi: 10.51470/jez.2024.27.1.1313.
- 2) **Maternal nutritional understanding, attitudes, and practices: implications for children's eating habits**, December **2023**, Uttar Pradesh Journal of Zoology, 44(24):266-272, doi: 10.56557/upjoz/2023/v44i243838.
- 3) **Exploring the potential of graphene and graphene oxide as innovative nano carriers for drug delivery**, November **2023**, doi: 10.51470/bca.2023.23.s1.1571
- 4) **Revolutionizing medicinal chemistry: AI powered drug discovery for faster innovation**, November **2023**, doi: 10.56557/upjoz/2023/v44i223745.
- 5) **Agricultural drone for crop health monitoring Harnessing microorganisms for sustainable agriculture: promoting environmental protection and soil health**, August **2023**, bionaturedoi:10.56557/bn/2023/v43i11851.

- 6) **Unleashing the potential of millets promoting nutritious grains as vital cereal staples during the International year of millets: a review**, August 2023, International Journal of Plant & Soil science, 35(18):1860-1871, doi: 10.9734/ijpss/2023/v35i183469.
- 7) **Soil microbes expertly balancing nutrient demands and environmental preservation and ensuring the delicate stability of our ecosystems- a review**, July 2023, International Journal of plant & soil science, doi: 10.9734/ijpss/2023/v35i183363 lab: kushal sachan's lab.
- 8) **Biochar's influence on soil microorganisms: understanding the impacts and mechanisms**, July 2023, International Journal of plant & soil science, 35(18):455-464, doi: 10.9734/ijpss/2023/v35i183310 lab: drishty katiyar's lab.
- 9) **Physico-chemical analysis of soils in ranchi**, July 2023, doi: 10.24941/ijcr.45499.06.2023.
- 10) **Synergizing different control methods for sustainable management of parthenium weed (parthenium hysterophorus) (integrated pest management strategies)**, July 2023, Journal of experimental Zoology, india, 26(2):2529-2540, doi: 10.51470/jez.2023.26.2.2529.
- 11) **Environmental sustainability and food security of traditional agricultural practices in india: a review**, June 2023, International Journal of environment and climate change, 13(8):1847-1856, doi: 10.9734/ijecc/2023/v13i82138.
- 12) **Impact of nano and non-nano fertilizers on rice quality and productivity: a review**, June 2023, International Journal of environment and climate change, 13(8):973-987, doi: 10.9734/ijecc/2023/v13i82035.
- 13) **Impact of nano and non-nano fertilizers on rice quality and productivity: a review**, June 2023, International Journal of environment and climate change, 13(8):973-987, doi: 10.9734/ijecc/2023/v13i82035.
- 14) **Article no.ijpss.103295**, Srivastava et al, June 2023 lab: kushal sachan's lab.
- 15) **Microbes as a promising frontier in drug discovery: a comprehensive exploration of nature's microbial marvels**, May 2023, doi: 10.5281/zenodo.8149064.
- 16) **Article no.ijpss.103295** Srivastava et al, Issue 2 | 152 adv envi was mana rec august 2021.

- 17) **Change of Seasonal variation and feeding of bait containing piperine on reproduction and certain biochemical changes of fresh water snail lymnaea acuminata**, August 2020, doi: 10.12966/fbls.09.02.2014 lab: vinay kumar singh's - malacology lab.
- 18) **Biological properties of thuja orientalis linn**, May 2012, Advances in life sciences, 2(2):17-20, doi: 10.5923/j.als.20120202.04.
- 19) **Genetic diversity analysis in different varieties of black gram using rapid markers**, March 2011.
- 20) **Inhibition of acetylcholinesterase and phosphatases by active molluscicidal components of saraca asoca and thuja orientalis in the nervous tissue of lymnaea acuminata**, January 2011.
- 21) **Molluscicidal activity of piper nigrum (black) against the snail lymnaea acuminata and indoplanorbis exustus in the control of fascioliasis**, January 2009.
- 22) **Control of harmful snails: tajpat (cinnamomum tamala) a potential molluscicide**, January 2005.
- 23) **Standardization of callus induction and plant regeneration from leaf explants of black gram (vigna mungo var. Silvestris)**.

Participation in UGC-HRDC Course/FDP/OC/RC:

- 1) Attended 14 Days National Level Faculty Development Programme on **"Innovative teaching strategies and tools in the digital age"** from 01st-14th April 2024, organised by Ministry of Education institutions innovation council IISC GGI Ludhiana, Punjab.
- 2) Attended two-days' workshop on **"Essentials of Research Writings and Using Mendeley Reference Manager"** from February 17th-18th, 2024 hosted by Scrollwell.
- 3) Participated in the one-week national level online faculty development programme on **"Outcome Based Education and Essential AI Tools for Teachers"** organised by the Internal Quality Assurance Cell (IQAC) of St. Thomas College Palai in association with the Kerala State Higher Technical Education Council (KSAC) from 10th January 2024 to 16th January 2024.

- 4) Participate in the two-day Faculty Training Workshop On “**Functional Nano Biomaterials (FNBM-2023)**” held on 27th-28th March 2023, at Birla Institute of Technology (BIT), Mesra, Ranchi.
- 5) Completed a National Level Faculty Development Programme on “**Online Teaching Platform and Tools Technology Management in Education**” Organised by Chanakya National Law University Patna, from February 06th -12th, 2023.
- 6) Academic Staff College, Himachal Pradesh, University Shimla, UGC sponsored special summer school, participated in 3 weeks special summer school in **Environmental Sciences** held from 27th May 2013 to 15th June 2013.
- 7) Attended UGC Sponsored **Orientation Programme**, organised by Deen Dayal Upadhyay Gorakhpur University, Gorakhpur (UP), from 2nd-29th June 2012.

Seminar/Conference attended/Paper Presented (National/International):

- 1) Participated as a speaker at the International Conference on the topic “**Indian knowledge system: A Boon for Future Nursing Services**”, organised by Guru Shree Gorakshanath College of Nursing Mahayogi Gorakhnath University Gorakhpur, held from 12th-14th February 2024.
- 2) Certificate of Recognition for Participation in First International Conference on “**Advances in Novel Materials Towards Sustainable Future**” From 20th- 22nd January 2024, Organised by Department of Physics and IQAC St. Xavier’s College Ranchi.
- 3) Participated as a Keynote Speaker on the presentation entitled “**Effect of Climate Change on Stress Psychology Among Some Vertebrates**” at 4th International Conference on Advances in Biological Research and Environmental Sustainability June 17th- 21st 2023 held at Bali Indonesia.
- 4) Participated and presented a paper in “**The National Conference on Conservation of Eastern Ghats**”, Organised by Postgraduate Department of Zoology, Utkal University Greens, From 16th To 17th April 2016.
- 5) Participated and presented a paper in the International Conference, **Harmony-2013** organised by Department of Zoology, Environmental Science, and Biotechnology, DDU Gorakhpur University, Gorakhpur (UP), from 11-13th November 2013.

- 6) Participated and Presented paper in the National Seminar on **"Echoes of Silent Spring: Human Impact on Environment"**, held at Vishwa Bharati Santiniketan, on 9th March 2013.
- 7) Participated and Presented Research Paper Entitled **"Effect of Different Combinations of Cedrus deodara Oil and Azadirachta on L. acuminata at the 4th International Conference of Association on Anthropogenic Impact of Environment and Conservation Strategy"**, November 2nd-4th November 2012, At Ranchi Organised by Department of Zoology, Ranchi University and Department of Zoology and Botany, St. Xavier's College Ranchi.
- 8) Presented a Paper and delivered lecture Entitled **"Inhibition of Acetylcholinesterase and Phosphatase"** by active Mollusc L.acuminata add the International Conference on **climate change, forest resources and environment**, organised by Department of Environmental Sciences, University of Kerala, Thiruvananthapuram in collaboration of with National Environmentalist Association Ranchi, during 9th- 11th December 2011.

Book Authored/Edited in Book:

- 1) Author of a book published entitled **"Emerging Trends in Agricultural Practices"**, published by ND global publication, ISBN: 978 81-9680-58-0-7, Date of Publishing 29-12-2023.
- 2) Member Editorial Board- "The Journal of American Medical Science and Research", <https://medical.researchfloor.org/editorial-board/>
- 3) Author/Editor, Global Agri-Vision E-magazine. <https://globalagrivision.in/issued>

Experience of Ph. D. Guidance (Undergoing):

- 1) Mouli Chakraborty **"Synthesis and Characterization of Green Nanoparticles" using the extracts of *Withania coagulans* and its efficacy on Wistar albino rats"**.
- 2) Vanishka Lohia **"Effect of Catechin coated dialdehyde cellulose on the treatment of Atherosclerotic lesions in mice"**.
- 3) Medha Kumari **"Assessment of Microplastic pollution on soil and its consequences on earthworm: Implications for Sustainable Agriculture"**.

Guest Lecture/Special Lecture Delivered:

- 1) Delivered lecture as a **Resource Person** for Human Resource Development centre HRDC, Ranchi university, Ranchi to the participants of ID IT refresher course 2024 organised from 01st -21st March 2024 on the topic "**Emerging Trends in Information Technology for a Sustainable Future**".
- 2) Delivered lecture as a **Resource Person** for Human Resource Development centre HRDC, Ranchi university, Ranchi to the participants of Guru Dakshta 17th faculty induction programme (FIP) organised from 04th -31st August 2023 on the topic "**Climate Change**".
- 3) Delivered lecture as a **Resource Person** to the participants of refresher course in life sciences organised by human resource development centre, HRDC, Ranchi university Ranchi from 17th-30th January 2023 on the topic "**impact of information technology on Biological Sciences and its effectiveness in various disciplines of humanities**".
- 4) Delivered lecture as a **Resource Person** for Human Resource Development centre HRDC, Ranchi university, Ranchi to the participants of Guru Dakshta 14th faculty induction programme (FIP) organised from 24th -30th November 2022 on the topic "**Sustainable Development of Goal**".
- 5) Delivered lecture as a **Resource Person** to the participants of Refresher Course in life sciences organised by human resource development centre, HRDC, Ranchi university Ranchi from 06th -9th September 2022 on the topic "**DNA Replication**" and "**Chemistry of DNA Synthesis**".
- 6) Delivered lecture as a **Resource Person** for Human Resource Development centre HRDC, Ranchi university, Ranchi to the participants of Guru Dakshta 9th faculty induction programme (FIP) organised from 1st -28th February 2022 on the topic "**Interdisciplinary Approach to Environmental Education**".
- 7) Delivered lecture as a **Resource Person** for Human Resource Development centre HRDC, Ranchi university, Ranchi to the participants of 92nd **Orientation Programme** organised from 05th September to 2nd October 2018.

Any Special Award/Achievement:

- 1) **Certificate of Appreciation** for **Blood Donation Camp** organised by Rajendra institute of Medical Sciences Ranchi, 21st July 2023.
- 2) Joined as a **Life Member** of Agricultural Technology Development Society (ATDS), Ghaziabad, Uttar Pradesh from 29th April 2023.
- 3) Was Conferred with **Excellence in Research Award 2023**, At The 6th International Conference Organised At Himachal Pradesh University Summer Hill Shimla, from April 20th-30th 2023 on the Topic "**Strategies and Challenges in Agricultural and Life Science for Food Security and Sustainable Environment (SCALFE-2023)**".
- 4) Won the **Young Scientist Award in ICEED 2010** at the International Conference organised by National Environmentalist Association from December 10th- 12th December 2010 Sambalpur.

Patents:

1. Obtained Patent for Certificate of Registration of Design from The Patent Office, Government of India for "**MICROWAVE SENSOR BASED SOIL ANALYSER**",
Design No:- 396137-001, Date:- 26/09/2023.
2. Obtained Patent for Certificate of Registration of Design from The Patent Office, Government of India for "**AGRICULTURAL DRONE FOR CROP HEALTH MONITORING**",
Design No:- 388119-001, Date:- 10/06/2023.

Co-Curricular Activities and Achievements:

- 1) **NCC:**
 - a) Associate NCC Officer (**ANO**), NCC No- 2310017, Rank: Lieutenant.
 - b) Successfully completed Ref-cum-Pro SW-54 from 27th June 2016 to 26th July 2016 with Alpha(A) Grading in NCC Officers Training Academy, Gwalior.
 - c) Was Awarded Commandants Certificate of Merit for Excellence in Lecture IP during the course.

- d) Was Awarded Commandants Certificate of Merit for Excellence in Camp Planning during the course.
- 2) Member: Board of Studies for Syllabus Modification, Designing and Compilation
 - 3) Member: Woman Cell Department at St. Xavier's College, Ranchi
 - 4) Member: Eco-Task force at St. Xavier's College, Ranchi
 - 5) Member: Woman Cell Department at St. Xavier's College, Ranchi

[Dr. Priya Srivastava]