राम सकल सिंह साइंस कॉलेज, सीतामढ़ी
(A CONSTITUENT UNIT OF BRABU, MUZAFFARPUR)

Faculty Details Proforma for College Website

Name	**DR. JAY KISHOR PRASAD**	Photograph
Designation	**ASSISTANT PROFESSOR**	
Department	**BOTANY**	
Phone No. Office		
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Web-Page		

Educational Qualifications

Degree	College/University	Year
Ph.D.	**BANARAS HINDU UNIVERSITY**	**2022**
PG	**BANARAS HINDU UNIVERSITY**	**2014**
UG	**V. B. S. PURVANCHAL UNIVERSITY**	**2008**
Any other qualification		

Career Profile

Teaching Experience: B. Sc. in Department of Botany, Mahila Mahavidyalaya (MMV), Banaras Hindu University, Varanasi in Session 2017-2018 (even semester), 2018-2019, 2019-2020

B.Sc. and M.Sc. in Department of Botany, Dr. Ghanshyam Singh P.G. College (Affiliated to: Mahatma Gandhi Kashi Vidyapith, Varanasi, from16/08/2023 to 16/01/ 2024.

B.Sc. in Department of Botany, Ram Sakal Singh Science College, Sitamarhi (A Constituent Unit of BRABU) from 17/01/2024 till date

Administrative Assignments

Areas of Interest/Specialization

Plant Biotechnology, Microbiology, Plant Pathology, Taxonomy, Plant Physiology, Genetics, Molecular Biology

Paper Taught

Phycology and Microbiology	Genetics	Plant Metabolism
Biomolecules and Cell Biology	Molecular Biology	Research Methodology
Mycology and Phytopathology	Plant Ecology and Phytogeography	Recombinant DNA Technology and
Archegoniate	Plant systematics	Plant Biotechnology
Morphology and Anatomy	Reproductive Biology of Angiosperms	Horticultural Practices and Post Harvest
Economic Botany	Plant Physiology	Management Technology

Research Guidance

Publications Profile

Research Articles

1. Prasad, J. K., Pandey, P., Anand, R., Raghuwanshi, R., 2021. Drought exposed *Burkholderia seminalis* JRBHU6 exhibits antimicrobial potential through pyrazine-1,4-dione derivatives targeting multiple bacterial and fungal proteins. Frontiers in Microbiology. 12, p, 513.
2. Prasad, J.K., Dey, R., Raghuwanshi, R., 2022. Exopolysaccharide-Producing Rhizospheric Bacteria Enhance Yield via Promoting Wheat (*Triticum aestivum* L.) Growth at Early Stages. Microbiology. pp, 757-769.
3. Prasad, J.K., Dey, R., Raghuwanshi, R., 2021 Antimicrobial Potential of Rhizospheric Bacteria *Streptobacillus* sp.. Journal of Pure and Applied Microbiology. 15(4),1846-1854.
4. Prasad, J.K., Gupta, S.K., Raghuwanshi, R., 2017. Screening multifunctional plant growth promoting rhizobacteria strains for enhancing seed germination in wheat (*Triticum aestivum* L.). International Journal of Agricultural Research. 12(2), pp, 64-72.
5. Gupta, S.K., Prasad, J.K., Raghuwanshi, R., 2017. Characterizing rhizospheric plant growth promoting bacteria for their effects on oat (*Avena sativa*). International Journal of Pharma Bio Science. 8(4), pp,142-151.
6. Raghuwanshi, R., Prasad, J.K., Gupta, S.K., 2018. Anticandidal Activity of Phytochemicals Extracted from Medicinal Plant *Eclipta prostrata*. International Journal of Pharma Bio Science. 9(4), pp, 50-56.

Book Chapters

1. Raghuwanshi, R., Prasad, J.K., 2018. Perspectives of rhizobacteria with ACC deaminase activity in plant growth under abiotic stress. In *Root Biology*, Springer, Cham. pp, 303-321.
2. Prasad, J.K., Dey, R., Gupta, S.K., Raghuwanshi, R., 2020. Portraying Microbial Beneficence forAmeliorating Soil Health and Plant Growth. *Soil Health*, Springer, Cham. pp, 287-312.
3. Prasad, J.K., Raghuwanshi, R., 2022. Mechanisms of multifarious soil microbial enzymes in plant growth promotion and environmental sustainability. In *Bioprospecting of Microbial Diversity*, Elsevier. Pp, 117-143).

Conference Organization/Presentations

1. International Conference on "Novel Applications of Biotechnology in Agricultural Sectors: TowardsAchieving Sustainable Development Goal-2018" held in the Institute of Agricultural Sciences, Banaras Hindu University, Varanasi during 20-21 March, 2018.Present a poster entitled "Screening efficient plant growth promoting rhizobacteria strains for enhancing seed germination, plant growth and production in wheat (*Triticum aestivum* L.)"
2. International Conference on" Sustainable Agriculture Development in Changing Global Scenario" held in Institute of Environmental and Sustainable Development during 11-13 October, 2019. Oral presentation entitled "Purification and characterization of antimicrobial compounds extracted from soil bacteria *Burkholderia seminalis* isolated from drought affected region of India"
3. The international E-Conference on 'Advances and Future Outlook in Biotechnology and CropImprovement for Sustainable Productivity' organized by the Department of Biotechnology and CropImprovement, College of Horticulture, Bengaluru during 24-27th November, 2020. Presented a posterentitled 'Prospects of Zinc Solubilizing Bacteria in Enhancing Nutrient Uptake and Growth Promotion in wheat (*Triticum aestivum* L.)' under the session on the theme Advances in Molecular Biology of Abiotic Stress Tolerance.
4. National Symposium on "Current Trends and Future Prospects in Plant Science Research" held on February 1-

3, 2019. Organized by Centre of Advance Study, Department of Botany, Institute of Science, Banaras Hindu University, Varanasi-221005. Present a poster entitled "Strategies to increasedrought tolerance in wheat by EPS producing bacteria.

5. Participated in Symposium on "Frontiers Sciences (Present and Future)- Life Sciences" held at the Mahamana Seminar Complex, Institute of Science, BHU on March 13-14,2019. Organized by Instituteof Science, Banaras Hindu University, Varanasi-221005.
6. Participated in National Lecture-cum Workshop on "Recent Advanced in Science and its Impact on Environment (RASIE) held on 30 November-6 December. Jointly organized by Mahila Mahavidyalaya & School of Education, Banaras Hindu University, Varanasi-221005.
7. Participated in NASI-BHU Teachers training workshop held on 10th and 11th February, 2017. Organized by NASI Varanasi Chapter & Department of Botany, Banaras Hindu University, Varanasi-221005.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Qualified **CSIR-UGC NET JRF "Life Science" (June 2017, AIR 109)**
Qualified **ASRB-NET "Agriculture Biotechnology" (June 2016)**
Qualified **GATE "Life Science" 2016 (98.51 percentile, AIR-153),**
2015 (97 percentile, AIR-243)
2014 (88 percentile AIR-1024

Association With Professional Bodies

- Member of Research Cell Ram Sakal Singh Science college, Sitamarhi
- Member Of OBC Cell Ram Sakal Singh Science college, Sitamarhi
- Member of SC/ST Cell Ram Sakal Singh Science college, Sitamarhi

Corporate Life

Completed **Biotech Industrial Training Programme** 2015-16 at MRD Life Sciences Pvt. Ltd. Lucknow from 28.10.2015 to 27.04.2016 in the area of "**Studies on Production, Purification, and Characterization of Antimicrobial Components from Soil Bacteria**" Sponsored by Department of Biotechnology Government of India organized by **Biotech Consortium India Limited New Delhi**

Other Activities

Signature of Faculty Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.