

Shivani Singh  
Department of Integrative  
Faculty of Science  
MSDU Azamgarh ,  
Email- shivani.singh@bhu.ac.in  
Contact no: 8604620414  
ORCID Id= 0000-0002-3443-5219

CV



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**WORK EXPERIENCE**

- **2024: RJP-PDF from BHU**, (SRICC-IOE) Varanasi-221005
- Earlier worked as part Time Assistant Professor in Dheerendra Mahila PG collage, Varanasi and Assistant professor in Jeevandeep group of institution, Varanasi.

EDUCATION	YEAR	UNIVERSITY/BOARD	SUBJECTS STUDIED	PERCENTAGE
Ph.D	2023	BHU	Biochemistry	75%
M.Sc.	2011	BHU	Biochemistry	78.5 %
B.Sc. th	2009	BHU	Botany Hons.	68.5%
12 th	2003	UP BOARD	Life science subjects	66%
10	2001	UP BOARD	Science subject	66.67%

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**Research and professional experience**

- Council of Scientific and Industrial Research-Lectureship (Dec 2010 Rank 72)
- Graduate Aptitude Test in Examination – 2011(Life Science)
- Indian Council of Medical Research- Junior Research Fellowship-2019

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**Research summary**

**Postdoc work - COPD-Induced Mitochondrial Dysfunctioning**

**Ph.D. work:** For my Ph.D. thesis, I conducted an extensive study on the *Proteomics and Genomics in Relation to Cadmium (Cd) Toxicity and Drought Stress in Rice*. My research was aimed at understanding the molecular responses of rice plants to Cd toxicity and drought, and identifying potential mitigation strategies for these environmental stressors. Overall, my Ph.D. work has contributed to understanding how rice plants respond to Cd and drought stress at the proteomic, genomic, and metabolomic levels, and has identified potential strategies to mitigate this environmental challenge.

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**Conferences**

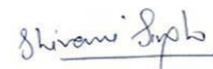
1. Poster presentation on National seminar on recent advances in fungal diversity plant microbes' interaction and disease management.
2. Poster presentation on 45<sup>th</sup> all India cell biology conference.
3. Workshop on international symposium on biology of development and disease 2023.
4. Participation on Webinar on flexible and easy to use SEM for widest range of sample by SAIF IIT Bombay.
5. Participation on Webinar on basic for TEM & analytical electron microscopy by SAIF IIT Bombay.

## Publication

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### Published

1. **Singh, S.**, Kumar, S., Shiv, K., Singh, A., Kumar, P. and Prasad, L.B., 2025. Phytotoxic impact of dibutyl phthalate (DBP) on physiological, biochemical, and oxidative stress parameters of rice (*Oryza sativa*). *Environmental Science and Pollution Research*, pp.1-15.
2. **Singh, S.**, Singh, P., and Dubey, R.S. 2022. Comparative Evaluation of Cadmium Toxicity Effects on Growth, Photosynthetic and Oxidative Stress Parameters in Various Genotypes of Indica Rice (*Oryza Sativa* L.) Seedlings. *Indian J Agric Biochem* 35 (1), 40-45.
3. Singh, P., **Singh, S.** and Dubey, R.S. 2021. Ferrous Chloride and Sodium Ascorbate Alleviate Pb Toxicity in Rice Seedlings by Modulating the Activity of Antioxidative Enzymes. *Indian J Agric Biochem* 34 (2), 199-204.
4. **Singh, S.**, Singh, P. and Dubey, R.S. 2022. Climate change impacts on crop productivity. In “Climate Change & Sustainable Development”. CRC Press (Taylor & Francis). In press.
5. **Singh, S.**, Shah K. and Dubey, R.S. 2023. Cadmium and drought interactive effects oxidative stress, antioxidative defense and gene expressions in rice seedlings. *Environment and experiment Botany* in review.
6. **Singh, S.**, Shah K. and Dubey, R.S. Effects of Si treatment on alterations in Cd-induced oxidative stress and gene expression in rice plants. *Protoplasma* (in second review).



Shivani singh

