Dr. Harisingh Gour Vishwavidyalaya
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Title	Dr.	First/ Middle Name	Deepanshi	Last Name	Jaiswal	Photograph

Designation	**Assistant Professor**
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EDUCATIONAL PROFILE

Degree	Institution	Year	Remarks
B. Sc.	**Banaras Hindu University**	2013	Ist Division
M. Sc.	**Banaras Hindu University**	2015	Ist Division
M. Phil.	**NA**		
Ph. D.	**Banaras Hindu University**	2023	NA

CAREER PROFILE

Organization / Institution	Designation	Duration	Role
Mahatma Gandhi Balika Vidyalaya (P.G.) College, Firozabad, U.P.	**Assistant Professor**	**June 2022 – November 2024**	**Teaching faculty of B.Sc students**

Areas of Interest / Specialization

Ecology, Abiotic stress management in plants, Eco-physiological adaptations of medicinal plants to environmental stresses, Stress effect on qualitative and quantitative profile of secondary metabolites.

Publications

1. **Jaiswal D**., Agrawal M., Agrawal S. B. 2022. Dose differentiation in elevated UV-B manifests variable response of carbon–nitrogen content with changes in secondary metabolites of *Curcuma caesia* Roxb. ***Environmental Science and Pollution Research***. 29(48):72871-72885, https://doi.org/10.1007/s11356-022-20936-1, PMID: 35616842, IF=**5.2**, Q1.

2. Pandey A., **Jaiswal D.**, Agrawal M., Agrawal S. B. 2022. Changes in ultrastructure, photosynthetic abilities, and secondary metabolite due to individual and interactive effects of chromium and ultraviolet-B radiation in *Adhatoda vasica*. ***Photosynthetica***. 61:20-30, https://doi.org/10.32615/ps.2022.042, PMID: 39650674, IF=**2.3**, Q2

3. **Jaiswal D.**, Pandey A., Agrawal M., Agrawal S. B**.** 2023. Photosynthetic, Biochemical and Secondary Metabolite Changes in a Medicinal Plant *Chlorophytum borivilianum* (Safed musli) against Low and High Doses of UV-B Radiation. ***Photochemistry and Photobiology***. 99(1):45-56, https://doi.org/10.1111/php.13672, PMID: 35837836, IF=**2.5**, Q2.

4. **Jaiswal D.**, Agrawal S. B. 2021. Ultraviolet-B induced changes in physiology, phenylpropanoid pathway, and essential oil composition in two *Curcuma* species (*C. caesia* Roxb. and *C. longa* L.). ***Ecotoxicology and Environmental Safety***. 208:111739, https://doi.org/10.1016/j.ecoenv.2020.111739 , PMID: 33396067, IF=**6.2**, Q1.

5. Pandey A., **Jaiswal D.**, Agrawal S. B**.** 2021. Ultraviolet-B mediated biochemical and metabolic responses of a medicinal plant *Adhatoda vasica* Nees. at different growth stages. *Journal of Photochemistry and Photobiology B: Biology*. 216:112142, https://doi.org/10.1016/j.jphotobiol.2021.112142 **,** PMID: 33592357, IF=**3.9**, Q1.

6. **Jaiswal D.**, Pandey A., Mukherjee A., Agrawal M., Agrawal S. B. 2020. Alterations in growth, antioxidative defense and medicinally important compounds of *Curcuma caesia* Roxb. under elevated ultraviolet-B radiation. ***Environmental and Experimental Botany***. 177:104152, https://doi.org/10.1016/j.envexpbot.2020.104152, IF=**4.5**, Q1.

7. Hamid A., Singh S., Rai K., **Jaiswal D.**, Agrawal S. B. 2022. Inter-Annual and Seasonal Variability in Ambient Ultraviolet-B Radiation Level at a Tropical Region of Indo-Gangetic Plain. ***Journal of Scientific Research***. 66(3): 1-10, https://doi.org/10.37398/JSR.2022.660322, IF=N/A, Q4.

8. Apoorva, **Jaiswal D.**, Pandey-Rai S., Agrawal S. B**.** 2021. Untangling the UV-B radiation-induced transcriptional network regulating plant morphogenesis and secondary metabolite production. ***Environmental and Experimental Botany***. 192:104655, https://doi.org/10.1016/j.envexpbot.2021.104655, IF=**4.5**, Q1.

9. Agrawal S. B., **Jaiswal D.** 2018. Impact of light stress on plant-based medicinally active compounds. ***International Journal of Plant and Environment***. 4(02):50-59, https://doi.org/10.18811/ijpen.v4i02.6, IF=N/A.

Book Chapters

10. Rai K., **Jaiswal D.**, Pandey A., Agrawal M., Agrawal S. B. 2023. UV-B: boon or curse? In *UV-B Radiation and Crop Growth* (pp. 23-54). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-19-3620-3_3.

11. Pandey A., **Jaiswal D.**, Agrawal M., Agrawal S. B. 2023. UVR8 Discovery: A New Vision in UV-B Research. In *UV-B Radiation and Crop Growth* (pp. 183-192). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-19-3620-3_9.

12. Pandey A., **Jaiswal D.**, Agrawal M., Agrawal S. B. 2023. Secondary Metabolites Biosynthesis and Related Gene Expression Under Ultraviolet-B Radiation. In *Stress-responsive Factors and Molecular Farming in Medicinal Plants* (pp. 155-168). Springer. https://doi.org/10.1007/978-981-99-4480-4_10.

13. **Jaiswal D.**, Pandey A., Agrawal S. B. 2021. Role of glutathione in enhancing plant tolerance to organic pollutants. In *Handbook of Bioremediation* (pp. 523-533). Academic Press. https://doi.org/10.1016/B978-0-12-819382-2.00033-8.

14. **Jaiswal D.**, Pandey A., Agrawal S. B. 2020. Physiological, Biochemical, and Molecular Responses of the Plants Against Enhanced Ultraviolet B and Heavy Metal Stress. In *Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives I* (pp. 513-554). Springer. https://doi.org/10.1007/978-981-15-2156-0_17.

Research Projects (Major Grants/Research Collaboration)

NA

Awards

NA

Scientific Services

NA