Dr. Vishavjeet Rathee

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Address: 15 Police Line Area, Hisar, Haryana



Date of Birth: 15-10-1996

Nationality: Indian

Teaching Experience

Assistant Professor (Galgotias University, Greater Noida) October 2025- till now

Assistant Professor (CRM JAT College, Hisar) 2 months

Assistant Professor (SIASTE, KUK, Kurukshetra) 2 months

EDUCATION

YEAR	Degree/Examination	Institution/Board	CGPA/Percentage
2024	Ph.D. (Zoology)	Kurukshetra University, Kurukshetra	Awarded (85%)
2019	M.Sc. (Zoology)	Panjab University, Chandigarh	82.24%
2017	B.Sc. (H) (Zoology)	Hansraj College, Delhi University, Delhi	84.40%
2014	Higher Secondary	Govt. Co-Ed. S.S.S. R.K. Puram, Sec V, New Delhi	91.20%
2012	Secondary	K.L.Arya D.A.V. Public School, Hisar	95%

- **Details of PhD:**
  - **PhD Thesis Title: Studies on mechanisms of titanium dioxide nanoparticles induced reproductive toxicity in testicular germ cells of goat (Capra hircus)**
  - Mode of PhD (Full Time/Part Time): Full Time
  - Name of the University: Kurukshetra University
  - Date of Registration:31-08-2020
  - Date of completion: 08-08-2024
  - Date of Award: 09-12-2024

NET/JRF- 2 times, GATE – Qualified.

Certificate Course

2025	GIS certificate course	University of California, Davis	100%

- **Publications**

  12 SCIE/SCI

  01 Scopus

  1 Book

  4 Book chapters

  4 Patents

Research Project-02 (Completed)

Publications (some)

1. Neamah WH, Al-Sudani ZA, Hasan FA, Al-Hashemi FH, Ahlawat YK, Sharma P, Rathee V, Malik A, Varma S, Kumar V. Biostimulants combination enhance the metabolites content of brassica Oleracea var. Botrytis curds cultivated in the desert region of Basrah Governorate. BMC Plant Biol. 2026 Mar 4;26(1):653. doi: 10.1186/s12870-026-08237-y. PMID: 41781856; PMCID: PMC13067605.
2. Sharma, D., Lakra, N., Ahlawat, Y. K., Biswal, A. K., Malik, A., Vishavjeet Rathee, & Muhie, S. H. (2026). *KNAT7 transcription factor regulates metabolite and ion profiles to control cell wall biosynthesis in Populus*. **Scientific Reports, 16**, 9373. https://doi.org/10.1038/s41598-026-9373
3. Rathee, V.; Ahlawat, Y.K.; Singh, R.; Bhardwaj, J.K.; Kaur, A.; Kumar, S.; Sharma, P.; Choudhary, R.; Didwania, N.; Kumar, D.; et al. Microplastics and Health: A Review on Environmental Exposure, Toxicokinetics and Biological Effects. *Sustainability* **2026**, *18*, 3527. https://doi.org/10.3390/su18073527
4. Bhardwaj, J.K., and Rathee, V. (2023). Toxicological Impact of Nanoparticles on Reproductive System: A Review. Toxicology International, 30 (4), 605-628. IF 0.56.
5. Bhardwaj, J.K., Kumar, V., Saraf, P., Panchal, H., Rathee, V., and Sachdeva S.N. (2021). Efficacy of N-acetyl-L-cysteine against glyphosate induced oxidative stress and apoptosis in testicular germ cells preventing infertility. Journal of Biochemical and Molecular Toxicology, 36(4), e22979. IF 3.568.
6. Rathee, V., Bikal, P., Siwach, A., and Bhardwaj, J.K. (2024). Effective Attenuation of Paraquat Induced Oxidative Stress and Genotoxicity in Testicular Germ Cells by Vitamin E in Caprines. Toxicology Research. IF 2.2

Vishavjeet Rathee

Publications	9
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Efficacy of N-acetyl- l-cysteine against glyphosate induced oxidative stress and apoptosis in testicular germ cells preventing infertility

J. Bhardwaj · Vijay Kumar · P. Saraf · Harish Panchal · Vishavjeet Rathee · S. N. Sachdeva

Environmental Science, Medicine · Journal of biochemical and molecular toxicology · 28 December 2021

TLDR Reduced GLY toxicity due to NAC will prove NAC to be an excellent approach for dealing with male reproductive toxicity at the cellular level, benefiting the mammalian reproductive status. Expand

13 · 1 · Wiley · Save · Alert · Cite

Toxicological Impact of Nanoparticles on Reproductive System: A Review

J. Bhardwaj · Vishavjeet Rathee · Environmental Science, Medicine · Toxicology International · 11 December 2023

TLDR NPs may enhance inflammatory response, and oxidative stress, and produce ROS damage, which leads to cytotoxicity at both molecular and genetic levels, and their potential toxicity mechanisms such as oxidative damage, apoptosis, inflammation as well as genotoxicity are addressed. Expand

6 · PDF · Publisher · Save · Alert · Cite

Ubiquitin Ligases in pro-atrophic and antiatrophic signaling cascades in muscles

Ajay Singh · Vishavjeet Rathee · Medicine, Biology · Molecular Biology Reports · 30 June 2026

TLDR The involvement of other highly expressed E3 ubiquitin-protein ligases in SkM i.e., TRIM7, UBE2O, MIB2, and CHIP are also important factors in SkM atrophy. Expand

Springer Nature · Save · Alert · Cite

Biostimulants combination enhance the metabolites content of brassica Oleracea var. Botrytis curds cultivated in the desert region of Basrah Governorate

W. Neamah · Zainab A. Al-sudani · +7 authors · Virinder Kumar

Environmental Science, Agricultural and Food Sciences · BMC Plant Biology · 4 March 2026

TLDR These findings demonstrate that the synergistic effect of LRE and BYE biostimulants can reprogram primary and secondary metabolism, strengthening stress resilience and improving the

Microplastics and Health: A Review on Environmental Exposure, Toxicokinetics and Biological Effects

Vishavjeet Rathee · Yogesh K. Ahlawat · +8 authors · Shivankar Agarwal · Environmental Science, Medicine · Sustainability · 3 April 2026

TLDR An in-depth analysis of the existing molecular understanding of MP-induced toxicity is offered, demonstrates organism-level impacts throughout species, and establishes vital fields for future studies. Expand

2 · Publisher · Save · Alert · Cite

Microplastics across marine food webs: bioaccumulation, exposome interactions, and emerging oncogenic risks

Manpreet Kaur · Sahil Sharma · +7 authors · Anurag Malik · Environmental Science, Medicine · Environmental Geochemistry and Health · 1 June 2026

TLDR There are significant knowledge gaps in rapid advances in dose–response relationship determination, generalizable nanoplastic detection methods, and long-term epidemiology that shows a cause-and-effect relationship between environmental exposure and clinical outcomes, which indicates a requirement for interdisciplinary expertise in dealing with microplastic hazards in marine ecology, toxicology, biomedical science, and environmental governance. Expand

Springer Nature · Save · Alert · Cite

Plant-based milk alternatives with a focus on millet milk for nutrition, health, and sustainability

Vishavjeet Rathee · Dravin Pratap Singh · +7 authors · Sachin Gupta

Agricultural and Food Sciences, Environmental Science · Chemical and Biological Technologies in… · 24 May 2026

Publisher · Save · Alert · Cite

KNAT7 transcription factor regulates metabolite and ion profiles to control cell wall biosynthesis in Populus

Divya Sharma · Nita Lakra · +4 authors · S. Muhie · Environmental Science, Biology · Scientific Reports · 17 February 2026

TLDR Overall, the findings indicate that KNAT7 modulates metabolite and ion homeostasis in support of secondary cell wall biosynthesis, underscoring its potential utility for genetic improvement of wood quality and bioenergy-related traits in poplar. Expand

PubMed · Save · Alert · Cite

Effective attenuation of Paraquat induced oxidative stress and Genotoxicity in testicular germ cells by vitamin E in Caprines.

Vishavjeet Rathee · Prerna Bikal · Anshu Siwach · J. Bhardwaj · Environmental Science, Medicine · Toxicological Research · 2 September 2024

TLDR It is concluded that Vitamin E co-administration considerably reduced the toxicity of paraquat elicited in testicles, suggesting that Vitamin E may have advantageous potential in preventing the male gonadotoxicity caused by paraquat use in agriculture. Expand

4 · PubMed · Save · Alert · Cite

Other Academic Achievements

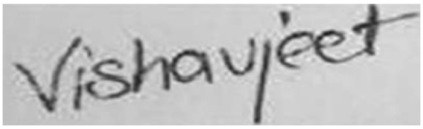
INDIRA AWARD 2014

NET-JRF 2 Times

CSSS Fellowship and INSPIRE internship

Declaration

I **Vishavjeet Rathee**, do hereby declare that all statements are true, complete and correct to best of my knowledge and belief.



Dr. Vishavjeet Rathee