

Ravi Kumar Yadav

Designation: Assistant Professor

Department: Botany, K. N. Govt. PG College, Gyanpur, Bhadohi, U.P. 221304

Qualification: M.Sc. (Botany), CSIR- NET, JRF, GATE, ARS-NET

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Academic Qualification

Qualification	Institution	Year	Division	%
M.Sc. (Botany)	University of Allahabad	2015	First	74.55
B.Sc. (Botany, Zoology, Chem.)	University of Allahabad	2013	First	70.59
Intermediate	S.Ranveer Inter college Amethi	2010	First	71.60
High School	S.Ranveer Inter college Amethi	2008	Second	58.16

Memberships

1. Indian Science Congress Association, Life member. L37876
2. Blue Planet Society, Life member.
3. Life membership of Indian Botanical Society (IBS). 2257.

Academic Achievement/ Scholarship.

1. 2011-12 Selected for merit cum means scholarship during graduation.
2. 2015- Qualified and secured AIR 61, CSIR- NET (LS)
3. 2015- Qualified CSIR/UGC-JRF with AIR 99.
4. 2015- Qualified GATE- Life science.
5. 2017- Qualified ARS NET.
6. 2018- Qualified GATE – Life science AIR – 504.
7. 2019- Qualified CSIR-JRF.
8. 2018- Selected as Assistant Professor MPPSC Rank 8.
9. 2017- Selected as Assistant Professor UPPSC Rank 3.

Research Publications:

1. **Yadav, Ravi Kumar**, N. B. Singh, Ajey Singh, Vijaya Yadav, Chanda Bano, and Shubhra Khare. "Expanding the horizons of nanotechnology in agriculture: recent advances, challenges and future perspectives." *Vegetos* 33, no. 2 (2020): 203-221.
2. **Yadav, Ravi Kumar**, N. B. Singh, Ajey Singh, Vijaya Yadav, K. M. Niharika, and Shubhra Khare. "Bio-based synthesis of nano silver using *Tridax procumbens* leaf extract and its impacts on germination and metabolic activity of *Solanum lycopersicum* L." *Journal of Plant Biochemistry and Biotechnology* 30, no. 3 (2021): 602-607.
3. Khare, Shubhra, N. B. Singh, Ajey Singh, Imtiyaz Hussain, Km Niharika, Vijaya Yadav, Chanda Bano, **Ravi Kumar Yadav**, and Nimisha Amist. "Plant secondary metabolites synthesis and their regulations under biotic and abiotic constraints." *Journal of Plant Biology* 63, no. 3 (2020): 203-216.
4. Singh, Narsingh Bahadur, Ajey Singh, Shubhra Khare, Vijaya Yadav, Chanda Bano, and **Ravi Kumar Yadav**. "Mitigating strategies of gibberellins in various environmental cues and their crosstalk with other hormonal pathways in plants: a review." *Plant Molecular Biology Reporter* 39, no. 1 (2021): 34-49.
5. Singh, Narsingh Bahadur, Shubhra Khare, Ajey Singh, Vijaya Yadav, and **Ravi Kumar Yadav**. "Kinetin modulates physiological and biochemical attributes of *Vigna radiata* L. seedlings exposed to 2-benzoxazolinone stress." *Biologia* 76, no. 5 (2021): 1377-1389.
6. Niharika., N. B. Singh, Shubhra Khare, Ajey Singh, Vijaya Yadav, and **Ravi Kumar Yadav**. "Attenuation of vanillic acid toxicity by foliar application with indole-3-acetic acid in tomato seedlings." *International Journal of Vegetable Science* (2021): 1-22.
7. Niharika., N. B. Singh, Shubhra Khare, Ajey Singh, Vijaya Yadav, and **Ravi Kumar Yadav**. Salicylic acid and Indole acetic acid synergistically ameliorates Ferulic acid toxicity in *Brassica juncea* L. seedlings; *Plant physiology reports* <https://doi.org/10.1007/s40502-021-00617-w>.

Book Chapter Published:

1. Singh, Ajeay, N. B. Singh, Vijaya Yadav, Chanda Bano, Shubhra Khare, and **Ravi Kumar Yadav**. "Nod factor signaling in legume-Rhizobium symbiosis: Specificity and molecular genetics of nod factor signaling." In *Abiotic Stress and Legumes*, pp. 33-67. Academic Press, 2021.
2. **Yadav, Ravi Kumar**, Amit Kumar Singh, N. B. Singh, Niharika Singh, Shubhra Khare, and Abhay K. Pandey. "Green Synthesized Nanoparticle-Mediated Wastewater Treatment." In *Emerging Eco-friendly Green Technologies for Wastewater Treatment*, pp. 299-309. Springer, Singapore, 2020.
3. Singh, Amit Kumar, Harvesh Kumar Rana, **Ravi Kumar Yadav**, and Abhay K. Pandey. "Dual role of microalgae: phycoremediation coupled with biomass generation for biofuel production." In *Restoration of wetland ecosystem: a trajectory towards a sustainable environment*, pp. 161-178. Springer, Singapore, 2020.
4. Yadav, Tara Chand, Pallavi Saxena, Amit Kumar Srivastava, Amit Kumar Singh, **Ravi Kumar Yadav**, R. Prasad, and Vikas Pruthi. "Potential applications of chitosan nanocomposites: recent trends and challenges." *Advanced Functional Textiles and Polymers: Fabrication, Processing and Applications* (2019): 365-403.

Training/ workshops/Conferences:

1. Participated in 5th science conclave/ Inspire internship program, congregates of noble laureate organized by Department of science and technology and Indian institute of information technology Allahabad.
2. Attended a national workshop on inspiration for research: you can organize by MNNIT Allahabad.
3. Participated in a national workshop: SURKSHA at MNNIT Allahabad.
4. Participated in a National Seminar on GM Crops: challenge to the environment and health at Department of Botany University of Allahabad.
5. Participated in a workshop, Biodiversity awareness jointly organized by CSIR-NBRI and university of Allahabad.
6. Participated in a National conference on recent trends and advances in biotechnology at Centre of Biotechnology University of Allahabad.

7. Participated in a National Seminar on Science and technology for national development organized by Indian science congress association Allahabad chapter at Department of Botany University of Allahabad.
8. Attended four days National Workshop, 14-17 February 2017 on Computational Tools for Genomics and Proteomics Data Analysis at ICAR-National Bureau of Agriculturally Important Microorganisms Kushmaur, Maunath Bhanjan, 275103, UP.
9. Attended Global Initiative of Academic Network (GIAN) two week course on Genomics, Personalized Medicine and Ethics (161018H01) from 31 July to 11 Aug 2017 at MNNIT Allahabad.
10. Attended Global Initiative of Academic Network (GIAN) one week course on Nanomedicine with nanoparticles based diagnostics and therapy from 6 Nov. to 10 Nov. 2017 at MNNIT Allahabad.
11. Presented poster National seminar on reaching the unreached through science and technology. 24-25, February, 2018 organized by Allahabad Chapter of Indian science Congress Association.
12. Presented poster International symposium on indiscriminate development: Current scenario & socio-environmental challenges (IDCSC 2018). 18-19, March, 2018. Botanical Survey of India (BSI), Allahabad, (U.P.) India.
13. Presented a paper National seminar on Challenge and opportunities in life science Centre for Life science, Central university of Jharkhand.
14. Selected as Campus Ambassador for Red Brick Summit 2017 at IIM Ahmadabad.
15. Participated in a National Seminar on Science and technology for national development organized by Indian science congress association Allahabad chapter at Department of Botany University of Allahabad.
16. Golden Jubilee Celebration, Alumni Meet and Conference on Expanding horizons of Biochemistry. Dec. 01 2018 organized by department of Biochemistry University of Allahabad Prayagraj.
17. 88th Annual Session of NASI and Symposium on 'Science, Technology, and ecosystem for sustainable rural development', (6-8 December 2018) organized by the national academy of sciences, India (NASI),
18. Workshop on best practice in scientific publishing December 20, 2018 organized by J.K Institute of applied physics and technology in association with

Department of Biochemistry University of Allahabad Sponsored by society of electronics engineers and IET, Prayagrajcentre Allahabad.

19. National seminar on Present scenario of environmental challenges and issues (PSECI) 16December, 2018 organized by Department of Chemistry C.M.P Degree college University of Allahabad 211002.
20. Attended “National seminar on “Future India: Science and Technology” organized by “Indian Science Congress Association, Allahabad Chapter” Department of Chemistry, University of Allahabad. (February 22-24, 2019)
21. One week short term course on “New trends in waste water treatment and its reuse” (NTWT 2019). March 12-16, 2019 organized by MNNIT with the help of Department of Chemical Engineering, Prayagraj.
22. Participated in RTG Big data research Allahabad summer school organized by Allahabad University and interdisciplinary centre for scientific computing (IWR) of Heidelberg University from April 1-5 2019.
23. Presented a paper entitled as Global Conference Our biodiversity, our food and our health “**Effects of green synthesized Silver nanoparticle exposure on early growth and metabolism of *Solanum lycopersicum***”, organized by Botanical Survey of India and Blue planet society Allahabad, Allahabad (May 21-22 , 2019) awarded with best poster presentation.
24. Presented poster 6th International Conference on Environment and Ecology 24th to 26th February 2020