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**School:** School of Studies in Life Science  
**Department:** Botany  
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**Qualifications:** M.Sc., Ph.D.

**2010 – 2016** Ph.D. Work carried out under the supervision of Prof. P.B. Kirti at Department of plant sciences, University of Hyderabad, Hyderabad, India

**2007 – 2009** M.Sc. Botany, Banaras Hindu University, India

**2002 – 2005** B.Sc. Botany, D.D.U. Gorakhpur University, India

**Area of Interest/Specialization:** Plant stress physiology and molecular biology

**Experience:**

**12/2019 to date** Assistant Professor in Department of Botany, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur.

**3/2017 – 09/2019** Postdoctoral Research in the Department of fruit tree Sciences, Institute of Plant Sciences, Agricultural Research Organization (ARO), Ministry of Agriculture and Rural Development, Volcani, Israel

**7/2011 -10/2011** Visiting scholar in DAAD Program “A new passage to India” and “Pre PhD Module in Life Sciences” at the University of Münster, Germany

**Awards and Honors:**

**Research Projects:** Ongoing: UGC StartUP, Budget (10 Lacs), Duration (2 years)

**International Collaboration/Consultancy**

**Best Peer Reviewed Publication**

- Boyidi, P., Trishla, V.S., Botta, H.K., Yadav, D. and Kirti, P.B., 2021. Heterologous expression of rice annexin OsANN5 potentiates abiotic stress tolerance in transgenic tobacco through ROS amelioration. *Plant Stress*, 2, p.100022. <https://doi.org/10.1016/j.stress.2021.100022>
- Joshi, N. C., Yadav, D., Ratner, K., Kamara, I., Aviv-Sharon, E., Irihimovitch, V., & Charuvi, D. (2020). Sodium hydrosulfide priming improves the response of photosynthesis to overnight frost

and day high light in avocado (*Persea americana* Mill, cv. 'Hass'). *Physiologia plantarum*, 168(2), 394-405. <https://doi.org/10.1111/ppl.13023>

- Yadav, D. , Zemach, H., Belausov, E., Charuvi, D. (2019), Initial proplastid-to-chloroplast differentiation in the developing vegetative shoot apical meristem of *Arabidopsis*. *Biochemical and Biophysical Research Communications*. <https://doi.org/10.1016/j.bbrc.2019.09.019>
- Yadav, D., Boyidi, P., Ahmed, I., & Kirti, P. B. (2018). Plant annexins and their involvement in stress responses. *Environmental and Experimental Botany*, 155, 293-306. <https://doi.org/10.1016/j.envexpbot.2018.07.002>
- Ahmed, I., Yadav, D., Shukla, P., & Kirti, P. B. (2018). Heterologous expression of *Brassica juncea* annexin, *AnnBj2* confers salt tolerance and ABA insensitivity in transgenic tobacco seedlings. *Functional & Integrative Genomics*, 18(5), 569-579. <https://doi.org/10.1007/s10142-018-0614-z>
- Ahmed, I., Yadav, D., Shukla, P., Vineeth, T. V., Sharma, P. C., & Kirti, P. B. (2017). Constitutive expression of *Brassica juncea* annexin, *AnnBj2* confers salt tolerance and glucose and ABA insensitivity in mustard transgenic plants. *Plant Science*, 265, 12-28. <https://doi.org/10.1016/j.plantsci.2017.09.010>
- Shukla, P., Singh, N. K., Gautam, R., Ahmed, I., Yadav, D., Sharma, A., & Kirti, P. B. (2017). Molecular approaches for manipulating male sterility and strategies for fertility restoration in plants. *Molecular Biotechnology*, 59(9-10), 445-457. <https://doi.org/10.1007/s12033-017-0027-6>
- Yadav, D., Ahmed, I., Shukla, P., Boyidi, P., & Kirti, P. B. (2016). Overexpression of *Arabidopsis* *AnnAt8* alleviates abiotic stress in transgenic *Arabidopsis* and tobacco. *Plants*, 5(2), 18. <https://doi.org/10.3390/plants5020018>
- Yadav, D., Ahmed, I., & Kirti, P. B. (2015). Genome-wide identification and expression profiling of annexins in *Brassica rapa* and their phylogenetic sequence comparison with *B. juncea* and *A. thaliana* annexins. *Plant Gene*, 4, 109-124. <https://doi.org/10.1016/j.plgene.2015.10.001>
- Dalal, A., Kumar, A., Yadav, D., Gudla, T., Viehhauser, A., Dietz, K.-J., & Kirti, P. B. (2014). Alleviation of methyl viologen-mediated oxidative stress by *Brassica juncea* annexin-3 in transgenic *Arabidopsis*. *Plant Science*, 219, 9-18. <https://doi.org/10.1016/j.plantsci.2013.12.016>

### **Recent Books/Book Chapters/Monographs etc.**

Singh, J., Gupta, M., Singh, K. K., Kumar, A., Yadav, D., Wenjing, W., & Singh, P. K. (2021). Advancement in bioinformatics and microarray-based technologies for genome sequence analysis and its application in bioremediation of soil and water pollutants. In *Microbe Mediated Remediation of Environmental Contaminants* (pp. 209-225). Woodhead Publishing.

Singh, S. K., Shrivastava, A. K., Kumar, A., Singh, V. K., Yadav, D., Modi, A., ... & Singh, P. K. (2020). Cyanobacterial genome editing toolboxes: Recent advancement and future projections for basic and synthetic biology researches. In *Advances in Cyanobacterial Biology* (pp. 129-149). Academic Press.

Kumar, C., Chatterjee, A., Wenjing, W., Yadav, D., & Singh, P. K. (2020). Cyanobacteria: Potential and role for environmental remediation. In *Abatement of Environmental Pollutants* (pp. 193-202). Elsevier.

Singh, T., Singh, A., Wang, W., Yadav, D., Kumar, A., & Singh, P. K. (2019). Biosynthesized nanoparticles and its implications in agriculture. *Biological Synthesis of Nanoparticles and Their Applications*, 257-274.

**Research Supervision:** PG level: 8 (completed), 5(ongoing), Ph.D.: 1 (pursuing)

**Administrative Responsibilities:**

**Additional Information:**