

# SRI KARAN NARENDRA AGRICULTURE UNIVERSITY, JOBNER



Name: **Dr. Basant Kumar Dadrwal**

Designation: **Assistant Professor**

3. Subject: **Plant Physiology**

Department: **Department of Plant Physiology, SKN COA, Jobner**

Academic qualification: **Ph. D. (Agriculture ) in Plant Physiology**

Examination/ Degree	Year	University	Div. & of marks obtained/OGPA	Major Subject
B.Sc.	2015	SKN COA, SKNAU, JOBNER	1st Division, 66.20%	Agriculture
M.Sc.	2018	SKN COA, SKNAU, JOBNER	1 <sup>st</sup> Division, 77.10%,	Plant Physiology
Ph.D.	2022	I. A. S., Banaras Hindu University, Varanasi	1 <sup>st</sup> Division, 7.62/10.00	Plant Physiology
NET	2018	ASRB, ICAR New Delhi	52%	Plant Physiology

Titles of thesis:

- M. Sc. (Ag.): **Alleviation of adverse effects of salt stress in wheat by foliar treatment with ascobin**
- Ph.D.: **Effect of elevated fluoride levels on hydrolysis of starch during seed germination and alteration in antioxidant system in wheat (*Triticum aestivum* L.) plants**

Experience: 4 year

No. of students guided: Nil

## Specialization

- Plant/Crop Physiology & Seed physiology
- Stress Physiology
- Plant Growth Regulators
- Plant nutrition

## Publications Recent only

- No. of Research Papers: **06**
- Number of Articles : **10**

PUBLICATIONS:

- I. Kushwaha, S., Dwivedi, P., Kanaujia, A., Belwal, P., Yadav, N., Kushwaha, A., & **Dadrwal, B. K.** (2025). In-vitro Regeneration Potential of *Tinospora cordifolia* (Wild.) Miers Using Nodal Explant Grown in Murashige and Skoog (MS) Medium. *Plant Cell Biotechnology and Molecular Biology*, 26(5-6), 23-32.
- II. Yadav, N., Barman, K., Pal, A. K., Kanaujia, A., Belwal, P., Baite, N. A and **Dadrwal, B. K.** (2025). Modulating Antioxidant Capacity and Preserving Chlorophyll Levels in Pointed Gourd (*Trichosanthes dioica* Roxb.) through Synergistic Application of 6-Benzylaminopurine and Sodium Alginate Coating during Ambient Storage. *Journal of Scientific Research and Reports*, 31(5), 38-52.
- III. Gupta, V., Jamwal, G., Rai, G. K., Gupta, S. K., Shukla, R. M., **Dadrwal, B. K.**, & Aguilar, C. N. 2024. Biosynthesis of Biomolecules from Saffron as an Industrial Crop and Their Regulation, with Emphasis on the Chemistry, Extraction Methods, Identification Techniques, and Potential Applications in Human Health and Food: A Critical Comprehensive Review. *Biocatalysis and Agricultural Biotechnology*, 103260.
- IV. Verma, D. K., Prabhakar, P., Tripathy, S., **Dadrwal, B. K.**, Kumar, P., Srivastav, P. P., & Banerjee, M. 2024. In vitro and in silico evaluation of the antioxidant, anti-microbial and antihyperglycemic properties of giloy (*Tinospora cordifolia* L.) stem extract. *Biocatalysis and Agricultural Biotechnology*, 56, 103059.
- V. Anita Choudhary, D.K. Yadav, Rajesh Choudhary , M.R. Choudhary and Basant Kumar Dadarwal, Effects of Organic and Inorganic Fertilizers on Garlic (*Allium sativum* L.) Production Economics., *Frontiers in Crop Improvement* Vol 12 : 924-928 (Special Issue-II) July 2024, Print ISSN : 2393-8234 Online ISSN : 2454-6011
- VI. Karisma, Swaroop, N., & **Dadrwal, B. K.**, 2024, Effect of Fertilizer Doses and Vermicompost Application on Growth and Yield of Okra [*Abelmoschus esculentus* L.] var. Kashi Kranti. *International Journal of Plant & Soil Science*, 36(9), 723-728.

Book Chapter-:

- I. Dadarwal, B. K., Yadav, N., Chauhan, J., & Singhal, R. K. (2025). Plant Growth and Development Under High Night Temperatures. In *Impact of High Night Temperature on Plant Biology* (pp. 31-50). Apple Academic Press.
- II. **Dadarwal Basant Kumar**, Nitin Yadav, Jyoti Chauhan, and Rajesh Kumar Singhal ,Plant Growth and Development Under High Night Temperatures, *Impact of High Night Temperature on Plant Biology Toward Sustainable Plant Adaptation to Climate Change*, Apple Academic Press, E-Book ISBN: 9781003503415 Pages: 234pp

**Popular Articles:-**

- I. **बसंत कुमार दादरवाल**, मनोज कुमार शर्मा, डी एल बागड़ी, कृषि में जड़ों का स्वास्थ्य और वृद्धि: उत्पादकता बढ़ाने के लिए स्मार्ट खेती समाधान, कृषि स्मारिका, श्री कर्ण नरेन्द्र कृषि विश्वविद्यालय, जोबनेर, 79p
- II. किरण दूधवाल, गजानंद जाट, अशोक चौधरी और **बसंत कुमार दादरवाल**, कृषि में लाभकारी सुक्ष्म जीवों की क्षमता प्रणाली, कृषि स्मारिका, श्री कर्ण नरेन्द्र कृषि विश्वविद्यालय, जोबनेर, 87p
- III. राजवीर सिंह और **बसंत कुमार दादरवाल**, एकीकृत कृषि प्रणाली का खाद्य, पोषण, रोजगार में महत्व, New Era Agriculture magazine – Monthly Magazine, 2583-5173, March 2025
- IV. राजवीर सिंह और **बसंत कुमार दादरवाल**, सूक्ष्म सिंचाई: टिकाऊ कृषि के लिए एक अच्छा एवं प्रभावी विकल्प, New Era Agriculture magazine – Monthly Magazine, 2583-5173, March 2025
- V. Yadav, S., Bagdi, D. L., & Dadrwal, B. K. (2025). Role of Ascobin in Mitigation of Salinity Effects on Crops. The Agriculture Magazine, E-ISSN: 2583-1755, Volume-4, Issue-6, February, 2025.
- VI. Ipsita Maiti, Basant Kumar Dadarwal, Savita Jangde, The Crop Production: Technological Advancements in Plant Physiology, The Agriculture Magazine, E-ISSN: 2583-1755, Volume-4, Issue-6, February, 2025.
- VII. Yadav, S., Bagdi, D. L., & Dadrwal, B. K. Antioxidant Defense Activity under Elevated Fluoride in Crops. The Agriculture Magazine, E-ISSN: 2583-1755, Volume-4, Issue-5, January, 2025.
- VIII. N. Anthony Baite, Nitin Yadav and **Basant Kumar Dadrwal**, Role of Mulching in Weed Management: An Integrated Approach, The Agriculture Magazine, E-ISSN: 2583-1755, Volume-3, Issue-4, January, 2024.
- IX. Yadav, S., Bagdi, D. L., & Dadrwal, B. K. Seed Priming: A Catalyst for Enhanced Crop Growth and Development. The Agriculture Magazine, E-ISSN: 2583-1755, Volume-4, Issue-5, January, 2025.
- X. N. Anthony Baite, Nitin Yadav and **Basant Kumar Dadrwal**, CRISPR-Cas9 for Weed Management in Agricultural Crops: A Revolutionary Approach, The Agriculture Magazine, E-ISSN: 2583-1755, Volume-3, Issue-4, January, 2024

