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Field of Specialization : Plant Physiology



Name of Institute from where obtained M.Sc. degree:

IARI, NEW DELHI

Name of Institute from where obtained Ph.D. degree:

IARI, NEW DELHI

Joining date in ICAR : 7/2/2012

Publications (Top 10 Publications with first or corresponding author only):

1. Dwivedi SK., Basu S., Kumar S., Kumari S., Kumar A., Jha S., Mishra JS., Bhatt BP., Kumar G*. (2019). Enhanced antioxidant enzyme activities in developing anther contributes to heat stress alleviation and sustains grain yield in wheat. *Functional Plant Biol.* 46 (12): 1090-1102.
2. Dwivedi SK*, Arora A., Singh VP., Singh G.P. (2018). Induction of water deficit tolerance in wheat due to exogenous application of plant growth regulators: membrane stability, water relations and photosynthesis. *Photosynthetica.* 56 (2): 478-486.
4. Dwivedi SK*, Basu S., Kumar S., Kumar G., Prakash V., Kumar S., Mishra JS., Bhatt BP., Malviya N., Singh GP., Arora A. (2017) Heat stress induced impairment of starch mobilisation regulates pollen viability and grain yield in wheat: Study in Eastern Indo-Gangetic Plains. *Field Crops Res.* 206:106–114.
5. Dwivedi SK*, Kumar S., Bhakta N., Mishra JS., Singh SK., Singh AK. (2017). Improvement of submergence tolerance in rice through efficient application of potassium under submergence-prone rainfed ecology of Indo-Gangetic Plain. *Functional Plant Biol.* 44 (9): 907-916.
6. Kumar S., Dwivedi SK*, Basu S., Kumar G., Mishra JS., Koley T.K., Rao K.K., Choudhary A.K., Mondal S., Kumar Sanjeev., Bhakta N., Bhatt BP., Paul R.K., Kumar A. (2020). Anatomical, agro-morphological and physiological changes in rice under cumulative and stage specific drought conditions prevailed in eastern region of India. *Field Crops Res.* 245:107658.
7. Dwivedi SK*, Arora A., Singh VP., Sairam RK., Bhattacharya RC. (2016). Effect of sodium nitroprusside on differential activity of antioxidants and expression of SAGs in relation to vase life of gladiolus cut flowers. *Scientia Hort.* 210: 158-165.

8. Dwivedi SK., Arora A., Singh VP. (2019) Effect of exogenously applied plant growth regulators on the physiology and anti-oxidant activity of wheat under water deficit condition. Plant Physiol Reports. 24: 54-62.

9. Dwivedi SK., Kumar S., Mishra JS., Haris AA., Singh SK., Srivastava AK., Kumar A., Kumar V., Singh S., Bhatt BP. (2019). Effect of moisture regimes and sowing dates on wheat physiological process and yield attributes under rainfed ecosystem in eastern Indo-Gangetic Plain. Plant Physiol Reports. 24: 46-53.

Patent / Technologies / Varieties / Methodologies / System etc.:

1. Swarna Shreya rice variety (An aerobic rice variety) released through CVRC, GOI
2. Swarna Shakti Dhan (An aerobic rice variety) released through CVRC, GOI

No. of Students Guided (M.Sc.) :

No. of Students Guided (Ph.D.) :

Awards / Recognitions / Fellowship:

1. "Young scientist award" by Indian society for Plant Physiology, 2009.
2. "R.D. Asana Gold Medal Award -2019" by Indian society for Plant Physiology 2019.
3. "Young scientist award" by Society for Upliftment of Rural Youth (SURE), 2016.
4. "Award of Excellence" CAFT-2017 at Division of Biochemistry, IARI, New Delhi.
5. Got CSIR-Junior research Fellowship (JRF) in Life Science provided by CSIR (2010).