

Name of the Faculty	:	Dr. Sujata Bhargava
Designation	:	Professor and Head
Date of Birth	:	31 st MAY 1958
Qualifications	:	PhD
Research Interests	:	Physiological and molecular aspects of abiotic and biotic stress
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❖ **List of important recent publications: (Last 5 years)**

1. Chavan Vinodkumar, **Bhargava Sujata** and Kamble Avinash. Temporal modulation of oxidant and antioxidative responses in Brassica carinata during b-aminobutyric acid-induced resistance against A. brassicae. Physiology and Molecular Plant Pathology (in press, DOI:10.1016/j.pmpp.2013.03.002), Elsevier, USA, ISSN 0885-5765, **IF 1.38**.
2. **Sujata Bhargava** and Kshitija Sawant Drought stress adaptation: Metabolic adjustment and regulation of gene expression. Plant Breeding (2013) 132: 21–32. Blackwell Verlag GmbH, USA, ISSN 1439-0523 **IF 1.59**
3. Ashwathy Nair and **Sujata Bhargava**. Reduced mycorrhizal colonization (rnc) tomato mutant lacks expression of SymRK signalling pathway genes. Plant Signaling and Behavior (2012) 7: 1578-1583. Landes Bioscience, USA, ISSN 1559-2324, calculated **IF 2.0**
4. Hilal Ahmad Qazi, Sharayu Paranjpe and **Sujata Bhargava**. Stem sugar accumulation in sweet sorghum – Activity and expression of sucrose metabolizing enzymes and sucrose transporters. Journal Plant Physiology (2012) 169:605-613. Elsevier, USA, ISSN 0176-1617, **IF 2.79**
5. Vikas Patade, **Sujata Bhargava** and Penna Suprasanna. Effects of NaCl and iso-osmotic PEG stress on growth, osmolytes accumulation and antioxidant defense in cultured sugarcane cells. Plant Cell Tiss Organ Cult (2012) 108:279-286. Springer, Germany, ISSN 0167-6857, **IF 2.8**
6. Vikas Patade, **Sujata Bhargava** and Penna Suprasanna. Transcript expression profiling of stress responsive genes in response to short-term salt or PEG stress in sugarcane leaves. Molecular Biology Reports (2012) 39:3311-3318. Springer, The Netherlands, ISSN 1573-4978, **IF 2.9**
7. Vikas Patade, **Sujata Bhargava** and Penna Suprasanna. Salt and drought tolerance of sugarcane under iso-osmotic salt and water stress: growth, osmolytes accumulation and antioxidant defense. Journal of Plant Interaction (2011) 6:275-282. Taylor & Francis, UK, ISSN 1742-9153, **IF 0.64**
8. Pankaj Bihani, Bharat Char and **Sujata Bhargava**. Transgenic expression of Sorghum DREB2 in rice improves tolerance and yield under water limitation. Journal of Agricultural Science (2011) 149:95-101. Cambridge University Press, UK ISSN 0021-8596, **IF 2.04**
9. Amrita Srivastav, Sameet Mehta, Angelica Lindlof and **Sujata Bhargava**. Overrepresented promoter motifs in abiotic stress-induced DREB genes of rice and sorghum and their probable role in regulation of gene expression. Plant Signaling and Behavior (2010) 5:775-784. Landes Bioscience, USA, ISSN 1559-2324, calculated **IF 2.0**

10. Vikas Yadav Patade, **Sujata Bhargava**, Penna Suprasanna. Halopriming imparts tolerance to salt and PEG induced drought stress in sugarcane. *Agriculture, Ecosystems and Environment* (2009) 134: 24-28. Elsevier, USA, ISSN 0167-8809, **IF 3.00**

11. Dhiraj Naik, Durgeshwer Singh, Varsha Vartak, Sharayu Paranjpe, **Sujata Bhargava**. Assessment of morphological and genetic diversity in *Gmelina arborea* Roxb. *New Forests* (2009) 38:99-115. Springer, Netherlands, ISSN 1573-5095 **IF 1.2**

Ongoing Research Projects:

Title of Project	Funding agency	Duration	Total approved Cost of the Project (in Rs.)
Physiological and molecular responses to drought stress in <i>Sorghum bicolor</i>	BRNS-DAE	1-4-10 to 31-3-14	19,03,900
Role of brassinosteroids and arbuscular mycorrhizal fungi in priming for improved tolerance to pathogens	DST	17-8-10 to 16-8-13	23,00,000