

## DR. JAHID ALI MALIK

ASSISTANT PROFESSOR (BOTANY)

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## EDUCATIONAL QUALIFICATIONS

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**M.Sc. (Hons. School) , Ph.D.**

Department of Botany

Panjab University, Chandigarh

**Specialization:** Stress Physiology

## TESTS & EXAMS

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**UGC/CSIR National Eligibility Test (NET) for Lectureship**

**ICMR-JRF**

## SEMINARS & SYMPOSIA ATTENDED

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- \* 8<sup>th</sup> National Seminar on Orchid Conservation Improvement and commercialization, held at Panjab University, Chandigarh (March, 2006).
- \* 10<sup>th</sup> Punjab Science Congress held at DAV institute of engineering and technology, Jalandhar (February, 2007).
- \* 1<sup>st</sup> Chandigarh Science Congress, held at Panjab University, Chandigarh (March, 2007).
- \* 2<sup>nd</sup> Chandigarh Science Congress, held at Panjab University, Chandigarh (March, 2008).
- \* National Symposium on New Biology in Agriculture, held at Panjab University, Chandigarh (November, 2008).
- \* 13<sup>th</sup> Punjab Science Congress held at Panjab University, Chandigarh (February, 2010).

## KEY SKILLS

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- \* Knowledge of Chromatography, Spectroscopy, SDS PAGE, Microtomy and other biochemical wet lab techniques.

## PUBLICATIONS

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1. Effect of varying high temperatures during reproductive growth on reproductive function, oxidative stress and seed yield in chickpea genotypes differing in heat sensitivity (2013). Sanjeev Kumar, Prince Thakur, Neeru Kaushal,

**Jahid A. Malik**, P. Gaur & Harsh Nayyar Archives of Agronomy and Soil Science 59 823-843

2. Selenium antagonises the toxic effects of arsenic on mungbean (*Phaseolus aureus* Roxb.) plants by restricting its uptake and enhancing the antioxidative and detoxification mechanisms (2012) **Jahid A. Malik**, Shilpa Goel, Navneet Kaur, Shuchi Sharma, Inderjit Singh, Harsh Nayyar Environmental and Experimental Botany 77 242-248
3. Growth and Metabolic Responses of Maize (C4 species) and Rice (C3 Species) Genotypes to Cadmium Toxicity (2012). S. Goel, **J.A. Malik**, R. Awasthi, R. Sandhir and H. Nayyar Cereal Research Communications 40 (2) 225-234
4. Uptake and Distribution of Arsenic in Chickpea: Effects on Seed Yield and Seed Composition (2011) **Jahid A. Malik**, ShilpaGoel, RajatSandhir& Harsh Nayyar Communications in Soil Science and Plant Analysis, 42 (14) 1728-1738
5. Promotion of Growth in Mungbean (*Phaseolusaureus*Roxb.) by Selenium is Associated with Stimulation of Carbohydrate Metabolism (2011) **Jahid Ali Malik**, Sanjeev Kumar, Prince Thakur, Suchi Sharma, NavneetKaur, RamanPreetKaur, D. Pathania, KalpnaBhandhari, NeeruKaushal, Kamaljit Singh, AlokSrivastava, Harsh Nayyar Biol Trace Elem Res 143(1) 530-539
6. Growth and metabolic responses of contrasting chickpea (*Cicerarietinum* L.) genotypes to chilling stress at reproductive phase (2011) Sanjeev Kumar, **Jahid Malik**, Prince Thakur, SuchiKaistha, Kamal Dev Sharma, H. D. Upadhyaya, J. D. Berger, Harsh Nayyar ActaPhysiol Plant 33 779-787
7. Involvement of Proline in response of Chickpea (*Cicerarietinum* L.) to Chilling Stress at Reproductive Stage (2011) GurinderKaur, Sanjeev Kumar, Prince Thakur, **Jahid A. Malik**, KalpnaBhandhari, K.D. Sharma and Harsh Nayyar Scientia Hort 128 174-181
8. Cold stress effects on reproductive development in grain crops: an overview (2010) Prince Thakur, Sanjeev Kumar, **Jahid A. Malik**, Jens D. Berger and Harsh Nayyar Environment and Experimental Botany 67 429-443
9. Molecular approach for phytoremediation of metal-contaminated sites (2009) ShilpaGoel, **Jahid A. Malik** and Harsh Nayyar Archives of Agronomy and Soil Science 55:4 451-475

10. Evaluation of comparative effects of arsenic, cadmium, lead and mercury on growth and stress injury in chickpea (*Cicerarietinum* L.) seedlings (2008) **Jahid Ali Malik**, ShilpaGoel and Harsh Nayyar Jour Pl Sci Res 24 (2) 131-140
11. Cadmium Toxicity in Plants and Bioremediation (2007) ShilpaGoel, **Jahid Ali Malik**, Harsh Nayyar and I.S. Dua (2007).. Pb. Univ. Res. J (Science) 57 139-149
12. Toxicity of Arsenic in Plants: Effects and Adaptive Mechanisms (2006) **Jahid Ali Malik**, ShilpaGoel, Harsh Nayyar and I.S. Dua (2006) Pb. Univ. Res. J (Science) 56 137-143

#### ARTICLES IN BOOKS

1. Toxic Effects of Mercury on Plants: Current Developments and Remedial Measures (2008) ShilpaGoel, **Jahid Ali Malik** and Harsh Nayyar In: Advanced Topics in Biotechnology and Plant Biology (C.P. Malik, BhavneetKaur and ChitraWadhvani Eds.) MD Publications Pvt. Ltd., New Delhi 267-286
2. Biotechnological Approaches for Developing Stress Tolerant Crops: Current Development and Prospects (2008) Harsh Nayyar, **Jahid Ali Malik**, ShilpaGoel, Kamaljeet Singh and NeelamSetia In: Crop Improvement Strategies and Applications (R.C. Setia, Harsh Nayyar and NeelamSetiaEds). I.K. International Publishing House Pvt. Ltd., New Delhi, 158-178