Dr. Bhawna Saxena
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Web-Page/ Bio-data			
Academic Qualifications:	MSc., Ph.D		
Teaching Experience	11 years	**Research Experience**	7 years
Area of Research/ Specialization	Genomics		
Publications			

Research Publications

1. Kaur R, Majeed S, Kumar V, Mahajan R, **Saxena B** and Sharma D R. 2007. *In vitro* propagation and conservation of *Gentiana Kurroo*- A temperate medicinal herb. *The Journal of Plant Science Research*. 23(1-2):69-72.

2. **Saxena B**, Kaur R, Shivani, Kanwar H S, Dohroo N P, Majeed S and Sharma D R. 2009. Molecular tagging of gene for resistance to stalkrot (*Sclerotinia sclerotiorum*) in cauliflower (*Brassica oleracea* var. *botrytis*) using RAPD markers. *Advances in Horticultural Sciences*. 23(2): 108-112.

3. Kaur R, Shivani, **Saxena B**, Dohroo N P, Kanwar H S, Majeed S and Sharma D R. 2009. Detecting RAPD markers associated with blackrot resistance in cabbage (*Brassica oleracea* var. capitata). *Fruit, Vegetable and Cereal Science and Biotechnology*.3(1):12-15.

4. Kaur R, Panwar N, **Saxena B**, Raina R and Bharadwaj S V. 2009. Assesment of genetic stability in long term micropropagated plants of *Gentiana kurroo*-An endangered medicinal plant of temperate regions. *Journal of New Seeds*. 10(4): 236-244.

5. Kaur R, Sood P, Vikal Y, Kumar K, **Saxena B** and Sharma D R. 2010. Genetic characterization of walnut (*Juglans regia* L.) by random amplified polymorphic DNA. *Gene, Genome and Genomics*. 4 (special issue 1): 32-36.

6. **Saxena B**, Kaur R and Bhardwaj SV. 2011. Assessment of genetic diversity in cabbage cultivars using RAPD and SSR markers. *Journal of Crop Science and Biotechnology* 14

(3) : 85- 95.

7. Gupta S K, Jarial K, Kaur R and **Saxena B.** 2012. Evaluation of bellpepper (*Capsicum annum)* germplasm against leaf blight and fruitrot (*Phytopathora nicotianae* var. *nicotianae*) and genetic variability among genotypes. *Indian Phytopathology.*65(1). 38-44.

8. **Saxena B**, Subramaniyan M, Malhotra Karan, Bhavesh Neel and Kumar Shashi. 2013. Metabolic engineering of chloroplasts for artemisinic acid biosynthesis and impact on plant growth. *Journal of BioSciences* 39(1):1-9.

Book Chapters

1. Priyanka Srivastava, **Bhawna Saxena** and Bhoopander Giri 2017. Arbuscular mycorrhizal fungi: green approach/technology for sustainable agriculture and environment. In: Mycorrhiza - Nutrient Uptake, Biocontrol, Ecorestoration, Varma A, Prasad R and Tuteja N, (eds) Springer International Publishing AG, a part of Springer Nature, pp 355-376, ISBN: 978-3-319-68866-4. https://www.springer.com/in/book/9783319688664

2. **Bhawna Saxena** and Bhoopander Giri 2017. Arbuscular mycorrhizal association improves secondary metabolite production in medicinal and aromatic plants: a sustainable approach. In: Microbes and Sustainable Agriculture (Prasad R and Kumar N, eds) pp 1-31, I K International Publishing House, New Delhi ISBN 978938590948-1.

3. **Bhawna Saxena**, Kamlesh Shukla and Bhoopander Giri 2017. Arbuscular Mycorrhizal Fungi and Tolerance of Salt Stress in Plants. In: Arbuscular Mycorrhizas and Stress Tolerance of Plants (Wu Qiang-Sheng ed) pp 67-98, Springer Nature Singapore, ISBN 978-981-10-4114-3

4. Bhoopander Giri and **Bhawna Saxena** 2017. Response of arbuscular mycorrhizal fungi to global climate change and their role in terrestrial ecosystem C and N cycling. In: Mycorrhiza - Function, Diversity, State of the Art. Varma A, Prasad R, Tuteja N (eds) pp 305-327, Springer nature, Cham ISBN: 978-3-319-53063-5

eChapters for Institute of Life Long Learning (ILLL), University of Delhi, Delhi

1. Sharma KR and **Saxena B**. Morphology and Life cycle of Morphology and life cycles of *Aspergillus* and *Penicillium.*

2. Sharma KR and **Saxena B**. Morphology and Life cycle of Morphology and life cycles of *Saccharomyces* and *Peziza.*

3. Sharma KR and **Saxena B**. Morphology and Life cycle of Morphology and life cycles of *Alternaria* and *Neurospora*.

4. Giri B and **Saxena B**. Mycorrhizal Associations in Plant.