

Current Ph. D. students, their research topics and supervisors

Scholar	Research Topic	Supervisor
Bharat Joshi	Identification, characterization and validation of potential candidate genes influencing seed size in the oilseed crop, <i>Brassica juncea</i> (Indian mustard)	A Jagannath
Chandan Bharti Mishra	Crop improvement using a combination of genetic & bioinformatic approaches	A Jagannath
Rubina Chongtham	Transgenic approach for aphid resistance using RNAi	A Jagannath
Shivendra Kumar	Study of Crop using Molecular Markers	A Jagannath
Sonia Waikham (Submitted)	Development of transgenic plants using lectin genes from onion and garlic for introduction of aphid resistance in the oilseed crop, <i>Brassica juncea</i> (Indian mustard)	A Jagannath
Neha Shukla	Plant Biotechnology (Plant Nematode Molecular Interaction)	A Kumar
Nisha Lakhota	Molecular aspects of potato tuberization	A Kumar
Pritam Kaur	Molecular aspects of plant-nematode interaction	A Kumar
Vandna Patial	Genetic transformation of Safflower and improvement of the oilseed quality	A Kumar
Sudip Kumar Roy	Reproduction Biology of Threatened Tree Species	AK Pandey & AK Bhatnagar
Akram Gholami	Systematics of the genus <i>Alysicarpus</i> (Fabaceae)	AK Pandey
Mayank Dhar Dwivedi	Phylogeny & Phytogeography of <i>Zehneria</i>	AK Pandey
Neha Yadav	Reproductive Biology of RET Tree Species of Western and Central Himalayas	AK Pandey & AK Bhatnagar
Shabir Ahmad Rather	Systematics and molecular phylogeny of <i>Crotalaria</i> section <i>Calycinae</i> (Fabaceae)	AK Pandey
Shagun Danda	Systematics of the genus <i>Crotalaria</i> section <i>Crotalaria</i> (Fabaceae)	AK Pandey
Anjana Sagar	Effect of Arsenic on ultrastructure and secondary metabolites of a staple legume <i>Cicer arietinum</i>	AK Pandey & AK Bhatnagar
Devender Singh Meena	Systematics of the genus <i>Indigofera</i>	A K Pandey
Deepak Kumar Singh	Study of Heavy Metal Induced Toxicity and Detoxification mechanisms in plants with emphasis on glutathione phytochelatins and various antioxidants	CS Seth
Ashish Agnihotri	To deduce the interplay of Jasmonic acid, salicylic acid, abscisic acid and brassinosteroids in alleviation of lead-toxicity and to understand the roles of glutathione and phytochelatins as modulators of oxidative damage in <i>Brassica juncea</i> (L.)	CS Seth

Praveen Gupta	Modulation of growth, physiological and antioxidative responses by exogenous application of 24 Epibrassinolide and nitric oxide under the salt induced oxidative damage in Brassica juncea (L.)	CS Seth
Gaurav Kumar	Ecology and Biology of Marine Algae	D Sahoo
Kanchan Kumari	Characterisation of chlorophyllide a oxygenase in chlamydomonas and its expression in higher plant	D Sahoo
Salam Sonia Devi	Biology of Fresh Water Algae Phycology	D Sahoo
Shivangi	Study of economically important products from algae & their applications	D Sahoo
Ashish Kumar Choudhary	Studies on Lipid Desaturation in Lamiacea Family	G Mishra
Priyanka Verma	Study of Nutraceutical Potentials of Selective Algae	G Mishra
Shatakshi Pandit	Lipid Signalling in Arabidopsis	G Mishra
Shaweta Arora	Introduction of very long chain polyunsaturated fatty acid biosynthesis pathway in Indian mustard (Brassica Juucca)	G Mishra
Ankita Bidalia	Assessment of Plant Performance under Abiotic Stress	KS Rao
Archana Meena	Natural Resource Management	KS Rao
Konsam Nirmala Devi	Natural Resource Management with Reference to Wetland	KS Rao
Mohd. Hanief	Natural Resource Management and Sustainable Development	KS Rao
Neha Sharma	Climate Change And its Effect on Plants	KS Rao & AK Bhatnagar
Ankur R. Bhardwaj	Genome wide discovery and profiling of development and stress related non-coding and coding RNAs from Brassica juncea	M Agarwal
Bharti Kukreja	Functional Characterization of Novel Stress Re-regulated Mi RNAs	M Agarwal
Gopal Joshi	Temporal & Spatial Regulation of Genes in <i>Carthamus tinctorius</i>	M Agarwal
Priyanka Arora	Molecular Changes for adaptation to abiotic stresses in plants	M Agarwal
Somya Sinha	Enhancement of Abiotic Stress Tolerance using transgene technology	M Agarwal
Vivek Kumar Raxwal	Landscape of open chromatin in abiotic stresses and characterization of genome wide binding targets of HSF A7 family members in Arabidopsis thaliana	M Agarwal
Akshay Mamgain	Floristics & Diversity Studies on Flora of Nanda Devi Biosphere Reserve	PL Uniyal R Geeta
Julie Thakur	Conservation of Some Endangered Plants of Uttrakhand	PL Uniyal

Mayanglambam Leleeka Devi	Biology of Podestemaceae	PL Uniyal
Neha Mann	Reproductive biology of some gymnosperms	PL Uniyal
Pratibha Kumari	Bryophytes	PL Uniyal
Akanksha Madan	Reproductive Ecology – Impact of environmental stresses on Reproductive Traits of Plants	PL Uniyal & AK Bhatnagar
Shikha Prasad	Effect of climate change on vital ecosystems process and functions	R Baishya
Shubhangi Jain	Impact of abiotic stress on Ecology of Certain Native Tree species of Delhi	R Baishya
Urvashi Tomar	Understanding the mechanism of soil carbon sequestration in the ridge forest ecosystem of Delhi NCT	R Baishya
Ankita Sehrawat	S-nitrosoproteome analysis in Brassica juncea from apoplast to nucleus indicates nitric oxide and cold stress cross talk in stress, signalling and redox related pathways.	R Deswal
Bhavana Sharma	<i>Hippophae rhamnoides</i> Leaf and Berry Proteome Mining of Antifreeze Proteins	R Deswal
Prakriti Kashyap	Analyzing ICE and CBF Transcription factors involved in CBF Dependent cold stress signalling.	R Deswal
Ravi Gupta	Proteome Analysis of Sea Buckthorn	R Deswal
Shruti Sharma	Proteome analysis of <i>Dioscorea alata</i> in a search for biochemical & molecular markers	R Deswal
Eapsa Berry	Comparative analysis of corolla pigmentation patterns in angiosperm flowers	R Geeta
Paramananda Barman	The Phylogenetic Biology of Dioscorea: Transcriptome, Biochemical Activities and Storage Protein Dioscorin	R Geeta
Renu Puri	Phylogenetic Biogeographic Study on Some Indian Plant Taxa	R Geeta
Swati Singh	Evolutionary and functional analysis of cuticular wax genes	R Geeta
Esha Sharma	Molecular Interaction Among <i>Botrytis cinerea</i> And Chickpea Plant	R Kapoor
Shivangi Upadhyay	Plant-Micobe Interactions with respect to heavy metal stress	R Kapoor
Anjali Chaudhary	Developmental Biology of Flowering Plants	R Tandon
Chandan Barman	Reproductive Ecology, Seedling Establishment & Natural Recruitment of Threatened Tree Species	R Tandon
Divya Mohanty	Germ Line Transformation in Economically Important Plants	R Tandon
Remya Krishnan	Reproductive biology of flowering plants	R Tandon
Vineet Kumar Singh	Reproductive Biology of Flowering Plants	R Tandon

Yash Mangla	Reproductive Biology of <i>Hippophae rhamnoides</i>	R Tandon
Kadambini	Environmental Biology (Reproduction Biology of Tree Species).	R. Tandon
Aditi Jain	Promoter Characterization of Plant microRNA	S Das
Gauri Joshi	Functional diversity of promoter elements from <i>Brassica</i>	S Das
Neer Komal Singh	Plant microRNA Characterisation	S Das
Saurabh Anand	Studies on Molecular And Developmental Aspects of Gene Silencing	S Das
Heena Ambreen	Marker Development in Safflower	S Goel
Kamal Das	Genetic and Molecular Biology Marker for Sex determination in <i>Hippophae rhamnoides</i>	S Goel
Mohapatra Priyanka Tapankumar	Analysis of the Developmental Aspects in Apomixis using Expression Markers in Apomictic Addition lines of <i>Pennisetum glaucum</i>	S Goel
Amrita Singh	Molecular analysis of Genetic variations in selected crop taxa.	S Lakhanpaul
Sachin Kumar	Use of Molecular Tools for Genetic Improvement of Sesame.	S Lakhanpaul
Sandeep Kaushik	Molecular Genetics Investigations on the Lac Insect Host Plant Interactions	S Lakhanpaul
Vibhuti Singh	Biotechnological Approaches for <i>Sesame</i> Improvement	S Lakhanpaul
Sonal Malik	<u>Molecular systematics and phylogeny of selected Angiosperm taxa</u>	S Lakhanpaul
Pawan Kumar	Interactions of the herbivore <i>Pieris Brassicae</i> with Host Plants	S Mazumdar - Leighton
Sochanngam Kashung	Plant–Insect Interaction: Sericigenous Insects	S Mazumdar - Leighton
Tabasum Akhter	Biology of Plant-Insect Interactions in Pierid pests and their host plants	S Mazumdar - Leighton
Vivek Kumar Chaudhary	Ecological Restoration Biology	S Mazumdar - Leighton
Akansha Priya	DNA Barcoding of Plants	SB Babbar
Deepak Kumar Singh	<i>In Vitro</i> Morphogenesis or Cost/Effective Micropropagation of Economically Important Plants	SB Babbar
Deepshikha Chatterjee	Role of Nitric Oxide in Plant Growth and Development	SB Babbar
Karishma Shahi	<i>In-vitro</i> morphogenesis in selected angiosperms	SB Babbar
Saloni	DNA Barcoding of Medicinal Plants	SB Babbar
Samvedana Chauhan	Role of Nitric Oxide in Plant Growth and Development	SB Babbar
Shiva Tripathi	Tissue & Cell Culture of Selected Medicinally Important Plants	SB Babbar

Shreyasee Biswas	Effect of Mercury and Arsenic on Some Medical Plants	SB Babbar and AK Bhatnagar
Anita Thakur	Physiological and biochemical associated with seed development and germination in sunflower	SC Bhatla
Dhara Arora	Mechanisms of scavenging of reactive oxygen species in sunflower seedlings subjected to salt stress	SC Bhatla
Harmeet Kaur	Physiology of Salt stress in sunflower seedlings	SC Bhatla
Neha	Physiology of Salt stress in Sunflower	SC Bhatla
Niharika Bharti	Physiology of Adventitious Rooting in Plants	SC Bhatla
Prachi Jain	Biochemical and Physiological event associated with salt stress in sunflower seedlings	SC Bhatla
Soumya Mukherjee	Self Stress induced changes during seed germination in Sunflower	SC Bhatla
Saransh Gupta	Biotechnology of medicinal plants	V Agrawal
Dinesh Kumar	Plant Biotechnology of Crop plant	V Agrawal
Himanshi Kapoor	Biochemical and Functional Studies of Some Medicinal Plants in Relation to Cancer or Neurological Disorders	V Agrawal
Jatin Kumar	Generation of sex-linked molecular markers in dioecious plants	V Agrawal
Rajeshwari	<i>In-vitro</i> Approaches to Study and Overcome Abiotic Stresses In Crop Plants	V Agrawal
Siva Prasad Konwar Chetri	Plant Tissue Culture and Biotechnology	V Agrawal
Upasana Sharma	Bio technological and Biochemical Aspects of Some Endangered Medicinal Plants	V Agrawal
Anuj	Molecular Characterization of apomixis Associated Genes in <i>Cenchrus ciliaris</i>	V Bhat
Pankaj Kumar Agnihotri	Isolation and Characterization of Ovule Specific Promoters	V Bhat
Sazda Abdi	Fine Mapping of Apomixis locus by genetic Linkage and Linkage Dis-Equilibrium Mapping in <i>Cenchrus ciliaris</i>	V Bhat
Alok Kumar	Isolation & characterization of Lipase enzyme from <i>Thermoaction mycesvularis</i>	VP Singh
Hari Ram	Role of Plant Growth Promoting Rhizobacteria (PGPR) in Plant Productivity	VP Singh
Isha Kohli	Comparative Molecular Characterization of Bacterk from Different Habitats	VP Singh
Lebin Thomas	Isolation screening and Characterization of Tannase	VP Singh

	Producing Bracteria from Laterite	
Mohan Lal	Bio-Inoculants for Food Stability and Quality	VP Singh
Zeeshan UR Rahman	Metagenomic Analysis of Heavy-Metal Contaminated Sites	VP Singh
Piyush Mathur	Plant-Pathogen Interactions under enhanced carbon dioxide conditions	VP Singh & R Kapoor
Shantanu Mandal	Effect of arbuscular mycorrhizal fungi on production of secondary metabolites in medicinal plants	VP Singh & R Kapoor
Aakrati Agarwal	Stress Signalling in Crop Plants	Y Mudgil
Arpana Katiyar	Identification and molecular characterization of signaling components of N-MYC Down-regulated like proteins in root development	Y Mudgil
Nisha Khatri	Cloning and Characterization of K9D7 (ATSG43530) Involved in G-Protein	Y Mudgil