




Faculty Details proforma for DU Web-site

Title	Professor	First Name	Geeta	Last Name	R.	Photograph
Designation	Professor					
Address	Department of Botany University of Delhi Delhi 110007					
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Educational Qualifications						
Degree	Institution				Year	
Ph. D.	University of Arizona, Tucson, AZ, USA				1993	
M. Sc.	Miranda House, University of Delhi, Delhi, India				1974	
B. Sc.	Miranda House, University of Delhi, Delhi, India				1972	
Career Profile						
Professor, Department of Botany, University of Delhi, Delhi, India					2009-present	
Associate Professor, Department of Ecology and Evolution, SUNY, Stony Brook, NY, USA					2003-2011	
Assistant Professor, Department of Ecology and Evolution, SUNY, Stony Brook, NY, USA					1997-2003	
Scientist, Indian Council for Agricultural, India					1976-1997	
Lecturer, Miranda House, University of Delhi, Delhi, India					1974-1976	
Administrative Assignments						
<p>In-Charge, Library and Chair, Library Committee, Department of Botany</p> <p>Coordinator, Web site Committee, Department of Botany</p> <p>Member, Purchase Committee, Department of Botany</p> <p>Member, Gender Sensitization Committee, Department of Botany</p> <p>Member, Management Committee, Central Institute of Education Hostel</p> <p>Member, Management Committee, D. S. Kothari Hostel</p> <p>Member, Management Committee, NE Student's House for Women</p> <p>University Representative, Governing Body, Lady Irwin College</p>						
Areas of Interest / Specialization						
Phylogenetic Biology; Systematics and evolution of angiosperms (<i>Dioscorea</i> , <i>Rhododendron</i> , <i>Impatiens</i> , <i>Justicia</i> , <i>Mornga</i>); Evolution of leaf form and development; Molecular and genome evolution.						
Subjects Taught						
Evolutionary Biology, Systematics, Population Biology, Phylogenetics, Research Methodology and writing						
Time table of the subjects taught during the current semester						

S.No.	Subject	Days	Time	Classroom
1	Bot 202: Systematics, Evolution and Environ. Studies	Tue (Tutorial, Tests) Wed (Theory & Practical) Fri (Theory & Practical)	As necessary Theory: 09:45-10:40 Pract: 10:40-14:15 Theory: 08:45-0940 Pract: 10:40-14:15	Rm 37 Theory: Rm 37 Pract: Lab 22 Theory: Rm 37 Pract: Rm 22
2	Bot 305: Evolutionary Biology	Mon (Theory & Practical)	Theory: 0845-09:40 Pract: 09:40-12:25	Theory: Rm: 207 Pract: Lab 22
3	Bot 406: Advanced Plant Systematics	Tues (Theory & Practical)	Theory: 0845-10:35 Pract: 10:35-16:05	Theory: Rm 207 Pract: Lab 22
4	Bot 409: Dissertation	Saturday	09:00-12:00 (1*3 stdnts)	Rm 106
5	Ph.D. Coursework RM1, 3: Research Methodology and Writing EL12: Phylogenetic Biology	Mon: Theory & Practical Wed: Theory & Practical	11:00-16:00 11:00-17:00	Room 207 Room 207
Research Guidance				
Ms. Eapsa Berry, Ph. D. Ms. Renu Puri, Ph. D. Ms. Garima, Ph. D. Ms. Ritika Yadav, M. Phil.				
Publications Profile				
Singh S, Das S, Geeta R. A segmental duplication in the common ancestor of Brassicaceae is responsible for the origin of the paralogs <i>KCS6-KCS5</i> , which are not shared with other angiosperms. <i>Molecular Phylogenetics and Evolution</i> 126: 331-345. 2018.				
Barman P, Bhat KV, Geeta R. Phylogenetic analysis of Indian <i>Dioscorea</i> and comparison of secondary metabolite content with sampling across the tree. <i>Genetic Resources and Crop Evolution</i> 65: 1003-1012. 2018.				
Berry E, Sharma SK, Pandit MK, Geeta R. 2018. Evolutionary correlation between floral monosymmetry and corolla pigmentation patterns in <i>Rhododendron</i> . <i>Plant Systematics and Evolution</i> 304: 219-230. 2018.				
Singh S, Das S, Geeta R. Role of Cuticular Wax in Adaptation to Abiotic Stress: A Molecular Perspective. <i>Abiotic Stress-Mediated Sensing and Signaling in Plants: An Omics Perspective</i> . 155-182. Springer, Singapore. 2018.				
Barman P, Choudhary AK, Geeta R. A modified protocol yields high quality RNA from highly mucilaginous <i>Dioscorea</i> tubers. 3 <i>Biotech</i> (2017) 7: 150. https://doi.org/10.1007/s13205-017-0775-9 . 2017.				
Gholami A, Subramaniam S, Geeta R, Pandey AK. Molecular systematics of Indian <i>Alysicarpus</i> (Fabaceae) based on analyses of nuclear ribosomal DNA sequences. <i>J Gen</i> 96: 353-363. DOI 10.1007/s12041-017-0785-8. 2017.				
Geeta R. KNOX genes and shoot development in angiosperms: old actors in new roles? <i>Phytomorphology</i> 66: 57-69. 2016.				
Puri R, Barman P, Geeta R. A phylogenetic approach toward the understanding of disjunct distributions of plant taxa in Western Ghats and northeastern India. <i>Rheedea</i> 26:17-32. 2016.				
Rathore P, Geeta R, Das S. Microsynteny and phylogenetic analysis of tandemly organised miRNA families across five members of Brassicaceae reveals complex retention and loss history. <i>Plant Sci</i> 247: 35-48. 2016.				
Geeta R, Lohmann LG, Magallón S, Faith DP, Hendry A, Crandall K, De Meester L, Webb C, Prieur-Richard A-H, Mimura M, Conti E, Cracraft J, Forest F, Jaramillo C, Donoghue M, Yahara T. Biodiversity only makes sense in the light of evolution. <i>J. Biosci.</i> 39 doi/10.1007/s12038-014-9427-y. 2014.				
Sharma R, Geeta R, Bhat V. Male/Female gametophyte development in facultative apomictic plants of <i>Cenchrus ciliaris</i> (Poaceae) is asynchronous. <i>S. Afr. J. Bot.</i> 91:19-31. 2014.				
Subramaniam S, Pandey AK, Geeta R, Mort ME. Molecular systematics of Indian <i>Crotalaria</i> (Fabaceae) based on analyses of nuclear ribosomal ITS DNA sequences. <i>Plant Syst Evol</i> DOI 10.1007/s00606=013-0781-2. 2013.				
Publications in the Last one year				

<p>Singh S, Das S, Geeta R. A segmental duplication in the common ancestor of Brassicaceae is responsible for the origin of the paralogs <i>KCS6-KCS5</i>, which are not shared with other angiosperms. <i>Molecular Phylogenetics and Evolution</i> 126: 331-345. 2018.</p> <p>Barman P, Bhat KV, Geeta R. Phylogenetic analysis of Indian <i>Dioscorea</i> and comparison of secondary metabolite content with sampling across the tree. <i>Genetic Resources and Crop Evolution</i> 65: 1003-1012. 2018.</p> <p>Berry E, Sharma SK, Pandit MK, Geeta R. 2018. Evolutionary correlation between floral monosymmetry and corolla pigmentation patterns in <i>Rhododendron</i>. <i>Plant Systematics and Evolution</i> 304: 219-230. 2018.</p> <p>Singh S, Das S, Geeta R. Role of Cuticular Wax in Adaptation to Abiotic Stress: A Molecular Perspective. <i>Abiotic Stress-Mediated Sensing and Signaling in Plants: An Omics Perspective</i>. 155-182. Springer, Singapore. 2018.</p> <p>Barman P, Choudhary AK, Geeta R. A modified protocol yields high quality RNA from highly mucilaginous <i>Dioscorea</i> tubers. <i>3 Biotech</i> (2017) 7: 150. https://doi.org/10.1007/s13205-017-0775-9. 2017.</p>
Conference Organization/ Presentations (in the last three years)
<p>Presentations</p> <p>“Does corolla vein pigmentation in <i>Justicia adhatoda</i> affect pollinator preference, plant fitness, and petal surface microstructure?” Young Ecologists Talk & Interact, 17-20 January, 2016. Amity University. 2016.</p> <p>Invited Talks at Conferences</p> <p>“Phylogeny and Biogeography of some Indian plants.” Building bridges in biogeography - Gondwana to Laurasia, International Biogeography Society, Bengaluru. 26-28 September 2017</p> <p>“Science, Technology and Society” BioEpoch Annual Conference of the School of Biotechnology, Jawaharlal Nehru University, New Delhi. 24 March. 2017.</p> <p>“Systematics and Phylogenetic Analysis – What is the Question?” XXVI Annual Conference of Indian Association for Angiosperm Taxonomy and International Seminar on Conservation and Sustainable Utilization of Biodiversity, Kolhapur. 7-9 November. 2016.</p>
Research Projects (Major Grants/Research Collaboration)
<p>“Phylogenetic systematics and biogeography of <i>Impatiens</i>,” UGC-MRP, Rs.6.33 lakh, 2015-18, PI (ongoing)</p> <p>“Invasion ecology of <i>Prosopis juliflora</i> in context of biodiversity and conservation,” DBT, Rs. 67.77 lakh. 2015-18, Co-PI (ongoing)</p>
Awards and Distinctions
Association With Professional Bodies
<p>2016- Editor-in-Chief, <i>Phytomorphology</i>. International Society of Plant Morphologists, Delhi, India.</p> <p>2005- Editorial Board of the <i>American Journal of Botany</i>, Botanical Society of America, USA.</p> <p>2001- Editorial Board of the <i>Journal of Biosciences</i>. Indian Academy of Sciences, Bangalore, India.</p>
Other Activities
<p>Workshops, Minicourses Organized/Coordinated</p> <p>“Integrated Taxonomy—Recent Developments.” Workshop under AICOPTAX Programme, MoEF-CC, Departments of Botany and Environmental Sciences, 14-23 November, 2017.</p> <p>“The fate of carbon in forests: a functional traits approach.” Mini-course. Resource persons: Dr. Julieta Rosell, Institute of Ecology, National University of Mexico and Dr. Mark Olson, Institute of Biology, National University of Mexico. Department of Botany, 25-26 July, 2016.</p> <p>“Bayesian Phylogenetic Analysis: Theory and Practice.” Workshop. Resource person: Prof. Bruce Rannala, UC Davis, CA, USA. Department of Botany, 7 Jan, 2016.</p> <p>“Detecting connections between genotype and phenotype” Mini-course. Resource persons: **Prof. Neelima Sinha, University of California, Davis, CA, USA and INSA Dr. B. P. Pal Chair, 2015 and Dr. Aashish Ranjan, Staff Scientist III & Ramalingaswami Fellow, NIPGR, New Delhi. Department of Botany, 2 Sep, 2015.</p>

**Coordinated visit of Professor N.R. Sinha, University of California, Davis, CA, USA;
INSA Dr. B. P. Pal Chair 2015, August 30-September 7, 2016.

Invited Talks

“Apes-Ancestors, Cousins, or Us?” INSPIRE Camp, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, 6 July, 2018.

“Biodiversity and Bioresources: Through the Evolutionary Glass” Jawaharlal Nehru Rajkeeya Mahavidyalaya, Port Blair, 7 March, 2018.

“Datura in America and Asia – What does it have to do with Darwin or Wallace?” BSI Centre, Port Blair, 5 March, 2018.

“Datura/dhattUrA in America and Asia – What’s the connection with Darwin or Wallace?” Department of Biological Sciences, IISER, Bhopal, 13 February, 2018.

“What do you mean, nothing in biology makes sense except in the light of Evolution?” ANDC College, University of Delhi, 5 April 2016.

“Biodiversity studies: Molecular Biology, Biotechnology and Bioinformatics” Department of Plant Molecular Biology and Biotechnology, Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh, 4 Nov, 2015.

“Biodiversity and Bioresources: through the Evolutionary Glass.” Science, Society and Nature Public Lecture Series. Nehru Memorial Museum & Library, New Delhi. 3 April, 2014.

“Phylogenetic Reconstruction,” bioGENESIS Meeting, Aceh, Indonesia, 16 March 2013.

“Molecular Systematics” Conference on ‘Recent trends in Botany’, Yashwantrao Chavan Institute of Science, Satara, Maharashtra, 19 February, 2013.