




Faculty Details proforma for DU Web-site

(PLEASE FILL THIS IN AND Email it to websiteDU@du.ac.in and
cc: director@ducc.du.ac.in)

Title	Professor	First Name	Prem Lal	Last Name	Uniyal	Photograph
Designation						
Address		A – 2 / 7, Maurice Nagar, University of Delhi, Delhi-110007				
Phone No Office						
Residence		011-27666108				
Mobile		9968279822				
Email		uniyalpl@rediffmail.com				
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Panjab University, Chandigarh				1991	
M. Sc..	HNB Garhwal University, Srinagar, Uttarakhand				1984	
B. Sc..	Gurukul Kangri University, Haridwar, Uttarakhand				1982	
Career Profile						
Organization/Institution	Designation	Duration	Role			
Department of Botany, University of Delhi, Delhi	Professor	2009-Till DATE	Teaching and Research and other academic activities			
Department of Botany, University of Delhi, Delhi	Associate Professor	2006-2009	Teaching and Research and other academic activities			
Department of Botany, University of Delhi, Delhi	Reader	2003-2006	Teaching and Research and other academic activities			
Department of Botany, University of Delhi, Delhi	Lecturer	1999-2003	Teaching and Research			
Department of Botany, University of Delhi, Delhi	CSIR Pool Scientist	1998-1999	Research			
Department of Botany, University of Delhi, Delhi	Research Associate (CAS-UGC)	1993-1998	Teaching and Research			
Department of Botany, University of Delhi, Delhi	Research Associate (CSIR Research Project)	1992-1993	Research			
Administrative Assignments						
Areas of Interest / Specialization						
Bryophytes: Biosystematics, Cytology, Ecology Pteridophytes: Developmental Biology, Reproductive Biology Gymnosperms: Population Biology and Developmental Biology Lichens: Bio-active compounds Podostemaceae: Developmental Biology, Ecology						

Subjects Taught				
Bryology, Pteridology, Gymnosperms and Developmental Biology				
M.Sc Semester -I: Plant Diversity- Developmental Biology				
M.Sc. Semester-III : Advances in Archegoniatae				
Time table of the subjects taught during the current semester				
S.No	Subject	Days	Time	Classroom
1	M. Sc Botany (i) Semester-II, Bot 201- Developmental Biology	(i)Monday; Practical (ii)Thursday: Theory and Practical	Theory: 9.40 am- 10.35 am Practical: 10.35am -2.15 pm	Theory: #37 Practical:#26
	(ii) Semester –III Bot 303-Advanced in Archegoniatae	Monday: Theory & Practical Friday: Theory	Theory: 1.20pm -2.15 pm Practical: 2.15pm – 5.30 pm	Theory: #208 Practical:#43
	(iii) Semester- IV M.Sc. Dissertation	Saturday: Discussion	Discussion: 10.00 am -1.00 pm	Room; #312
2.	M. Phil. and Ph. D. (Course Work) (Botany) EL 1-Bryophyte diversity and Evolution	Thursday: Theory Friday : Practical	Theory: 2.00pm – 3.30 pm Practical: 2.00pm - 5.00 pm	Theory: #37 Practical: #311B
Research Guidance				
Ph.D.				
(1). 2009. Anil Kumar. Taxonomic Studies on the Grasses of Aravalli Ranges.				
(2). 2010. Sanavar. Comparative Studies on Heavy Metal Acquisition and Retention by Mosses of five different sites of India.				
(3). 2010. Praveen Kumar Sharma. Isolation, Biological Activity and Secondary metabolite Investigation of Antagonistic Bacteria.				
(4). 2010. Shantanu Suman. Mosses of Idduki district in Western Ghats.				
(5). 2011.Varnika Bhatia. Study on Molecular Approaches for Developing Aphid Resistance using Model Plant <i>Arabidopsis thaliana</i> .				
(6). 2011. H Govindaparyari. Morpho-taxonomic Studies on the Mosses of Imphal, Manipur.				
(7). 2014. M Leleeka Devi. Studies on three species of Podostemaceae with reference to Morphology, Reproductive biology, <i>In vitro</i> seed germination and Ecology.				
(8). 2015. Pratibha Kumari. Studies on Endophytic fungal Association in Bryophytes of some selected sites of Uttarakhand.				
(9). 2017. Akanksha Madan. Floral Rewards and Pollination Studies in <i>Cascabela thevetia</i> (L.) Lippold (Apocynaceae) with an Assessment of its Potential as a Food Source for Bees				
(10). 2017. Julie Thakur. Studies on the biology of two threatened species of the Himalayan Region <i>Pittosporun eriocarpum</i> Royle and <i>Crepidium acuminatum</i> (D.Don) Schlech. For developing their conservation strategies.				
(11). 2018. Akshay Mamgain. Morphological Variation and Distribution Pattern of <i>Rhododendron arboreum</i> Sm. in Uttarakhand, India. (Thesis submitted)				
M.Phil				
(1). 2004.Sanavar. Morphology and Distribution of Podostemaceae in India				

- (2). 2004. H Govindaparyi. An Insight to the Adaptive strategies of Bryophytes
- (3). 2004. Shantanu Suman. Bryophytes of Uttaranchal
- (4). 2005. Sunita Sharma. The Role of Bryophytes in Nutrient Cycling
- (5). 2006. M Leleeka Devi. Taxonomic Implications of Cell Pattern of Leaf and Peristome in Mosses
- (6). 2006. Amit Kumar Kaushik. Morphological studies in some members of Marchantiales (Bryophyta)
- (7). 2007. Shelly Sinha. Studies on the conducting tissue of the gametophyte in Musci in relation to growth form and habitat conditions
- (8). 2007. Anjana Singh. Studies on the conducting tissue of the gametophyte in Musci in relation to growth form and habitat conditions
- (9). 2008. Shweta Shekhar. Studies on the population variation in *Ephedra* in Himachal Pradesh
- (10). 2008. M Nivedita. Liverworts of Kedarnath Wild life Sanctuary, Western Himalaya
- (11). 2009. Jimni Singh. Systematic Studies on *Ephedra* of Ladakh Region, Jammu & Kashmir, India
- (12). 2010. Pratibha Kumari. Some Aspects of Biology of *Ephedra*
- (13). 2010. Divya Dandotiya. Status Survey of Bryophytes of India
- (14). 2011. Lebin Thomas. Advanced Studies in Gymnosperms
- (15). 2011. Devendra Kumar. Experimental Studies in *Taxus*.
- (16). 2012. Sonam Splanzim. Bryophytes of Ladakh
- (17). 2013. Nutan Singh. Studies on the diversity of mosses in North Sikkim
- (18). 2013. Priya Mishra. Studies on the morpho-anatomical variation in populations of *Taxus wallichiana* Zucc. In Western Himalaya
- (19). 2014. Manzoor Hussain. Listing of Medicinal Plant of Ladakh
- (20). 2014. Sneha Bisht. Survey of lichens of Uttarakhand.
- (21). 2015. Priti Giri. Studies on the Gametophyte development in some leptosporangiate ferns.
- (22). 2016. Parna Saha. Study of development of some fern species using *in vitro* culture methods
- (23). 2018. Himani Yadav (in Progress)

Publications Profile

Authored Book : 01
 Edited Book: 01
 Research Publications: 83
 Review articles/ Book Chapters : 27
 Popular Scientific articles: 1

Publications in the Last one year

1. Priti, Kumari P, Panwar G S and Uniyal P L. 2017. Studies on in vitro gametophyte development of *Onychium contiguum* (wall.) Hope Indian Fern Journal 34:117-123.
2. Mangain M, Bhandari PK, Semwal DP and Uniyal PL. 2017. Population Assessment, Mapping and Flowering Response of *Rhododendron arboreum* Sm. – A Keystone Species in Central Himalayan Region of Uttarakhand, India. International Journal of Ecology and Environmental Sciences 43 (3): 205-220. ISSN: 2320-5199 (Online)
3. Singh A, Sood A, Sharma P and Uniyal PL. 2017. Assessment of accumulation of some heavy metals in mosses of Idukki district, Kerala (Western Ghats), India. International Journal of Plant and Environment 3(1): 15-19.
4. Tyagi R, Singh A. Sood A and Uniyal PL. 2017. Abiotic stress responses in plants: potential targets on studying heavy metal stress tolerance in bryophytes. International Journal of Plant and Environment 3(1): 41-51

5. Panwar GS, Srivastava SK and Uniyal PL. 2017. Callus-mediated organogenesis in *Lilium polyphyllum* D. Don ex Royle: a critically endangered Astavarga plant. *Current Science* 113 (5): 946-951
6. Mann Neha, Uniyal PL and Lakhanpaul S. 2017. Studies on the phenology and breeding system in *Viola canescens* (Violaceae). *International Journal of Plant Reproductive Biology* 9(2): 125-128
7. Bhatia M, Priti, Uniyal PL and Madhusoodanan PV. 2017. Studies on the gametophyte development and reproductive behavior of *Acrostichum aureum* L. *International Journal of Plant Reproductive Biology* 9(2): 89-92
8. Tiwari P, Uniyal PL and Chaudhary E. 2017. Effect of sucrose on *in vitro* pollen germination of *Gloriosa superba* L. – a medicinal plant from the Garhwal Himalaya, India. *Environment Conservation Journal* 18(1&2): 183-187.
9. Bhandari P, Mamgain A and Uniyal PL. 2017. An ethnobotanical study and applications of medicinal plants by the local people of Basukedar Himalaya of Rudrprayag, Uttarakhand, India. *The Journal of Ethnobiology and Traditional Medicine* 128: 1305-1319

Review articles

1. Rawat DS, Tiwari P. and Uniyal PL. 2017. Understanding Plant community structure and regeneration dynamics for conservation of Biodiversity in Uttarakhand region. *Botanica* 66: 106-114.
2. Guglani A, Tammineni R and Uniyal PL. 2017. Excursion to Lansdowne. *The Botanica* 72-76

Conference Organization/ Presentations (in the last three years)

1. Prabha Sharma and P L Uniyal. 2018. Potential effect of disturbances on the survival of Medicinal plants and formulation of conservation and reintroduction strategies. Oral Presentation In: National Seminar on Ethnobotany and Traditional knowledge in Biodiversity Conservation. 8-9 March 2018, Baba Gulam Shah Badshah University, Rajouri
3. Bhandari, PK, Bhatia M, and Uniyal PL. 2017. Status of orchids in Uttarakhand. Poster In XXVII Annual Conference of Indian Association for Angiosperm Taxonomy & International Symposium on Plant Systematics, Priorities and Challenges 10-12 Nov 2017, Delhi University
4. Bhatia V, Sharma P and Uniyal P L. 2017. Assessment and Conservation of Indian Ephedra species through DNA Barcoding: A review. Poster In XXVII Annual Conference of Indian Association for Angiosperm Taxonomy & International Symposium on Plant Systematics, Priorities and Challenges 10-12 Nov 2017. Delhi University
5. Thakur J and Uniyal PL. 2017. Study on diversity of root-associated fungi of an Orchid *Crepidium acuminatum* (D. Don) Szlach: A rare and medicinally important taxon. (Poster). In: 29th Fungal Genetics Conference. Genetics Society of America. Asilomar Conference Centre, March 14-19, 2017 California.
6. Madan A, Uniyal PL, and Bhatnagar AK. 2017. Microbial diversity in Orchid nectar; trends and significance. National conference on Recent trends in biology, culture, conservation, commercialization and sustainable utilization of medicinally and floriculturally important orchids. Graphic Era University, Dehradun, March 24-26.
7. Thakur J and Uniyal PL. 2016. Ecological Niche Modeling for predicting suitable habitats for an endangered orchid species: *Malaxis acuminata* D. Don in India (Poster). In: Advances in Orchid biology with focus on climate change, medicinal and floricultural plants, and sustainable economic utilization. YSR Agricultural University, Venkataramgundam, Andhra Pradesh, February 26-28.
8. Thakur J, Uniyal PL and Pandey AK. 2016. Prediction of suitable habitats for *Skimmia laureola*

(Rutaceae): a rare medicinal plant via application of Ecological Niche Modeling. (Oral). In: Agro-technology, commerce and sustainable use of medicinal and aromatic plants, Society for conservation and resource development of medicinal plants, NAAS Complex, IARI, New Delhi, February 6-7.

9. Madan A, Uniyal PL and Bhatnagar AK. 2016. Nectar-disc development in *Thunbergia grandiflora* (Roxb. et Rottler) Roxb.(Acanthaceae) and its implications on pollination pp24th International Congress on Sexual Plant Rep[roduction, Arizona, USA, 18-23 March.
10. Bhatia V, Bhattacharya V and Uniyal PL. 2016. Cuticle protein gene; apotent target for control of sap-sucking aphid through RAN interference. Oral.pp 19. National Conference on Plant Science Research : Looking beyond 21st Century for Environment and Agricultural revolution. University of Delhi. 5-7 Feb .
11. Kathal R. Malhotra P. Uniyal PL and Kumar L. 2016. Phytoextraction pf Pb and Ni from polluted soil by *Brassica juncea* L. National Conference on Plant Science Research: Looking beyond 21st Century for Environment and Agricultural revolution. University of Delhi. 5-7 Feb .
12. Nebhnanian P et al and Uniyal PL .2016. Taxol and its potential role in health and disease. Poster.pp64. National Conference on Plant Science Research: Looking beyond 21st Century for Environment and Agricultural revolution. University of Delhi. 5-7 Feb .
13. Chaudhary E, Tiwari P and Uniyal PL. Analysis of proline content in raw honey of *Apis cerana indica* in Khirsoo block pf Pauri District, Uttarakhand.poster pp66. National Conference on Plant Science Research: Looking beyond 21st Century for Environment and Agricultural revolution. University of Delhi. 5-7 Feb.
14. Mann N, Priti and Uniyal PL. 2016. Distributional and reproductive variability in *Viola* members from central Himalayan region of Uttarakhand.poster pp 79. National Conference on Plant Science Research: Looking beyond 21st Century for Environment and Agricultural revolution. University of Delhi. 5-7 Feb.
15. Priti, Bhandari PK, Kumari P and Uniyal PL. 2015. Fungal association in epiphytic orchid *Pholidota articulata*. Poster: National Conference on Orchid Science and Commerce. Integration of Medicinal Orchids, Sustainable development and Societal Benefits. MVD University, Katra, Jammu. 13-15 Feb.
16. Mangain A, Uniyal PL, Semwal DP and Geeta R. 2015. Population survey and distribution status of *Rhododendron arboretum* (Ericaceae) in Uttarakhand Himalaya. International Seminar on Advancement in Angiosperm Systematics and Conservation, Calicut Univ.
17. Madan A, Uniyal PL, Bhatnagar AK. 2015. Distribution and micromorphology of bracteal (Extrafloral) nectarines in *Thunbergia grandiflora* (Roxb.ex Rottler) Roxb. (Acanthaceae). Poster, Abstract 74. In: 102nd Indian Science Congress, Mumbai 3-7 January.
18. Sourabh P, Thakur J and Uniyal PL. 2015. Habitat distribution, modeling for reintroduction of *Pittosporum eriocarpum* and *Lilium Polyphyllum*, two endangered medicinal plants of Western Himalaya.Poster Abstract 213 In : 102nd Indian Science Congress, Mumbai 3-7 January.
19. Thakur J, Sourabh P, Uniyal PL and Pandey AK. 2015. Micropropagation of *Pittosporum eriocarpum* Royle- a critically endangered, ethnomedicinally important plant.Abstact 217. In : 102nd Indian Science Congress, Mumbai 3-7 January
20. Uniyal PL & Sharma P. 2015. Research Need and Modeling for Mapping of Ecosystem Dynamics. Invited Lecture.IL 03. Innovative trends in Plants and Microbial Sciences. Jammu Univ. Jammu. 2-3 March.

Research Projects (Major Grants/Research Collaboration)

Research Project: Diversity and performance of key forest tree species and bryophytes in gap and non-gap areas along an altitudinal gradient in Uttarakhand. 2018-2021. SERB. New Delhi.

Awards and Distinctions

Association With Professional Bodies	
1	International Association of Bryologists, London
2	International Society of Plant Morphologists, Delhi
3	The Indian Fern Society, Chandigarh
4	Society of Plant Reproductive Biologists, Agra
5	Indian Bryological society, Lucknow
6	Indian Phycological Society, Delhi
7	Delhi University Botanical Society, Delhi
8	Indian Botanical Society, Bareilly
9	The Orchid Society of India, Chandigarh
Other Activities	

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.