



Faculty Details proforma for DU Web-site

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Dr.				
Designation	ASSOCIATE PROFESSOR			
Department	Botany			
Address Campus	DEPARTMENT OF BOTANY UNIVERSITY OF DELHI (NORTH CAMPUS), DELHI – 110 007			
Residence	C- 7 / 301 A Keshavpurem Lawrence Road , Delhi 110 035			
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Education				
Degree	Subject	Institution	Year	Details
Ph.D.	Botany (Bryology) Biosystematics	PANJAB UNIVERSITY, CHNADIGARH	1991	Thesis Topic: Cytotaxonomic studies on the Garhwal Himalayan Mosses
PG	Botany	HNB GARHWAL UNIVERSITY, SRINAGAR (GARHWAL)	1984	
UG	Botany, Zoology and Chemistry	GURUKUL KANGARI UNIVERSITY, HARDWAR	1982	Subjects : Botany
Career Profile				
Organization/Institution		Designation	Duration	Role
DEPARTMENT OF BOTANY,UNIVERSITY OF DELHI		ASSOCIATE PROFESSOR	2009-TIIL DATE	Teaching and Research
DEPARTMENT OF BOTANY,UNIVERSITY OF DELHI		READER	2003-2009	Teaching and Research
DEPARTMENT OF BOTANY,UNIVERSITY OF DELHI		LECTURER	2000-2003	Teaching and Research
DEPARTMENT OF BOTANY,UNIVERSITY OF DELHI		CSIR POOL SCIENTIST	1998-2000	Research
DEPARTMENT OF BOTANY,UNIVERSITY OF DELHI		RESEARCH ASSOCIATE (CAS-UGC)	1993-1998	Teaching and Research
DEPARTMENT OF BOTANY,UNIVERSITY OF DELHI		RESEARCH ASSOCIATE. CSIR	1991-1993	Research

	RESEARCH PROJECT		
Administrative Assignments			
Research Interests / Specialization			
BRYOLOGY : BIOSYSTEMATICS , CYTOLOGY, ECOLOGY GYMNOSPERMS : TAXONOMY AND DISTRIBUTION OF EPHEDRA PODOSTEMACEAE : DEVELOPMENTAL BIOLOGY, DISTRIBUTION , TAXONOMY			
Teaching Experience (Subjects/courses Taught)			
BRYOLOGY, Pteridology, Gymnosperms and Ecology Courses Taught : M.Sc Semester : Course paper 201, Developmental Biology- Plant Diversity M.Sc. Semester : Course paper 303: Advances in Archegonitae Biology of Bryophytes, Pteridophytes and Gymnosperms and Plant Ecology			
Publications (LAST FIVE YEARS)			
<u>Books/Monographs</u>			
Year of Publication	Title	Publisher	Co-author/s
2010	The Plant Wealth of Uttarakhand Himalaya	Jagdamba Publishing Company, New Delhi	BP Chamola, DP Semwal
<u>In indexed/Peer Reviewed Journals</u>			
Year of Publication	Title	Journal	Co-author/s
2013	<i>Asplenium nidus</i> , the bird's nest fern: Developmental studies and its conservation.	American Journal of Plant Sciences 4 (5 a): 45-48.	R Srivastava
2012	Differential responses of hydrogen peroxide, lipid peroxidation and antioxidant enzymes in <i>Azolla microphylla</i> exposed to paraquat and nitric oxide.	Biologia 67: 1119-1128.	Anjali Sood1, Charu Kalra & Sunil Pabbi.
2012	Host generated siRNAs Attenuate Protease Gene in <i>Myzus persicae</i> .	PLOS ONE 7 (10):e46343	V Bhatia, RC Bhattacharya, R Singh & RS Nirranjan.

1.

2012	Evaluation of species richness of acrocarpous mosses in Imphal district, Manipur, India.	Taiwania 57 (1):14-26	H Govindaparyari, P Kumari, YM Bahuguna
2012	Soil physico-chemical characteristics of bryophytic vegetation residing Kedarnath Wildlife Sanctuary (KWLS), Garhwal Himalaya, Uttarakhand, India.	Indian Journal of Science and Technology 5 (4): 2548-2553	Y M Bahuguna, S Gairola, D.P. Semwal, A.B. Bhatt.
2011	Antifungal activity of extracts of the lichens <i>Parmelia reticulata</i> , <i>Ramalina roesleri</i> , <i>Usnea longissima</i> and <i>Stereocaulon himalayense</i>	Archives of Phytopathology and Plant Protection 44 (13): 1300-1311	<u>M Goel</u> , <u>P K. Sharma</u> , <u>P. Dureja</u> , & <u>A. Rani</u> .
2011	Aphid resistance in <i>Brassica</i> Crops: Challenges, biotechnological Progress and emerging possibilities.	Biotechnology Advances. 29: 879-888	V Bhatia, RC Bhattacharya
2011	Effects of Paraquat on Lipid Peroxidation and Antioxidant Enzymes in Aquatic Fern <i>Azolla microphylla</i>	Russian Journal of Plant Physiology. 58 (4): 667–673	A Sood, S. Pabbi
2011	Checklist of bryophytes of India.	Archives for Bryology. 88:1-126	D Dandotiya, H Govindaparyari, S Suman
2011	Phytoremediation Potential of Aquatic Macrophyte, <i>Azolla</i> .	AMBIO- A Journal of Human Environment. 41:122–137	A Sood, R Prasanna & A S Ahluwalia.
2011	Isolation, characterization and antifungal activity of major constituents of the Himalayan lichen <i>Parmelia reticulata</i> Tayl.	Agricultural and Food Chemistry 59: 2299-2307	M Goel, P Dureja, A Rani, H Laatsch
2011	Study of almond gardens for recognition of the native late flowering and resistant to spring cold genotypes in Yazd Province, Iran,	Annals of Forestry 19 (2): 210-214	M Ghaffarian, AM Otaghvari
2010	Two new species of <i>Ephedra</i> (Ephedraceae) from the Western Himalayan region.	Systematic Botany 35 (4): 730-735	P Sharma, O Hammer.
2010	Isolation and identification of secondary metabolites from hexane extract of culture filtrate of <i>Bacillus licheniformis</i> MTCC 7445.	Archives of Phytopathology and Plant Protection 43 (16): 1636-1642	PK Sharma, M Goel, P Dureja
2010	Structure, Composition and dominance-diversity relations in three forest types of a part of Kedarnath Wildlife Sanctuary, Central Himalaya	Notulae Scinetifica Biologiae 2 (3): 128-132.	DP Semwal, AB Bhatt.
2010	Study on the Metal Absorption by two Mosses in Delhi Region (India).	Journal of American Science 6(3) :176-181.	S K Vats, A Singh, M Koul

2009	Insect Growth inhibition and antifeedant activity of Culture filtrate extracts of <i>Bacillus licheniformis</i> ,	Pesticide Research Journal 21(1): 20-26.	P K Sharma, M Goel & P Dureja.
2009	Taxonomic implication of conducting elements in the acrocarpous mosses.	Nelumbo 51:183-190	S Sinha, H Govindaparyi, & S Suman.
2009	Soil, nutrient storage under different forest types in a part of Central Himalaya, India	Annals of Forestry. 17 (1): 43 – 52	DP Semwal, Y M Bahuguna, A B Bhatt.
2008	Studies on <i>in vitro</i> seed germination and origin and development prostrate plant body in <i>Zeylanidium lichenoides</i>	Phytomorphology 58(1&2):73-79.	Sanavar, H Govindaparyi
2008	<i>Ephedra sumlingensis</i> Sharma & Uniyal (Ephedraceae)- a new species form Himachal Pradesh. India.	Bulletin of Botanical Survey of India 50 (1-4): 1-6	P Sharma
2008	Pattern of Bryophyte Richness in Relation to Landscape Features.	Asian Australasian J Plant Sci. Biotech. 2 (2): 76-79.	JC Ghildiyal
2008	Biodeteriorative impacts on bridges over Zayand-e-Rood river (Iran: Role of mosses and their control measures.	Journal of Scientific and Industrial Research 67: 377-380	S Shirzadian

Articles:

2013	<i>Cedrus deodara</i> (Roxb.) G. Don. a possible indicator of climate change and Himalayan informatics.	Climate Change & Himalayan Ecosystem - Indicator, Bio & Water Resources (Editors: J Sundersan, P Gupta, KM Santosh & Ram Booj. Scientific Publishers (India). Jodhpur. Pp 164-170.	P Sharma.
2011	Some ethno-medicinally important pteridophytes of India.	International Journal of Medicinal and Aromatic Plants 1 (1): 18-22.	P Kumari, AM Otaghavari, YM Bahuguna
2011	Cytotaxonomy and its Evolutionary Significance in the Evolution of Orchidaceae and Cyperaceae.	Plant Taxonomy: Past Present and Future (ed R Gupta). The Energy and Resources Institute, New Delhi	P Sharma

2011	Quantitative Assessment and Ethnobotanical Uses of Plants of Koti– Kanasar Forest Range (Jaunsar), Uttarakhand.	Biodiversity: An Overview (ed Mukesh Kumar, RK Gupta and GS Paliwal), IK Publishers, New Delhi	DP Semwal, P Sharma, H Govindaparyari
2010	Bryophytes: indicators and monitoring agents of pollution.	NeBIO 1 (1): 35-41.	H. Govindaparyari, M Leleeka, M Nivedita
2010	Traditional knowledge and conservation of <i>Taxus baccata</i> in Sikkim Himalaya.	NeBIO 1(1): 55-59	P Sharma .
2010	The Role of Bryophytes in Nutrient Cycling.	Current Trends in Plant Biology (Editors PC Trivedi and SK Sopory), Pp 232-254. Aviskar Publishers, Distributers, Jaipur	S. Sharma, D P Semwal.
2010	Plant diversity status and conservation aspects in Kanasar forest ranges, Uttarakhand	The Botanica 58: 29-32.	H Govindaparyari, Y M Bahuguna, D P Semwal
2009	Floral Morphology of Podostmaceae:A Conspectus	Flower-Retrospect and Prospect (Ed Y Vimla).SR Scientifc Publication, Delhi	P Khanduri, R Tandon, A Sehgal & H Y Mohan Ram.
2009	Association of Bryophytes with diverse living organisms.	The Botanica 57:53-58	H. Govindaparyari, M Leleeka
2008	Conversion of tobacco waste into compost.	Annals of Forestry 16 (1): 83-86.	A M Otaghviri

Conference Presentations

1. P Sharma, **P L Uniyal** & Jolanta Slowik. **2013** Rakhal (*Taxus*), Pangwalas and low cost technology: a route for sustainable development (Oral Presentation) pp. In: International German Alumni Summer School India: Millennium Goals and Traditional Knowledge for Sustainable Development and Biodiversity Conservation in India. Jawaharlal Nehru University, New Delhi. 17-25 April.
2. P Sharma & **PL Uniyal**. **2012**. Community involvement and conservation and conservation of *Taxus baccata* L. in Pangi Valley, Himachal Pradesh. 7th International Symposium of the International Society for development of Natural Product, Ethnopharmacology and Phytochemical Society, Amity University, Noida, November 15-17.
3. H Govindaparyari, P Kumari & **PL Uniyal**. **2012**. The adaptive importance of rhizoides in mosses. Pp 72. (Poster). In: International Conference and Workshop on Monitoring of Metals and Gasses in Plants with special reference to Bryophytes Physiology and Climate Change. Bareilly. 17-18 December.
4. YM Bahuguna, **P L Uniyal** & AB Bhatt. **2012**. Taxonomy and conservation of newly recorded liverworts and hornworts from Kedarnath Wildlife Sanctuary, Uttarakhand, India pp 47. (Invited

- lecture). In: Interantion Conference and Workshop on Monitoring of Metals and Gasses in Plants with special reference to Bryophytes Physiology and Climate Change. Bareilly. 17-18 December
5. P Sharma & P L Uniyal. 2012. Collaboration and awareness in Indian Universities for global resource management system/ sociopolitical processes (Abstract 110).pp 7. In: International Expert Consultation on Education for Conservation. Hyderabad, 16-17 October.
 6. P L Uniyal & P Sharma. 2012. *Taxus* as agricultural crop a boon to the local community farmers of Pangi Valley, Himachal Pradesh. pp 156.(Oral presentation).In: International Conference on Environment and Human Health. New Delhi. 28-29 November
 7. R Srivastava &P L Uniyal. 2012. *Asplenium nidus*: the bird nest fern: Developmental studies and its conservation. Pp112. (Oral presentation), In: International Conference on Environment and Human Health. New Delhi. 28-29 November.
 8. Bhatia V, Bhattacharya R and Uniyal PL. 2012. Silencing vital genes of *Muzus persicae* by plant – mediated RNAi imparts protection against sap sucking aphids. Poster Presentation In National conference on Biotechnology. University Agra. April 2012.
 9. P L Uniyal. 2012. Perspectives of research on lower plant groups. pp 4-5. Invited Lecture, In: National seminar on Plant Science Research in Human welfare. Bidhannagar College and Botanical Survey of India, Kolkata. 1-2 January
 10. P Sharma P. L. Uniyal. 2011. In need of conservation *Taxus baccata* L. in Himachal Pradesh. In: A global partnership for plant conservation – Supporting the worldwide implementation of the Global Strategy for Plant Conservation. Missouri Botanical Garden, St. Louis, USA, 5-7 July
 11. P Sharma, P. L. Uniyal and ØHammer. 2011. Phenotypic Plasticity leading to Sympatric speciation in populations of *Ephedra* in Lahaul and Spiti (India). XVIII International Botanical Congress. Melbourne, Australia. 23-30 July. ePoster ID Number: 7114
 12. P Sharma, P.L.Uniyal, S.B. Tripathi, M.S. Negi and A Schwekendiek 2011. The identity reveal: Four new morpho-molecular species within Section Pseudobaccatae of the genus *Ephedra* in Western Himalaya. Botany 2011 with the Society for Economic Botany, the American Fern Society (AFS), the American Society of Plant Taxonomists (ASPT), and the Botanical Society of America (BSA). St. Louis, MO July 9-13. Abstract ID:62
 13. M Goel, P Dureja, A Rani, P L Uniyal and H Laatsch.2010. Lichens: A novel source of antimicrobial agents .pp. Oral Presentation in the International Conference on Antimicrobial Research. Valladolid, Spain. 3-5 November.
 14. P Sharma and P. L. Uniyal. 2010. Conservation Governance and Policy Monitoring of Ecologically and Economically Significant Gymnosperms in North Sikkim Himalaya. Public Communication of Science & Technology (PCST) *Main-conference - New Delhi December 6-10. Pp. 97.
 15. D Dandotiya, H Govindaparyari and PL Uniyal. 2010. An overview of bryophyte diversity in Western Ghats. Poster Presentation in Fourth International Conference on Plants and Environmental Pollution

(ICPEP-4). NBRI, Lucknow. 8-11 December 2010.

16. S Suman, Sanavar and **PL Uniyal.2010**. Assessment of heavy metal copper pollution through mosses Poster Presentation in Fourth International Conference on Plants and Environmental Pollution (ICPEP-4). NBRI, Lucknow. 8-11 December 2010.
17. P Sharma and **P. L. Uniyal 2010**. Bioersivity – Preserving Western Himalayan *Ephedra*. German alumini Workshop on the “Local Knowledge & University Education for Sustainable use of natural resources and safeguarding of biodiversity”. Nov. 2010, New Delhi.
18. **P Kumari, P Sharma and P. L. Uniyal . 2010**. Biosystematic studies on Western Himalayan *Ephedra L.*. National Conference on Role of Bio-diversity in Sustainable Agriculture at Department of **Botany**, Bundelkhand University, **Jhansi** March 4-5.
19. P Sharma and **P. L. Uniyal 2010**. Morpho molecular differentiation within taxonomical complex Section Pseudobaccatae (subgenus *Ephedra*) of Western Himalaya. Botany 2010, Joint Meeting with the American Bryological & Lichenological Society, American Fern Society Providence, Rhode Island. July 31 - August 4.
20. P Sharma and **P. L. Uniyal. 2009**. Process, pattern and evolution of Western Himalayan *Ephedra*. First meeting of BioSyst EU 7th Biennial Conference of the Systematics Association and the 11th annual meeting of the Gesellschaft für Biologische Systematik (GfBS). Leiden, The Netherland. 10-14 August 2009. Pp. 121.
21. S Suman and **P L Unyial.2009**. Diversity of mosses in Iddukki District, Kerala (India). Oral presentation in International Conference IAB 2009. University of Cape Town, South Africa, 16-27 August 2009.
22. SK Vats, A Singh, M Koul, S Suman and **P L Unyial.2009**. Study on the metal absorption by two mosses in Delhi Region (India). Poster presentation in International Conference IAB 2009. University of Cape Town, South Africa, 16-27 August 2009.
23. Singh NJ, P Sharma and P L Uniyal. 2009. The need of effective modern conservation strategies for *Ephedra* in Western Himalaya. Paper presented in the National Conference on Medicinal; Plants of Himalaya- Traditional uses and Conservation Issues. 19-21 February, HNB Garhwal Univ, Srinagar (Garhwal)
24. Govindaparyari H, Y M Bahuguna and P L Uniyal.2009. Traditional Uses of Bryophytes. Paper presented in the National Conference on Medicinal; Plants of Himalaya- Traditional uses and Conservation Issues. 19-21 February, HNB Garhwal Univ, Srinagar (Garhwal).
25. H Govindaparyari, YM Bahuguna and P L Uniyal.2009. Bryophytes acquaintance with algae. Pp145. Presented in 7th Asia Pacific Conference on Algal Biotechnology, Algal Biotechnology in the Asia-Pacific Region: New Challenges and Opportunities for 21st Century, New Delhi India. 1-4 December.
26. P Sharma and **P. L. Uniyal. 2008**. Biodiversity characterization of *Ephedra* in Lahaul and Spiti (India). International Conference on Biodiversity Research – Safeguarding the future. Bonn, Germany. May 12 – 16. Pp. 59-60.

27. P Sharma, S Shekhar and **P. L. Uniyal. 2008.** Novel results from cuticular analysis of Ephedras of Western Himalayas. Asian Symposium on Medicinal Plants, Spices and Other Natural Products (ASOMPS) XIII. Hyderabad, India. November 3-6. Pp. 64.
28. P.K Sharma, M Goel, J Halder, RS Tanwar, S Dhingra, P Dureja and **P L Uniyal. 2008.** Isolation and Partial Purification of Antifungal and Antifeedant metabolites produced by *Bacillus licheniformis* MTCC 7445. Paper presented In: First International Conference on Agrochemicals Protecting Crop, Health and Natural Environment. PUSA, New Delhi. 8-11 January.
29. M Goel, PK Sharma, RS Tanwar, P Dureja, A Rani and **PL Uniyal 2008.** Antifungal and plant growth regulatory activity of lichens metabolites. Paper presented In: First International Conference on Agrochemicals Protecting Crop, Health and Natural Environment. PUSA, New Delhi, 8-11 January 2008

Total Publication Profile

Books

P L Uniyal, BP Chamola and DP Semwal.2010. **The Plant Wealth of Uttarakhand Himalaya**. Jagdamba Publishing Company, New Delhi. pp 436

In indexed/Peer Reviewed Journals

1. R Srivastava R and **P L Uniyal. 2013.** *Asplenium nidus*, the bird's nest fern: Developmental studies and its conservation. **American Journal of Plant Sciences.** 4 (5 a): 45-48.
2. Anjali Sood¹, Charu Kalra, Sunil Pabbi & **P. L. Uniyal. 2012.** Differential responses of hydrogen peroxide, lipid peroxidation and antioxidant enzymes in *Azolla microphylla* exposed to paraquat and nitric oxide. *Biologia* 67: 1119-1128.
3. V Bhatia , RC Bhattacharya, **P L Uniyal** R Singh & RS Niranjana.**2012.** Host generated siRNAs Attenuate Protease Gene in *Myzus persicae* . **PLOS ONE** 7 (10):e46343
4. H Govindaparyi, P Kumari, YM Bahuguna and **P L Uniyal. 2012.** Evaluation of species richness of acrocarpous mosses in Imphal district, Manipur, India. **Taiwania** 57 (1): 14-26
5. Y M Bahuguna, S Gairola, D.P. Semwal, **P.L. Uniyal** and A.B. Bhatt. **2012.** Soil physico-chemical characteristics of bryophytic vegetation residing Kedarnath Wildlife Sanctuary (KWLS), Garhwal Himalaya, Uttarakhand, India. **Indian Journal of Science and Technology** 5 (4): 2548-2553
6. V Bhatia, **P L Uniyal** & R Bhattacharya 2011. Aphid resistance in *Brassica* Crops: Challenges, biotechnological Progress and emerging possibilities. *Biotechnology Advances.* 29: 879-888
7. A Sood, **P L Uniyal**, R Prasanna & A S Ahluwalia. 2011. Phytoremediation Potential of Aquatic Macrophyte, *Azolla*. *AMBIO- A Journal of Human Environment.* 41:122-137

8. P Kumari, AM Otaghavari, YM Bahuguna and P L Uniyal. 2011. Some ethno-medicinally important pteridophytes of India. *International Journal of Medicinal and Aromatic Plants* 1 (1): 18-22.
9. M Goel, P.K. Sharma, P. Dureja, A. Rani & P. L. Uniyal. 2011. Antifungal activity of extracts of the lichens *Parmelia reticulata*, *Ramalina roesleri*, *Usnea longissima* and *Stereocaulon himalayense* **Archives of Phytopathology and Plant Protection** 44 (13): 1300-1311
10. M Ghaffarian , AM Otaghviri and **P L Uniyal.**2011. Study of almond gardens for recognition of the native late flowering and resistant to spring cold genotypes in Yazd Province, Iran, **Annals of Forestry** 19 (2): 210-214
11. D Dandotiya, H Govindaparyi, S Suman and **P L Uniyal.** 2011. Checklist of bryophytes of India **Archives for Bryology.** 88:1-126
12. A. Sood, S. Pabbi , and **P L Uniyal.** 2011. Effects of Paraquat on Lipid Peroxidation and Antioxidant Enzymes in Aquatic Fern *Azolla microphylla* **Russian Journal of Plant Physiology.** 58 (4): 667–673
13. P K Sharma, M Goel, P Dureja and **P.L. Uniyal.** 2010. Isolation and identification of secondary metabolites from hexane extract of culture filtrate of *Bacillus licheniformis* MTCC 7445. **Archives of Phytopathology and Plant Protection.**43 (16):1636–1642
14. M Goel, P Dureja, A Rani,& **P L Uniyal** and H Laatsch. 2011. Isolation, characterization and antifungal activity of major constituents of the Himalayan lichen *Parmelia reticulata* Tayl. **Agricultural and Food Chemistry** 59: 2299-2307
15. P Sharma, **P L Uniyal** and O Hammer. 2010. Two new species of *Ephedra* (Ephedraceae) from the Western Himalayan region. **Systematic Botany** 35 (4): 730-735.
16. DP Semwal, **P L Uniyal** and AB Bhatt. 2010. Structure, Composition and dominance-diversity relations in three forest types of a part of Kedarnath Wildlife Sanctuary, Central Himalaya. **Notulae Scientifica Biologicae** 2 (3) : 128-132
17. S K Vats, A Singh, M Koul and **P L Uniyal.** 2010. Study on the Metal Absorption by two Mosses in Delhi Region (India). **Journal of American Science** 6(3):176-181.
18. P K Sharma, M Goel, P Dureja & **P L Uniyal.** 2009. Insect Growth inhibition and antifeedant activity of Culture filtrate extracts of *Bacillus licheniformis*, **Pesticide Research Journal** 21(1): 20-26.
19. S Sinha, H Govindaparyi, S Suman and **P L Uniyal.** 2009. Taxonomic implication of conducting elements in the acrocarpous mosses. **Nelumbo** 51:183-190
20. DP Semwal **P L Uniyal**, Y M Bahuguna and A B Bhatt. 2009. Soil, nutrient storage under different forest types in a part of Central Himalaya, India. **Annals of Forestry.** 17 (1): 43 – 52
21. Sanavar, H Govindaparyi and **P L Uniyal** 2008. Studies on *in vitro* seed germination and origin and development prostrate plant body in *Zeylanidium lichenoides*. **Phytomorphology** 58(1& 2):73-79.
22. P Sharma and **P L Uniyal.** 2008 *Ephedra sumlingensis* Sharma & Uniyal (Ephedraceae)- a new species

form Himachal Pradesh. India. **Bulletin of Botanical Survey of India** 50 (1-4): 1-6

23. JC Ghildiyal and P L Uniyal. 2008. Pattern of Bryophyte Richness in Relation to Landscape Features. **Asian Australasian J Plant Sci. Biotech.** 2 (2): 76-79.
24. S Shirzadian and P L Uniyal. 2008. Biodeteriorative impacts on bridges over Zayand-e-Rood river (Iran: Role of mosses and their control measures. **Journal of Scientific and Industrial Research** 67: 377-380
25. R Tyagi, P Gupta & P.L. Uniyal. 2007. The effect of lead and zinc concentration on growth of four species of bryophytes. **International Journal of Biological and Chemical Sciences** 1(2):128-135.
26. P.L. Uniyal. 2004. Studies on the West Himalayan Polytrichaceae (Musci). **Cytologia.** 69:221-223.
27. A. Gupta, S.S. Thakur, P.L. Uniyal & R Gupta. 2001. A survey of bryophytes for presence of cholinesterase activity. **American Journal of Botany.** 88:2133-2135.
28. P.L. Uniyal, 2001. Some aspects of biology of *Hydrobryopsis sessilis* (Podostemaceae). **Beitrage. Biol. Pflanzen.** 72: 75-88.
29. P.L. Uniyal & H.Y. Mohan Ram, 2001. Morphological studies on *Willisia selaginoides* Warm.ex. Willisia (Podostemaceae). **Flora** 196:370-380.
30. P.L. Uniyal & S Shirzadian 2001. Cytotaxonomic studies in West Himalayan Bryaceae (Musci). **Rostaniha** 2: 25-36.
31. P.L. Uniyal, 2000. Cytological Observations in some Members of Pottiaceae (Musci) **Phytomorphology.** 50 : 95-102.
32. P.L. Uniyal, 1999. Studies on *Indotristicha tirunelveliana* Sharma, Karthik & Shetty (Podostemaceae) An endemic, rare and enigmatic taxon. **Flora** 194: 169-178.
33. P.L. Uniyal, 1997. Cytomorphological studies on the Brachytheciaceae (Musci). **Phytomorphology.** 47: 413-420.
34. P.L. Uniyal, 1997. Cytological studies on *Plagiomnium* T. Kop. (Musci) from Western Himalaya. **Acta Botanica Indica.** 25: 37-42.
35. P.L. Uniyal & H.Y Mohan Ram.1996. In vitro seeds germination and developmental morphology of *Dalzillia zeylanica* (Gardn.) Wight. (Podostemaceae, Tristichoideae. **Aquatic Botany.** 54:59-71
36. P.L. Uniyal, 1996. Cytotaxonomic studies on *Mnium* Hedw. From Garhwal Himalaya. **Journal of Indian Botanical Society** 75: 233-235.
37. P.L. Uniyal, 1996. Chromosome numbers in *Entosthodon* Schwaegr and *Physcomitrium* (Brid.) Fuernr. From the Garhwal Himalaya, **Lindbergia**, 21: 85-89.
38. P.L. Uniyal & H.Y. Mohan Ram, 1994. Karyomorphological studies in some members of Podostemaceae. **Aquatic Botany**, 47: 85-90.
39. S.S. Kumar, P.L. Uniyal & P. Kaur, 1989. Heavy metal deposition in some mosses of Garhwal Himalaya.

Yushania, 6: 9-14.

40. S.S. Kumar, **P.L. Uniyal** & C Sharma. **1988**. Some new reports of chromosome numbers in western Himalayan mosses. SOCGI plant chromosome number Reports VI. **J Cytol. Genet.** **23**: 40-41.

41. S.S. Kumar, **P.L. Uniyal** & A. Goyal, **1988**. Additions to the moss flora of Garhwal Himalaya II. **Yushania.** **5**: 19-23.

42. S.S. Kumar, **P.L. Uniyal**, **1988**. Some new reports of chromosome numbers in western Himalayan mosses. SOCGI Plant Chromosome Number Reports VII. **J. Cytol. Genet.**, **23**: 219-220.

43. S.S. Kumar, T. Koponen & **P.L. Uniyal**, **1987**. Some new reports of chromosome numbers in West Himalayan mosses. In: Love, IOPB Chromosome Number Reports XCVII. **Taxon** **36**: 767.

44. S.S. Kumar, S. Anand & **P.L. Uniyal**, **1987**. A report on the moss flora of Garhwal Himalaya- I. **Res. Bull. Panjab Univ.** **38**: 39-41.

Articles

1. P Sharma and **P L Uniyal**.**2013**. *Cedrus deodara* (Roxb.) G. Don. a possible indicator of climate change and Himalayan informatics. In; **Climate Change & Himalayan Ecosystem - Indicator, Bio & Water Resources** (Editors: J Sundersan, P Gupta, KM Santosh & Ram Booj. Scientific Publishers (India). Jodhpur. Pp 164-170.

2. P Sharma and **P L Uniyal**.**2011**. Cytotaxonomy and its Evolutionary Significance in the Evolution of Orchidaceae and Cyperaceae. In: Plant Taxonomy: Past Present and Future (ed R Gupta). The Energy and Resources Institute, New Delhi

3. DP Semwal, P Sharma, H Govindaparyari and **PL Uniyal** **2011**. Quantitative Assessment and Ethnobotanical Uses of Plants of Koti– Kanasar Forest Range (Jaunsar), Uttarakhand. Pp 103-118. In: Biodiversity: An Overview (ed Mukesh Kumar, RK Gupta and GS Paliwal), IK Publishers, New Delhi

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Conference Presentations

International Symposia/Conferences

1. P Sharma, **P L Uniyal** & Jolanta Slowik. **2013** Rakhai (*Taxus*), Pangwalas and low cost technology: a route for sustainable development (Oral Presentation) pp. In: International German Alumni Summer School India: Millennium Goals and Traditional Knowledge for Sustainable Development and Biodiversity Conservation in India. Jawaharlal Nehru University, New Delhi. 17-25 April.
2. P Sharma & **PL Uniyal. 2012**. Community involvement and conservation and conservation of *Taxus baccata* L. in Pangi Valley, Himachal Pradesh. 7th International Symposium of the International Society for development of Natural Product, Ethnopharmacology and Phytochemical Society, Amity University, Noida, November 15-17.
3. H Govindaparyari, P Kumari & **PL Uniyal. 2012**. The adaptive importance of rhizoids in mosses. Pp 72. (Poster). In: International Conference and Workshop on Monitoring of Metals and Gasses in Plants with special reference to Bryophytes Physiology and Climate Change. Bareilly. 17-18 December.

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11. M Goel, P Dureja, A Rani, **P L Uniyal** and H Laatsch.**2010**. Lichens: A novel source of antimicrobial agents .pp. Oral Presentaion in the International Conference on Antimicrobial Research. Valladolid, Spain. 3-5 November.
12. **P Sharma and P. L. Uniyal**. **2010**. Conservation Governance and Policy Monitoring of Ecologically and Economically Significant Gymnosperms in North Sikkim Himalaya. Public Communication of Science & Technology (PCST) *Main-conference - New Delhi December 6-10. Pp. 97.
13. D Dandotiya, H Govindapyari and **PL Uniyal**. **2010**. An overview of bryophyte diversity in Western Ghats. Poster Presentation in Fourth International Conference on Plants and Environmental Pollution (ICPEP-4). NBRI, Lucknow. 8-11 December 2010.
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29. **Sunita Sharma, Sanavar, H Govindapryari and P L Uniyal 2006**. Symbiotic relationship of mosses to cyanobacteria. Paper presented In Proceedings of International Conference on Applied Phycology “Algae in Biotechnology and Environment”. New Delhi, 14-15 February.
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NATIONAL CONFERENCES/SEMINARS/SYMPOSIUMS



- 1 Bhatia V, Bhattacharya R and **Uniyal PL. 2012**. Silencing vital genes of *Muzus persicae* by plant – mediated RNAi imparts protection against sap sucking aphids. Poster Presentation In National conference on Biotechnology. University Agra. April 2012.
- 2 **P L Uniyal. 2012**. Perspectives of research on lower plant groups. pp 4-5. Invited Lecture, In: National seminar on Plant Science Research In Human welfare. Bidhannagar College and Botanical Survey of India, Kolkata. 1-2 January.
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- 5 Govindaparyari H, Y M Bahuguna and P L Uniyal.2009. Traditional Uses of Bryophytes. Paper presented in the National Conference on Medicinal; Plants of Himalaya- Traditional uses and Conservation Issues. 19-21 February, HNB Garhwal Univ, Srinagar (Garhwal).
- 6 DP Semwal, Y M Bahuguna and **P L Uniyal. 2007**. Plant Diversity and Distribution around Deoriya Tal, Western Himalaya, India. Pp 123. Paper presented In National Conference on Wetlands, Science and Society- An Assessment of their Integration. Delhi 11-13, December 2007.
- 7 S Sharma, H Govindaparyari and **PL Uniyal, 2007**. Wetland habitats for some less known endemic and endangered plants. Pp 125. Paper presented In National Conference on Wetlands, Science and Society- An Assessment of their Integration. Delhi 11-13, December 2007.
- 8 Abha Meena, Rekha Tyagi, **P L Uniyal** and Promila Gupta **2006**. Studies on the effect of heavy metals on *Timmiella barbuloides*. pp 163 Paper presented In Biodiversity Related Conventions : Role of Indian Scientific Community, 8-10 March, Delhi.
- 9 **P.L. Uniyal. 2003**. Response of moss growth and uptake of heavy metals by mosses in an industrial site. Paper presented In National Conference on Bryology. Motihari. 2-3 March.
- 10 **P.L. Uniyal. 2001**. Bryophytes in the environmental conservation programme.pp 26. Paper presented In National Symposium 'Biotechnological Innovations in Conservation and Analysis of Plant Diversity, Feb 7-9, New Delhi.
- 11 **P.L. Uniyal, 1999**. Studies on *Indotristicha tirunelveliana* (Podostemaceae): An endemic, rare and enigmatic taxon.pp 3. Paper presented In: National Seminar "Plant Genetic Diversity: Evaluation and Conservation. Panjab University, Chandigarh, Feb. 22-23.
- 12 **P.L. Uniyal** and S.S. Kumar **1999**. Cyto-ecology of some members of Funariaceae. Paper presented In: National Seminar "Plant Genetic Diversity: Evaluation and Conservation. Panjab University, Chandigarh, Feb.22-23.
- 13 **P.L. Uniyal, 1996**. Morphological on *Willisia selaginoides* Warm.ex Willis. Pp29. Paper presented In: National Seminar "Conservation of Endangered Species and Ecosystems." Banaras Hindu University, Varanasi, 5-7 December.
- 14 **P.L. Uniyal, 1995**. A cytotaxonomic study on the genus *Phillinotis* Brid. From Garhwal, Himalaya.pp 21. Paper presented In: All India Conference on Bryology, 14-16 December, Lucknow.
- 15 **P.L. Uniyal, 1995**. Morphological studies in Podostemaceae.pp 18. Paper presented In: Contemporary Studies on Plant Structure and Morphogenesis. Sardar Patel University, Vallabh

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16 **P.L. Uniyal** & S.S. Kumar, **1989**. Cytotaxonomic observations in some west Himalayan species of *Physcomitrium* (Brid.) Fuernr. Paper presented In: Frontiers in Botanical Research. Panjab University, Chandigarh.

17 **P.L. Uniyal**, R. Malik & S.S. Kumar, **1989**. Additions to the moss flora of Kashmir Himalaya. Paper presented In: Frontiers in Botanical Research. Panjab University, Chandigarh.

Professional Societies Membership

- 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 KK Nanda Society of Plant Physiologists, Chandigarh

Projects (Major Grants/Collaboration)

Name of the Project: Studies of Reproductive Biology of some Economically important Ferns of Himalaya
Funding Agency: Department of Science & Technology
Period: 2012-2015

Name of the Project : Traditional Knowlwdge and Conservation of *Taxus baccata* L in Himanchal Pradesh
Funding of Agency: DST
Period: 2011-2013

Name of the Project: Preventing Extinction and Improving Conservation Status of Threatened Plants through Application of Biotechnological Tools
Funding Agency : Department of Biotechnology.
Period: 2012-2017

Other Details

Signature of Faculty Member

Signature and Stamp of Head of
the department

- ⌚ 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.