

ACADEMIC PROFILE OF FACULTY MEMBER

1. Name: Chitra Pande

2. Designation: Professor

3. Qualification: M.Sc. /Ph.D.

4. Area of Specialization/Research field: Organic Chemistry

5. Awards/Recognitions: Gold Medal for securing 1st Position in Science Faculty in B. Sc. from Kumaun University from Higher Education Directorate U.P., 1981. Gold Medal for securing 1st position in Science Faculty, Kumaun University, 1981. Certificate of merit for securing 1st Position in M. Sc. Chemistry Kumaun University, Nainital, 1984.

6. Number of Research projects:

i) Completed

S/ N	Title of the project	Funding Agency	Amount(Rs.)	Year (From-To)
1.	“Study of the Terpenoid Composition and Chemosystematics of some Himalayan Artemisia species”	U.G.C.	25,000.00	1999-2000
2.	“Studies of heavy metal contamination on agricultural soils and dominant crops as pollution indicator in Tarai region of Kumaun Himalaya”	UCOST, Dehradun	7,55,900.00	2009-2011
3.	“Remedial Strategies for meal contaminated soils using <i>Mentha</i> and <i>Ocimum</i> species”	USERC, Dehradun	11,00,000.00	2010-2012
4.	“Phytoremediation strategies of	MOEF, New Delhi	27,00,000	2012-2014

	heavy metal contaminated soils using <i>Foeniculum</i> and <i>Coriandrum</i> ”			
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ii) On-going

S/ N	Title of the project	Funding Agency	Amount	Date of Commencement	Expected date of completion
1.	“Sustainable approach for cleanup of metal polluted soils using basil species with respect to their genetic diversity”	GBPNIHE & SD, Kosi, Katarmal, Almora, Uttarakhand	Rs. 9,95,500/-.	2017	2020

7. Number of Ph. Ds awarded: 9

8. Number of candidates working for Ph.D. award: 4

9. Publications:

i) Books

S/N	Co-Author/s	Title	Publisher	Year of publication
1.	Chitra Pande B. L. Shah, Divya U. Joshi and Ritesh Shah eds	Phytoremedial strategies on soil contaminated with lead and copper by using <i>Ocimum</i> species, Environment development and society	Durga Ma Prakashan, Haldwani, 174-180	2011
2.	Shaini Singh, Geeta Tewari, Chitra Pande and Charu Singh	Chemotaxonomy of Wild <i>Origanum vulgare</i> L. from Kumaun Himalayas, <i>In: Impact of global climate change on earth ecosystems</i> , 103-114 (2013).	Biotech Books, New Delhi, DK-228374 (HBD)	2013

3.	Charu Singh, Chitra Pande, Geeta Tewari and Shalini Singh	Terpenoid composition of leaves, seeds and roots of <i>Cyclospermum leptophyllum</i> : A comparative study, <i>In: Impact of global climate change on earth ecosystems</i> , 115-119 (2013).	Biotech Books, New Delhi, DK-228374 (HBD)	2013
4.	Deepshekha Punetha, Chitra Pande, Geeta Tewari, Sunita Bhatt, Kiran Tewari, Jitendra Diwakar and Sonal Tripathi.	Effect of metal contaminated soil on <i>Foeniculum vulgare</i> . Recent Trends in Environmental Science and Carbon Management 64-73 (2015).	Academic Excellence, New Delhi. ISBN No. 978-93-83246-20-5	2015
5.	Deepshekha Punetha, Geeta Tewari, Chitra Pande, Lata Rana and Sonal Tripathi.	Effect of manure on the metal efficiency of <i>Coriandrum sativum</i> . <i>In: Zero Waste: Management Practices for Environmental Sustainability</i>	17, 1 st Edition, CRC Press, Boca Raton, eBook, pp.277-300. ISBN: 9780429059247; ISBN: 978-0-367-18039-3	2019
6.	Geeta Tewari, Ashish Tewari, Lalit M. Tewari, Chitra Pande	Natural Products and Their Utilization Pattern	Nova Science Publisher, eBook, ISBN: 978-1-53618-140-1	2020

ii) Research Articles published.

1. C. S. Mathela, **Chitra Pande**, D. K. Mathela, A.B. Melkani and P. Joshi, Terpenoid composition of *Cymbopogon distans* variety *Munsiyarensis*, ***Herba Hungarica***, **27**(2-3), 117-121, 1988.
2. C. S. Mathela, Hema Lohani, **Chitra Pande**, and D. K. Mathela, Chemosystematics of terpenoids in *Cymbopogon martini*. ***Biochemical Systematics and Ecology***, **16**, 167-169, 1988. **IF: 0.847**

3. C.S. Mathela, A.B. Melkani, Alka Pant and **Chitra Pande**, Chemical variations in *Cymbopogon distans* and their chemosystematic implications, *Biochemical Systematics and Ecology*, **16**(2), 161-165, 1988. **IF: 0.847**
4. C. S. Mathela, **Chitra Pande**, A. K. Pant and A.K. Singh, *Phenyl propenoid constituents of Cymbopogon microstachys*, *Journal of the Indian Chemical Society*, **67**, 526-527, 1990.
5. **Chitra Pande**, A.B. Melkani and C.S. Mathela *Cymbopogon distans*, Report on a new chemotype, *Indian Perfumer*, **41**(1), 35-36, 1997..
6. **Chitra Pande**, Rajesh K. Joshi and Subhash S. Sammal, Chemical composition of the essential oil of *Anaphalis contorta* Hook f. *Journal of Essential Oil Research*, **20**, 444-445, 2008. **IF: 1.007**
7. **Chitra Pande** and C. S. Mathela, Essential oil composition of *Origanum vulgare* L. ssp. *vulgare* from the Kumaon Himalayas. *Journal of Essential Oil Research*, **12**(4), 441-442, 2000. **IF: 1.007**
8. **Chitra Pande** and L.N. Goswami, *Composition of essential oil from seeds of Cuminum cyminum* L. *Indian Perfumer*, **48**, 265-266, 2000.
9. **Chitra Pande** and C. S. Mathela, *Chemical composition of the leaf oil of Juniperus communis* L. from the Kumaon region, *Journal of Essential Oil Bearing Plants*, **3**, 135-137, 2001. **IF: 0.681**
10. **Chitra Pande**, S. S. Sammal and Chandan Singh, *Essential oil composition of seeds of Coriandrum sativum* L. *Indian Perfumer*, **46** (2), 115-117, 2002.
11. **Chitra Pande**, C. S. Chanotiya and R. Padalia, Essential oil of *Murraya koenigii* L. Spreng. from the north western Himalayan region. *Indian Perfumer*, **48**, 407-410, 2004.
12. **Chitra Pande** and C. S. Chanotiya, Constituents of the leaf oil of *Curcuma longa* L. from Uttaranchal, *Journal of Essential Oil Research*, **18**, 166-167, 2006. **IF: 1.007**
13. **Chitra Pande**, Renu Bhatt and R.C. Padalia, Composition of leaf oil of *Cryptomeria japonica* D.Don, *Indian Perfumer*, **51**, 43-45, 2007.
14. Rajesh K. Joshi and **Chitra Pande**, Essential Oil Composition of the Aerial Parts of *Bupleurum candollei*, *Natural Product Communications*, **3**(11), 1919-1920, 2008. **IF: 0.809**
15. Rajesh K. Joshi and **Chitra Pande**, Chemical composition of the essential oil of the flowering aerial parts of *Craniotome furcata*, *Natural Product Communications*, **3**(6), 923-924, 2008. **IF: 0.809**
16. Renu Bhatt, R.C. Padalia and **Chitra Pande**, Chemical Composition of the Essential Oil of *Colquhounia coccinea* Wall. *Journal of Essential Oil Research*, **21**, 74-75, 2009. **IF: 1.007**
17. Rajesh K. Joshi and **Chitra Pande**, Phytoconstituents of the essential oil of *Craniotome furcata* (Link.) O. Kuntze, *Journal of Essential Oil Research*, **21** (3), 270-271, 2009. **IF: 1.007**
18. Rajesh K. Joshi, **Chitra Pande**, Mohammad H. K. Mujawar and Sanjeva D. Kholkute, Chemical composition and antimicrobial activity of the essential oil of *Anaphalis nubigena* var. *monocephala*. *Natural Product Communications*, **4**, 993-996, 2009. **IF: 0.809**
19. Rajesh K. Joshi and **Chitra Pande**, Chemical composition of the essential oil of *Phlomis bracteosa* Royle ex Benth, *Journal of Essential Oil Research*, **22** (4), 297-299, 2010. **IF: 1.007**
20. Anita Singh, **C. Pande**, P. Gahtori, S.N. Pandeya and J.P. Stables. Design and synthesis of some novel 4-(4-substituted aryl) semicarbazones as anticonvulsant agents. *Indian Journal of Pharmaceutical Sciences*, **72**, 12-16, 2010. **IF: 0.762**
21. **Chitra Pande**, Geeta Tewari, Charu Singh, Shalini Singh and R.C. Padalia. Chemical Composition of the Essential Oil of *Feronia elephantum* Correa. *Natural Product Research*, **24**, 1807-1810. **IF: 1.828**

22. G. Tewari, **C. Pande**, G. Kharkwal, S. Singh and C. Singh. Phytochemical study of the essential oil from the aerial parts of *Coleus aromaticus* Benth. *Natural Product Research*, **26**(2), 182-185, 2012. **IF: 1.828**
23. **C. Pande**, G. Tewari, C. Singh and S. Singh. Essential oil composition of aerial parts of *Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & P. Wilson. *Natural Product Research*. **25**, 592-595, 2011. **IF: 1.828**
25. **C. Pande**, G. Tewari, C. Singh and S. Singh. Chemical composition of the essential oil from the aerial parts of *Bupleurum hamiltonii* Balak from Uttarakhand, India. *Natural Product Research*, **26**(15), 1442-1445, 2012. **IF: 1.828**
26. **C. Pande**, G. Tewari, S. Singh and C. Singh. Chemical Markers in *Origanum vulgare* L. from Kumaun Himalayas: A Chemosystematic Study. *Natural Product Research*, **26**(2), 140-145, 2012. **IF: 1.828**
27. S. Singh, G. Tewari, **C. Pande** and C. Singh. Variation in essential oil composition of *Ocimum americanum* L. from Kumaun north-western Himalayan region. *Journal of Essential Oil Research*, **25**(4), 278-290, 2013. **IF: 1.007**
28. Geeta Tewari and **Chitra Pande**. Health risk assessment of heavy metals in seasonal vegetables from north-west Himalaya. *African Journal of Agricultural Research*. **8**(23), 3019-3024, 2013. **IF: 0.263**
29. Shalini Singh, Charu Singh, **Chitra Pande**, Geeta Tewari, Veena Pande and Pratibha Sharma. Exploration of antimicrobial potential of essential oils of *Cinnamomum glanduliferum*, *Feronia elephantum*, *Bupleurum hamiltonii* and *Cyclospermum leptophyllum* against foodborne pathogens. *Pharmaceutical Biology*. **51**(12), 1607-1610, 2013. **IF: 1.241**
30. S. Singh, G. Tewari, **C. Pande** and C. Singh. Chemical variation in volatiles of *Craniotome furcata*: Correlation with soil properties. *Records of Natural Products*. **7**(4), 332-345, 2013. **IF: 1.311**
31. Gitu Kunwar, Geeta Tewari, **Chitra Pande**, Charu Singh and Girish C. Kharkwal Family Lamiaceae: phytoremediation aspects. *Journal of Indian Chemical Society*. **92**(1), 107-112, 2014.
32. G. C. Kharkwal, **C. Pande**, G. Tewari, A. Panwar and V. Pande Composition and antimicrobial activity of the essential oil of *Heracleum Lanatum* Michx. from Uttarakhand Himalaya. *International Journal of Scientific & Technology Research*. **3**(12), 60-64, 2014.
33. Deepshikha Punetha, **Chitra Pande**, Geeta Tewari and Kiran Tewari. Qualitative variation in *Coriandrum sativum* L. seed oil with manure application. *Indian Perfumer*, **58**(2), 27-30, 2014.
34. C. Singh, S. Singh, **C. Pande**, G. Tewari and G. Kharkwal. Chemical composition of the leaves essential oil from *Cinnamomum glanduliferum* (Wall) Meissn from Uttarakhand, India. *Journal of Essential Oil Bearing Plants*. **17**(5), 927-930, 2014. **IF: 0.681**
35. K. Tewari, **C. Pande**, G. Tewari, G. C. Kharkwal and D. Punetha. Volatile constituents of *Geranium wallichianum* D. Don ex Sweet. from north-western Himalayan region. *Journal of the Indian Chemical Society*. **92**, 123-125, 2015.
36. G. C. Kharkwal, **C. Pande**, G. Tewari, A. Panwar and V. Pande. Volatile terpenoid composition and antimicrobial activity of flowers of *Melia azedarach* Linn. from north west Himalayas, India. *Journal of the Indian Chemical Society*. **92**, 141-145, 2015.
37. Deepshikha Punetha, Geeta Tewari, **Chitra Pande**, Girish C. Kharkwal, Kiran Tewari. Investigation on heavy metal content in common grown vegetables from polluted sites of Moradabad District, India. *Journal of the Indian Chemical Society*. **92**, 97-103, 2015.
38. K. Tewari, G. Tewari, **C. Pande** and G. Kunwar. Volatile constituents of *Artemisia parviflora* Buch.-Ham. ex Roxb. from Kumaun Himalayan region, India. *Journal of Essential Oil Bearing Plants*, **92**, 123-125, 2015. **IF: 0.681**
39. Gitu Kunwar, **C. Pande**, G. Tewari, C. Singh, and G. Kharkwal. Effect of heavy metals on terpenoid composition of *Ocimum basilicum* L. and *Mentha*

- spicata* L. *Journal of Essential Oil Bearing Plants*, **18**(4), 818-825, 2015. **IF: 0.681**
40. Kiran Tiwari, **Chitra Pande**, Geeta Tewari, Gitu Kunwar, Deepshikha Punetha. Variation in the chemical profile of *Agrimonia aitchisonii* Schönb.-Tem. aerial part from Himalayan region. *Open Access Journal of Medicinal and Aromatic Plants*, **6**(1), 15-20, 2015.
 41. Geeta Tewari, **Chitra Pande**, Shalini Singh and Charu Singh. Quantification of metal nutrients in *Origanum vulgare* L. collected from North Western Himalayas. *Journal of Chemistry and Applied Biochemistry*, **2**(1), 109-114, 2015.
 42. Mamta Bisht, **Chitra Pande**, Geeta Tewari and Alkesh Chauhan. Essential oil composition of *Mentha arvensis* cultivated in the Tarai region of Uttarakhand. *Indian Perfumer*, **59**(4), 17-20, 2015.
 43. Sunita Bhatt, Geeta Tewari, Deepshikha Punetha, Jitendra Diwakar and **Chitra Pande**. Chemical profile of *Ocimum americanum* L. from North-Western Himalayan region: A comparative study. *Indian Perfumer*, **60**(1), 23-27, 2016.
 44. Geeta Tewari, Deepti Khatri, Lata Rana, Poonam Yadav, **Chitra Pande**, Sunita Bhatt, Vinod Kumar, Neeta Joshi and Prasoon K. Joshi. Assessment of physicochemical properties of soils from different land use systems in Uttarakhand, India. *Journal of Chemical Engineering and Chemistry Research*, **3**(10), 1114-1118, 2016.
 45. Geeta Tewari, Nidhi Sharma, Sunita Sharma, **Chitra Pande**, Girish C. Kharkwal, Mamta Bisht, Akanksha Rani and Deepshikha Punetha. Effect of sludge addition on some soil properties under oxic and anoxic environment. *Journal of Chemical Engineering and Chemistry Research*, **3**(10), 980-984, 2016.
 46. G. C. Kharkwal, C. Pande, **G. Tewari**, A. Panwar and V. Pande. Terpenoid composition and antimicrobial activity of essential oil from *Torilis japonica* (Houtt.) DC. *Journal of the Indian Chemical Society*, **94**, 191-194, 2017.
 47. A. Rani, M. Bisht, C. Pande, **G. Tewari**, S. Bhatt, M. Matiyani. Effect of drying on the volatiles of leaves of *Murraya koenigii* (L.) Spreng. *Journal of Essential Oil Bearing Plants*, **20**(2), 552-558, 2017. **IF: 0.681**
 48. Gitu Kunwar, **Chitra Pande** and Geeta Tewari. Essential oil composition of the aerial parts of *Mentha spicata* L. *World Journal of Pharmaceutical Research*, **6**(6), 853-859, 2017.
 49. Akanksha Rani, **Chitra Pande**, Geeta Tewari and Kiran Patni. A review on aroma profile of *Cinnamomum* species in north and north east India. *World Journal of Pharmaceutical Research*, **6**(11), 200-221, 2017.
 50. Deepshikha Punetha, Geeta Tewari and **Chitra Pande**. Compositional variability in inflorescence essential oil of *Coriandrum sativum* from North India. *Journal of Essential Oil Research*, **30**(2), 113-119, 2018. **IF: 1.007**
 51. Gitu Kunwar, **Chitra Pande**, Geeta Tewari, Sunita Bhatt and Sonal Tripathi. Phytochemical potential of a new chemotype of *Ocimum kilimandscharicum* Guerke from Kumaun Himalaya. *Journal of Essential Oil Bearing Plants*, **21**(3), 623-639, 2018. **IF: 0.681**
 52. Sunita Bhatt, Geeta Tewari, **Chitra Pande** and Lata Rana. Impact of drying methods on essential oil composition of *Ocimum americanum* L. from Kumaun Himalayas. *Journal of Essential Oil Bearing Plants*, **21**(5), 1385-1396, 2018. **IF: 0.681**
 53. S. Bhatt, G. Tewari, **C. Pande**, M. Bisht, O. Prakash and L. Rana. Evaluation of antioxidant potential and quality of volatile constituents of fresh and sun dried *Ocimum gratissimum*. *Journal of the Indian Chemical Society*, **96**(2), 297-304 (2019). ISSN No.: 00194522; Journal no. (UGC): 11061. **IF: 0.204**
 54. Sunita Bhatt, Geeta Tewari, **Chitra Pande**, Om Prakash, Sonal Tripathi. Aroma profile and antioxidant potential of *Origanum vulgare* L.: impact of drying. *Journal of Essential Oil Bearing Plants*, **22**(1): 214-230 (2019). **IF: 0.681**
 55. M. Bisht, L. Rana, G. Tewari, **C. Pande** and S. Bhatt. Effect of natural drying methods on flavour profile of camphor rich *Ocimum americanum* L. from North India. *Asian Journal of Chemistry*, **31**(6), 1321-1326 (2019). ISSN No.: 0970 7077; Journal no (UGC): 8774

56. Mamta Bisht, **Chitra Pande**, Geeta Tewari, Sunita Bhatt, Sonal Triphati. Effect of zinc on the growth and essential oil composition of *Ocimum gratissimum* L. *Journal of Essential Oil Bearing Plants*. 22(2), 441-454 (2019).
57. Deepshikha Punetha, Geeta Tewari, **Chitra Pande** and Sunita Bhatt. Effect of Climatic conditions on the volatile compounds of the aerial parts of *Foeniculum vulgare* *Journal of Essential Oil Bearing Plants*. 22(4), 1093-1103 (2019). **IF: 0.688**
58. Sunita Bhatt, **Geeta Tewari**, Chitra Pande, Deepshikha Punetha, Om Prakash. Antioxidative potential and compositional variation among *Origanum vulgare* L. collected from different districts of Kumaun Himalayas, Uttarakhand. *Journal of Essential Oil Research*. 32(2), 121-131. **IF: 1.233, NAAS Score: 7.01**

10. Conference/Seminar organized: NA

11. Academic/Administrative positions held

S/N	Chairman/Member/Secretary	Committee/Board	Year (From-To)
1.	Convener	Convener of Admission Committee (B.Sc. I, Maths group)	2010
2.	Member	Academic Council	2009 onwards
3.	Member	Organizing Committee, ETCBI 2011	03-05 November 2011
4.	Coordinator	Pre-Ph.D. Course work, Science Faculty since 2012	2012-2014
5.	Member	Departmental Equipment and Apparatus Committee, 2014	2014
6.	Convener	Departmental Annual Verification Committee, 2014.	2014
7.	Honorary Librarian	D. S. B. Campus, Kumaun University, Nainital,	July 2014 to June 2016
8.	Member	Organizing Committee, ICEFN-2016	2016

9.	Organizing Secretary	ICEFN&SEM-2019	2019
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16. Membership to professional Organization/Associations:

S/N	Name of the Association/Organizations	Status of the membership
1.	Fellow member of Essential Oil Association of India	Fellow member
2.	Life member of CHEA (Central Himalayan Environment Association), Nainital	Life member
3.	Life member of Indian Association of Pharmacology	Life member
4.	Life member, Chemistry Teacher Association.	Life member
5.	Full Individual Member, Organization for Women in Science for the Developing World (OWSDW), Italy	Full Individual Member

17. Any other Information:

Invited/special lectures delivered in University/Seminar/Symposia:

- ✓ Academic Staff College, Kumaun University, Nainital: 24
- ✓ Amity University, New Delhi
- ✓ International Conference GTER-2012,
- ✓ Chaired Technical Session at GTER-2012,
- ✓ Resource person at Theme for NTSC-2011.

Conferences/ Symposia:

1. **Chitra Pande** and C.S.Mathela, *Chemical Composition of the leaf oil of Juniperus communis L. from the Kumaun region.* Poster presentation at the 44th Annual Convention and Seminar of Essential Oil Association of India September 22-23, 2001, Agra.
2. **Chitra Pande**, *A New Himalayan Chemotype of Cymbopogon distans – Chemical composition and its commercial utility.* Presented at National Seminar on Drugs from Himalayan Herbs: Present Status and Future Strategies March 26-28, 1999, Nainital.

3. Renu Bhatt, Rajesh Joshi, S.S. Sammal and **Chitra Pande**, *Terpenoid composition of Ocimum americanum L. from Uttaranchal*. Poster Presentation at Workshop on Prospects of Essential Oil Industry in Uttaranchal and the role of GC-MS in analysis of Essential Oils 24th & 25th September, 2004, Nainital.
4. Anita Singh, **Chitra Pande**, Surendra N. Pandeya and James P. Stables, *Synthesis of aryl/alkyl semicarbazones as anticonvulsants – Role of hydrophobicity in drug action*. Presented at Proc. 92nd Ind. Sci. Cong. Part III, 2005.
5. Anita Singh, **Chitra Pande**, Surendra N. Pandeya and James P. Stables, *Synthesis and hypo-hyper glycemc properties of certain amidinothiocarbamide and amidine sulphides*. presented at Proc. 93rd Ind. Sc. Cong. 2006.
6. R.K. Joshi and **Chitra Pande**, *Phlomis bractiosa* Royle EX Benth: Essential oil composition of aerial parts collected from Pindari Glacier. Poster presented at Second Uttarakhand State Science Congress, Nov. 15-17 2007.
7. Charu Singh, **Chitra Pande**, Geeta Tewari and Shalini Singh. Phytochemical investigation of *Feronia elephantum* Correa. 4th Uttarakhand State Science Congress, G.B.P.U.A. & T., Pantnagar, Nov 10-12, p. 147, 2009.
8. Shalini Singh, **Chitra Pande**, Geeta Tewari and Charu Singh. Chemosystematics of *Origanum vulgare* L. 4th Uttarakhand State Science Congress, G.B.P.U.A. & T., Pantnagar, Nov 10-12, p. 161, 2009.
9. **Chitra Pande**, Geeta Tewari, Shalini Singh and Charu Singh. Chemodiversity in *Origanum vulgare* L. National seminar on Response of eco-; biological components to the phenomenon of global warming Nainital, 26-27 Nov , 2009.
10. Geeta Tewari, **Chitra Pande**, Shalini Singh and Charu Singh. Attended and presented a paper entitled “Assessment of heavy metal pollution of agricultural soils in tarai region in Fifth Uttarakhand State Science Congress, Doon University, Dehradun, Nov 10-12, 2010.
11. **Chitra Pande**, Geeta Tewari, Shalini Singh and Charu Singh. Screening of three *Ocimum* species for phytoremedial strategies. Fifth Uttarakhand State Science Congress, Doon University, Dehradun, Nov 10-12, 2010.
12. Charu Singh, **Chitra Pande**, Veena pande, Geeta Tiwari and Shalini Singh Antimicrobial activity and essential oil composition of aerial parts of *Cyclosperrum leptophyllum* (PERS.) Sprague ex Britton & P. Wilsons. Fifth Uttarakhand State Science Congress, Doon University, Dehradun, Nov 10-12, 2010.
13. Shalini Singh, **Chitra Pande**, Geeta Tiwari and Charu Singh. Volatile constituents of *Bupleurum hamiltonii* Balak from Uttarakhand. Fifth Uttarakhand State Science Congress, Doon University, Dehradun, Nov 10-12, 2010.
14. Green technology for removal of heavy metals in polluted soil by using *Ocimum basilicum*. C. Singh, **C. Pande**, G. Tewari and G. Kharkwal. UGC and UCOST sponsored National conference on Environmental conservation, sustainable natural resources management and strategies for regional development with reference to Uttarakhand held at DAV college, Dehradun, 01-02 May 2011.
15. Effect of heavy metal polluted soil on essential oil composition of *Ocimum basilicum*. G. Kharkwal, **C. Pande**, G. Tewari and C. Singh. UGC and UCOST sponsored National conference on Environmental conservation, sustainable natural resources management and strategies for regional development with reference to Uttarakhand held at DAV college, Dehradun, 01-02 May 2011.
16. Heavy metal content in agricultural soil and some vegetables of Tarai Region of Kumaun Himalaya. S. Singh, G. Tewari, **C. Pande** and G. Kharkwal. UGC and UCOST sponsored National conference on Environmental conservation, sustainable natural resources management and strategies for regional development with reference to Uttarakhand held at DAV College, Dehradun, 01-02 May 2011.
17. Attended National workshop on intellectual property right: patent awareness, July 6, 2011, Department of Biotechnology, Bhimtal.
18. Resource Person, Orientation courses, Academic Staff College, Nainital, Sponsored by UGC.
19. Resource Person, Refresher courses Academic Staff College, Nainital, Sponsored by UGC.
20. Resource Person, Brainstorming workshop, 6th National Teachers Science Congress (NTSC-2011), July 11-12, 2011.

21. Resource Person, AMITY University, Noida.
22. Attended National seminar on Emerging trends in Chemistry and Biology Interface at Nainital, 3-5th November 2011.
23. Presented paper in 6th USSTC 2011, S.S. J. Campus, Almora, 14-16th November 2011.
24. Gave Invited Lecture and Chaired Technical Session in International Conference on Green Technology at Haridwar, 13,14 and 15th February 2012.

- Popular articles in Uttara Magazine
- Junior Research Fellow (1985-1987): Department of Science and Technology Project, New Delhi
- Senior Research Fellow (CSIR) (1987-1989)
- **Total citations:** 267 June, 2020

Date: 20 June 2020