

Kumaun University, Nainital

Research Papers Published by Existing Faculty in the Last Two Years (2017 and 2018)International and National Journals-Year 2017 &2018 (Undifferentiated)2017

1. Chauhan, R., Awasthi, S., Tripathi, P., Mishra, S., Dwivedi, S., Niranjana, A., Mallick, S., Tripathi, P., Pande, V. and Tripathi, R.D. (2017). Selenite modulates the level of phenolics and nutrient element to alleviate the toxicity of arsenite in rice (*Oryza sativa* L.). *Ecotoxicology and Environmental Safety*, 138, 47-55.
2. Dandapat, A.,* Huang, Y., Gnayem, H., Sasson, Y.* (2017) Bismuth Oxyhalide Induced Growth of Pt Nanoparticles within Mesoporous Alumina Films and their Use as Reusable Catalyst for Chromium (VI) Reduction. *ChemistrySelect*, 2(2), 620-623.
3. Wang, J., Zhang, J., Huang, Y., Dandapat, A., Dai, L., Zhang, G., Lu, X., Zhang, J., Lai, W., Chen, T. (2017) Hollow Au-Ag Nanoparticles Labeled Immunochromatography Strip for Highly Sensitive Detection of Clenbuterol” *Scientific Report*, 7, 41419.
4. Anwar, M.S. Mona, U, Nazia, F. Verma, A. and Pande, V. (2017) Multi-trait activity of *Enterobacter* sp. Strain MH4 towards Fluorene Degradation as well as in Plant Growth Promotion. *SOJ Microbiol. Infec.Dise.* 5(5), 1-10.
5. Joshi, V., Akhtar, M.S., Sharma, P., Kushwaha, S.S., Baruah, D., Ciji A., Pande, V. and Sarma, D. (2017). Himalayan Fish Manifest Higher Potential of Quality Nutrients for Human Health. *Journal of Aquatic Food Product Technology*, 26(7), 843-855.
6. Chandra, D., Kohli, G., Prasad, K., Bisht, G., Punetha, V. D., Panwar, A. and Pandey, V. (2017) Antimicrobial activity of *Swertia Ciliata*, *Acorus Calamus* and *Viola Serpens* (Family Violaceae) from Pithoragarh, Uttarakhand Himalayas, India, *World Journal of Pharmaceutical Research*, 5(6), 913-924.
7. Pant, A., Pasupureddy, R., Pande, V., Seshadri, S., Dixit, R. and Pandey, K.C. (2017) Proteases in Mosquito Borne Diseases: New Avenues in Drug Development. *Current Topics in Medicinal Chemistry*, 17(19), 2221-2232.
8. Singh, U.S., Siwal, N., Pande, V. and Das, A. (2017). Can Mixed Parasite Infections Thwart Targeted Malaria Elimination Program in India? *BioMed Research International*, 1-11.
9. Joshi, V., Akhtar, M. S., Sharma, P., Baruah, D., Alexander, C., Das, P. , Pande, V. and Sarma, D. (2017). Protein and Amino Acid Composition of Indian Himalayan Snow Trout and Their Dietary Significance. *The Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences*, 1-6.
10. Gupta, S.K., Sharma, M., Majumder, B., Maurya, V.K., Lohani, M., Deeba, F. and Pande, V. (2017). Impact of Ethylene Diurea (EDU) on growth, yield and proteome of two winter wheat varieties grown under high ambient ozone. *Chemosphere*, 196, 161-173.
11. Prasad, K.M., Raghavendra, K., Verma, V., Velamuri, P.S. and Pande, V. (2017). Esterases are responsible for malathion resistance in *Anopheles stephensi*: A proof using

- biochemical and insecticide inhibition studies. *Journal of Vector Borne Diseases*, 54(3), 226-232.
12. Singh, P., Suyal, D.C., Kumar, N., Sharma, M.D., Rautela I., Patel, A., Sharma, N. and Pande, V. (2017). Isolation and molecular characterization of plant growth promoting rhizobacteria from the high altitude himalaya region of Uttarakhand. *Journal of Plant Development Sciences*, 9 (3).
 13. Singh, P., Joshi, H.C., Kumar, N., Sharma, M.D., Patel, A., Sharma, N. and Pande, V. (2017). Evaluation of Plant Growth Promoting Rhizobacteria and Mycorrhiza Fungi for Growth and Nutrient uptake in Pearl millet (*Pennisetum glaucum*). *International Journal of Current Microbiology and Applied Sciences*, 6 (6), 2648-2655.
 14. Singh, V., Pande, V. and Mohanty, C.S. (2017). De novo sequencing and comparative analysis of leaf transcriptomes of diverse condensed tannin-containing lines of underutilized *Psophocarpus tetragonolobus* (L.). *Scientific Reports*, 7, 44733.
 15. Dhyani, A., Jain, R., Pandey A., Sharma, A., Dhakar, K. and Pande, V. (2017). Diauxic growth pattern in thermophilic *Bacillus* spp. with respect to amylase production and ecological resilience. *Journal of Current Microbiology* (Accepted)
 16. Kumar, V., Mathela, C.S., Tewari, G., Panwar, A. and Pande, V. (2017). *In vitro* antimicrobial activity of essential oils and their acetylenic constituents. *Indian Journal of Natural Products and Resources*, 8(1), 63-68.
 17. Belwal, T., Giri, L., Bhatt, I.D., Rawal, R.S. and Pande, V. 2017. An improved method for extraction of nutraceutically important polyphenolics from *Berberis jaeschkeana* C.K. Schneid. fruits. *Food Chemistry*, 230, 657-666.
 18. Kamalesh, S.M., Lok Man, S.P., Shirish, A. R., Pande, V. and Tikam, S. R. (2017). Molecular analyses of genetic variation and phylogenetic relationship in Indian soap nut (*Sapindus* L.) and closely related taxa of the family Sapindaceae. *Meta Gene*, 13, 50-56.
 19. Kharkwal, G. C., Pande, C., Tewari, G., Panwar, A. and Pande, V. (2017). Terpenoid composition and antimicrobial activity of essential oil from *Torilis japonica* (Houtt.) DC. *Journal of the Indian Chemical Society*. 94, 191-194.
 20. Tewari, L. M., Upreti, B. M., Tewari, G., Singh, M. K. and Nailwal, T. K. (2017) Comparative *in vitro* Antioxidant Activity of Extracts of aerial parts of *Ginkgo Biloba* L. from Kumaun Himalaya. *World Journal of pharmaceutical research*. 6(13): 654-666.
 21. Chauhan, H.K., Bisht, A.K., Bhatt, I.D., Bhatt, A., Gallacher, D., Santo, A. (2017) Population change of *Trillium govanianum* (Melanthiaceae) amid altered indigenous harvesting practices in the Indian Himalayas *Journal of Ethnopharmacology* 213: 302-310.
 22. Chauhan, H.K., Bisht, A.K., Bhatt, I.D. (2017). Impediments in the Tissue Culture of High Altitude Medicinal Plants, Volume 4 (2): 1-4.
 23. Padalia, K., Bargali, K. and Bargali, S.S.(2017). Present scenario of agriculture and its allied occupation in a typical hill village of Central Himalaya, India. *Indian Journal of Agricultural Sciences*, 87 (1), 132-141. NASS Rating:6.22
 24. Pantola, S., Vibhuti, Bargali, K. and Bargali, S.S.(2017). Screening of three leguminous crops for drought stress tolerance at germination and seedling growth stage. *Indian Journal of Agricultural Sciences*, 87(4), 467-472. NASS Rating:6.22

25. Baboo, B., Sagar, R., Bargali, S.S. and Verma, H.(2017). Tree species composition, regeneration and diversity within the protected area of Indian dry tropical forest. *Tropical Ecology*, 58(3), 409-423. NASS Rating:6.00
26. Pantola, S., Bargali, K. and Bargali, S.S. and Vibhuti.(2017). Effects of NaCl on Germination and Seedling Growth in *Macrotyloma uniflorum* and *Vigna mungo*. *Current Agricultural Research Journal*.5(2), 169-176. NASS Rating:4.36
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29. Behera, S.K., Sahu, N., Mishra, A.K., Bargali,S.S., Behra, M.D. and Tuli, R.(2017). Aboveground biomass and carbon stock assessment in Indian tropical deciduous forest and relationship with stand structural attributes. *Ecological Engineering*,99, 513-524.
30. Misra, S., Srivastava, A.K., Verma, S., Pandey, S., Bargali, S.S., Rana, T.S. and Nair, N.K.(2017). Phenetic and genetic diversity in Indian *Luffa* (Cucurbitaceae) inferred from morphometric, ISSR and DAMD markers. *Genetic Resources and Crop Evolution*, 64(5), 995-1010. DOI 10.1007/s10722-016-0420-1.
31. Lodhiyal, L.S., Lodhiyal, N., Lal, B. and Pandey, J. (2017). Leaf Decomposition and Nutrient Release of Poplar Plantations in moist plain area of Central Himalaya, Uttarakhand. *Indian Journal of Ecology*, 44(2): 330-336. NASS Rating: 4.96
32. Lodhiyal, N. Lodhiyal, L.S., and Adhikari, B. (2017). Forest floor biomass, litter input and nutrient pattern in Shisham forest plantations in Bhabar Region of Kumaun Himalaya, *Journal of Environment and Bio-Sciences*, 31(1): 17-22. NASS Rating: 4.43
33. Adhikari, B., Kapkoti, B., Lodhiyal, N. and Lodhiyal, L.S. (2017). Structure and Regeneration of Sal (*Shorea robusta* Gaertn f.) Forests in Shiwalik Region of Kumaun Himalaya, India, *Indian Journal of Forestry*, 40(1): 1-8. NASS Rating: 3.78
34. Tiwari, V., Meena, B., Nair,K.N., Upreti, D.K., Tamta, S. and Rana, T.S. (2017). Assessment of genetic diversity and population structure of *Bergenia stracheyi* (Saxifragaceae) in the western Himalaya (India). *Biochemical Systematics and Ecology*, 70 ,205-210. (IF: 0.931)
35. Singh, N., Pal, A. K., Meena, B., Roy, R. K., Tamta, S. and Rana, T. S. (2017a). Development of ISSR and RAPD-derived SCAR markers for identification of *Gladiolus* germplasm. *Journal of Horticultural Science and Biotechnology*. 1-6. (IF: 0.538)
36. Singh, N., Meena, B., Pal, A. K., Roy, R. K., Tewari, S. K., Tamta, S. and Rana, T. S. (2017A). Nucleotide diversity and phylogenetic relationships among

- Gladiolus cultivars and related taxa of family Iridaceae. *Journal of Genetics*, 96 (1), 135-145. (IF: 0.995)
37. Singh, N., Pal, A. K., Roy, R. K., Tewari, S.K., Tamta, S. and Rana, T. S. (2017b). Development of cpSSR markers for analysis of genetic diversity in *Gladiolus* cultivars. *Plant Gene*, 10,31-36. (IF: 0.966)
 38. Singh, N., Pal, A. K., Roy, R. K., Tamta, S. and Rana, T. S. (2017c). Characterization of *Gladiolus* Germplasm Using Morphological, Physiological, and Molecular Markers. *Biochemical Genetics*. (IF: 1.543)
 39. Pandey, A., Sekar, K.C., Tamta, S. and Rawal, R. S. (2017). Assessment of phytochemicals, antioxidant and antimutagenic activity in micropropagated plants of *Quercus serrata*, a high value tree species of Himalaya. *Plant Biosystems- An International Journal Dealing with all Aspects of Plant Biology*. (IF: 1.390)
 40. Sharma, R. and Tamta, S. (2017). Red rot resistant gene characterization using RGAP markers among sugarcane cultivars resistant and susceptible to the red rot disease. *3 Biotech*, 7 (5), 306 . (IF: 1.0361)
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 43. Chopra, N., Tewari, G., Tewari, L.M., Upreti, B. and Pandey, N. (2017). Allelopathic Effect of *Echinochloa colona* L. and *Cyperus iria* L. Weed Extracts on the Seed Germination and Seedling Growth of Rice and Soyabean. *Advances in Agriculture*.
 44. Pandey, N.C., Bhatt, D., Arya, D., Chopra, N., Upreti, B.M., Joshi, G.C and Tewari, L.M. (2017). Diversity of Ethno-medicinal Plants: A case study of Bageshwar district Uttarakhand. *Journal of Medicinal Plants Studies*. 5(2): ISSN (E): 2320-3862., 11-24.
 45. Upreti, B.M., Tewari, L.M., Tewari, A.(2017). Role of Plants Used in Religious and Cultural System by Local Inhabitants of Sacred Forests of district Pithoragarh, Kumaun Himalaya. *Biolife*. 5(1), 7-11.
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 47. Sharma, L., Samant, S.S., Kumar, A., Negi, D., Devi, K., Lal, M., Tewari, L.M.(2017). Diversity, distribution pattern and indigenous uses of the medicinal plants of Cold Desert Biosphere Reserve in Trans Himalaya. *The Journal of Ethnobiology and Traditional Medicine*, 128: 1320-1345.
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- gefitinib and simvastatin conjugate” *Journal of Pharmacy and Pharmacology*, 69, 1304–1317, 2017, (I.F. 2.3).
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 51. S. Basak, S.K. Ghosh, V.D. Punetha, A. N. Aphale, P.K. Patra, N.G. Sahoo, "An experimental modeling of trinomial bioengineering-crp, rDNA, and transporter engineering within single cell factory for maximizing two-phase bioreduction", *International Journal of Biological Macromolecules*, 95, 818-825, 2017, (I.F.= 3.9).
 52. Rajendra Prasad, Lalit S. Bisht, Deepshikha Joshi, Manoj K. Nailwal and Anand B. Melkani, Chemical Composition and Antibacterial Activity of the Essential Oil from Whole Aerial Parts of *Leucasmollissima* Wall. exBenth, *Journal of Essential Oil Bearing Plants* 20, 141-147, (2017). IF-0.8
 53. Deepshikha Joshi, Anand B. Melkani, Rajendra Prasad and Manoj K. Nailwal, Antibacterial activity and chemical composition of the steam volatiles from *Plectranthuscoesta* from two different habitats of uttarakhand *Indain Perfumer* 61,13-18 (2017)
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63. Neha Chopra, BrijUpreti, Naveen Pandey, LalitTewari and GeetaTewari. Allelopathic effect of *Echinochloacolona* L. and *Cyperusiria* L. weed extracts on the seed germination and seedling growth of rice and soyabean. *Advances in Agriculture*. Article ID 5748524, 1-5, 2017. ISSN No. 2356-654X.
64. P. S. Bungla, GeetaTewari, R. S. Rawal, I. D. Bhatt, L. M .Tewari, ArunJugran and B Mohan.Comparative in vitro antioxidant activity, morphological and phytochemical profiling of traditional crops from Kumaun Himalaya. *Journal of the Indian Chemical Society*. 94, 181-189, 2017. IF: 0.134.
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71. Lalit M. Tewari, GeetaTewari, Brij M. Upreti, Manoj K. Singh and TapanNailwal. Comparative in vivo antioxidant activity of extracts of aerial parts of *Ginkgo biloba*L. from Kumaun Himalaya. *World Journal of Pharmaceutical Research*. 6(13), 654-666, 2017.
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91. Bhagwateshwari Karki & Prof. B. P. Singhal, Participation of Women in Socio-economic Decision Making: A Comparison between Joint Family and Nuclear Families of District Udham Singh Nagar, Uttarakhand, International Journal of Research in Commerce, IT and Management, Vol. 07., Issue No. 05, May, 2017, ISSN No. 2231-5750.
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