


BRIEF PROFILE

	Name	Dr NISHESH SHARMA
	Designation	Head & Assistant Professor
	Area	Biotechnology
	Email	nishesh21@gmail.com , hodbiotechnology@uttaranchaluniversity.ac.in
	Contact No.	7017971634
Professional Experience	<ul style="list-style-type: none"> • 10 Years teaching experience (excluding Ph.D. research tenure). 	
Education Qualification	<ul style="list-style-type: none"> • B.Sc. Biotechnology, Kurukshetra University • M.Sc. in Biotechnology, AMITY University, Noida • M.Phil Biotechnology, Vinayaka Mission University Salem • PG Diploma in Patent Laws, NALSAR University, Hyderabad • Ph.D. in Biotechnology, SHIATS, Allahabad • GATE qualified. 	
Area of Research	<ul style="list-style-type: none"> • Plant & Environment Biotechnology. • Algae Biotechnology 	
Current Research	Phytochemistry, agricultural biotechnology and molecular studies for development of value added products.	
Publications: <ul style="list-style-type: none"> • Articles in Journals (only Scopus/SCI) • Books edited/Chapter contributed/ Books authored 	<ul style="list-style-type: none"> • 15 Research Publication (Scopus / SCI) • Conference proceedings (3) • Book Authored – A Textbook of Biochemistry (A conceptual approach to biomolecules). Vigyan bodh Prakashan, Agra. ISBN: 978-93-85763-63-2. • Chapters contributed - 2 	
Conferences/Seminars/Workshops/ FDP/MDP attended	<ul style="list-style-type: none"> • 30 	
Award/Certificate/Prize received	<ul style="list-style-type: none"> • Young Scientist Award (2nd) – 2017 • Young Plant Scientist Award – 2018 • Young Biotechnologist Award- 2019 	
Any extra-curricular activities	<ul style="list-style-type: none"> • Associated with NGO's / Organization working for issues pertaining to environment conservation and other social issues. • Life member of Scientific Planet Society (SPS), Dehradun, India. • Life Member of Environment and Social Development Association (ESDA). New Delhi. India. • Life Member of Agricultural & Environmental Technology Development Society (AETDS), U.S. Nagar, Uttarakhand, India. 	

Publications

1. Sharma N, Bahuguna V, Rawat R, Felicia Lalremruati F, Singh A. Complete plant regeneration of *Valeriana wallichii* on auxin enriched medium and phytochemical analysis. *Plant Science Today*. 2020;7(3):1–9. <https://doi.org/10.14719/pst.2020.7.3.837>
2. **Nishesh Sharma**, Ajay Singh, Felicia Lalremruati, Vanlalmalsawmi, Rohit Sharma. **2019**. Diverse application and future prospects for commercial cultivation of microalgae species: A review. *Plant Science Today*. 6(4): 427-432.
3. Pallavi Dheer, Indra Rautela, Vandana Sharma, Manjul Dhiman, Aditi Sharma, Nishesh Sharma, Manish Dev Sharma. Evolution in Crop Improvement Approaches and Future Prospects of Molecular Markers to CRISPR/Cas9 System. *Gene*. 2020/5/22. <https://doi.org/10.1016/j.gene.2020.144795>.
4. Kumar, V., Kumar, S., Chauhan, P.K. *et al.* Low-temperature catalyst based Hydrothermal liquefaction of harmful Macroalgal blooms, and aqueous phase nutrient recycling by microalgae. *Sci Rep* **9**, 11384 (2019). <https://doi.org/10.1038/s41598-019-47664-w>
5. Bharti Ramola, Vinod Kumar, Manisha Nanda Yashi Mishra, Tushar Tyagi, Ayushi Gupta, Nishesh Sharma 2019. Evaluation, comparison of different solvent extraction, cell disruption methods and hydrothermal liquefaction of *Oedogonium* macroalgae for biofuel production. *Biotechnology Reports*. 22. <https://doi.org/10.1016/j.btre.2019.e00340>.
6. Varnika, Shalini, Ajay Singh Rohit Sharma, **Nishesh Sharma**. 2019. Conservation of endangered medicinal plant *Picrorhiza kurroa* through multiple shoot regeneration. *Biotechnologia*. 100 (3). 209–217.
7. Rohit Sharma, **Nishesh Sharma**, Avanish K Tiwari and Ajay Singh (**2019**). Catalytic Hydrothermal Liquefaction of Microalgae using Fe-MCM 41 Catalyst in Presence of Carbon Monoxide, *Asian J Chemistry*. 31. 2
8. Indra Rautela, Priya Thapliyal, **Nishesh Sharma**, Narotam Sharma And Manish Dev Sharma. **2019**. Review on applications of molecular markers to improvement of molecular biology of sugarcane. *Plant cell Biotech molecular Bio*.20(3&4):119-139.
9. Vivekanand Bahuguna, Ajay Singh, Sakshi Bhatt, Indra Rautela, M D Sharma, **Nishesh Sharma**. 2019. Conservation through micropropagation and comparative photochemical analysis of wild and micro propagated plants of *Picrorhiza kurroa*. *Plant cell Biotech molecular Bio*.20:151-161.
10. Rohit Sharma, **Nishesh Sharma**, Avanish K Tiwari and Ajay Singh (2018); Agent based simulation of mixed algal cultures (two and three species) using biogas as CO₂ source, *Int J Applied Engineering Res*.13 (6): 3844- 3851.
11. **Nishesh Sharma**, Indra Rautela, Rohit Sharma & Varnika, (2018). *In vitro* regeneration from leaf segments of endangered medicinal plant *Withania coagulans* (STOCKS) DUNAL. *Plant Cell Biotech Molecular Bio*. 19(3&4):134-142.
12. **Nishesh Sharma** and Koshy EP (2017). Comparative analysis of *invitro* regeneration potential of cotyledons of *Withania somnifera* and *Withania coagulans*. *Plant Cell Biotech Molecular Bio*. 18(1&2):22-29.

13. **Nishesh Sharma**, Indra Rautela and Manish Dev Sharma (2016). Mass propagation and GC-MS analysis of critically endangered plant *Withania coagulans*. Int. J Applied Biology Pharmaceutical Tech.7(2)
14. **Nishesh Sharma**, Koshy EP and Dhiman M (2014). Indirect regeneration from leaf segments for mass Propagation of *Withania somnifera* : An endangered medicinal plant. Int J Pharm Bio Sci 5(3): (B) 764 – 772.
15. **Nishesh Sharma**, Sharma M. D, Dhiman, M and Koshy, E. P. (2014). Micropropagation strategies for conservation of Endangered medicinal plant *Withania somnifera* (L.) Dunal. J cell tissue res.14(2) 4333-4338.

CONFERENCE PROCEEDINGS

1. Invitro multiple shooting for conservation of endangered medicinal plant *Rauwolfia serpentine*. National Seminar on – Empirical research on alternate medicine. UNITED group of pharmacy Allahabad. October 6-7, 2018. 36-39.
2. *In vitro* Conservation and Comparative GC-MS Analysis of Roots of Mother and micropropagated plant of *Withania somnifera*. International Conference on New Horizons in Green. SSRN: <https://ssrn.com/abstract=3299847> or <http://dx.doi.org/10.2139/ssrn.3299847>.
3. Effect of Salt Stress on Growth of Selected Varieties of *Triticum aestivum*. International Conference on New Horizons in Green. SSRN, Elsevier, <https://ssrn.com/abstract=3298696> or <http://dx.doi.org/10.2139/ssrn.3298696>.

SEMINARS / CONFERENCES / WORKSHOPS ATTENDED & PARTICIPATED

1. Undergone faculty Development programme organized by ICFAI university at Dehradun.
2. Attended National Conference on “Traditional conservation of plant diversity & energy resources vis-à-vis biotechnological tools for sustainability”, CCS University Meerut (25-26, December 2010)
3. National Workshop on “Techniques for In vitro farming, isolation & characterization of secondary metabolites for sustenance of medicinal plants” CCS university Meerut (March 07-12, 2011)
4. Organized a workshop on “Bioinstrumentation & Bio-Analytical Techniques in Biological Sciences” at Chinmaya Degree college, Haridwar.
5. Supervised the conduction of exhibition “Perspective & Prospects of Biotechnology”, organized by Department of Biotechnology & Microbiology, Chinmaya Degree College (26, November 2011).
6. National Seminar on “Bio- Degradation & Bioremediation –A novel Remedy for Pollution Abatement” organized by Uttaranchal College of Technology & Bio-Medical Sciences Dehradun (18, February, 2012).
7. National symposium on “Emerging Trends in Biotechnology-2012” Feb. 24, 2012. Organized by Multani Mal Modi College, Patiala.
8. International conference on “New Horizons in Pharmaceutical & Biomedical Sciences” 12-13 Jan., 2013. Organized by Sheetal life sciences (P) Ltd. Dehradun and Society of environment, health & biotech.
9. National conference on “Knowledge sharing & IP Management evolving strategies in India” 25, March, 2012. Organized by KL DAV PG College Roorkee.
10. National seminar on “Trends In Plant Sciences”, 19-20, March, 2013. Organized by Department of Botany, D.A.V (PG) College, Muzaffarnagar.
11. National conference on “ Innovations In Ethnopharmacology, Recent Developments In Biological And Chemical Sciences For Societal Benefits”, 1-3, March, 2013. Organized by Department of Zoology, L.S.M. Govt. Post graduate college, Pithoragarh, Uttarakhand.
12. 7th Uttarakhand State Science & Technology Congress-2012, 21-23 November, 2012. Organized by UCOST Dehradun.
13. National seminar on “ Natural Resources & Environment” 13-14, October, 2012. Organized by

Chinmaya degree college, Haridwar.

14. 8th Uttarakhand state science & technology congress-2013, 26-28, December, 2013. Organized by UCOST Dehradun.
15. National conference on “Science of Omics for Agriculture Productivity: Future Perspectives”, 4-6, march, 2014. Organized by department of molecular biology& genetic engineering, g.b. pant university of agriculture & technology, Pantnagar.
16. International conference “Health, Environment & Industrial Biotechnology”, 21-23, November, 2013. Organized by Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad.
17. National conference on “ lead development and drug designing: emerging opportunities”. Organized by United group of pharmacy, Naini Allahabad, on 26 September 2014.
18. International conference “ Life Science and Bioengineering”, 22-23 Nov., 2014. Organized by Institute of Applied Medicines and Research, Ghaziabad.
19. Organizing Secretary. 5 Day training programme on Molecular Diagnostics, organized by department of Biotechnology UCALS, Uttaranchal University Dehradun. December 6th -10th 2018.
20. Participated in International Conference on “Global Environmental Challenges Human Health and Sustainable Development” held at The Convention Center, Jawaharlal Nehru University, New Delhi, India, January,11-13,2019.
21. Participated in Workshop on “Bio-Analytical Tools and Techniques in The Modern Era of Diagnostics” DNA Labs – A Centre for Applied Sciences (DLCAS), Dehradun, Uttarakhand, India, April, 13-14,2019.
22. Participated in National Conference on “Current Trends in Phytomedicine & Nutraceuticals for Global Health” (CTPNGH-2020), United Institute of Pharmacy, Naini, Prayagraj, India, February,7-8,2020.
23. Attended One Week Faculty Development Programme on “Research Methodology”, Department of Computer Science & Engineering, UIT, Uttaranchal University, Dehradun, India, December,4-9,2017.
24. Participated in Teachers’ Congruence & Faculty Development Programme on “Various Topics of Professional Interest”, UIT, Uttaranchal University, Dehradun, India, July,16,2018.
25. Participated in Faculty Development Programme on “Innovative Techniques and Magnitude of Teaching Methodology in Higher Education”, Uttaranchal University, Dehradun, India, July,16-22,2018.
26. Participated in Two Day Workshop on “Research Practices and Design for Professionals” held on Department of Food Technology, Uttaranchal College of Applied and Life sciences, Uttaranchal University, Dehradun, India, February,8-9,2019.
27. Participated in Faculty Development Programme on “Advanced Research & Statistical Techniques”, Uttaranchal University, Dehradun, India, February,22-28-2019.

SEMINAR/ CONFERENCE / WORKSHOP ORGANIZED

	Seminar / workshop / conference	Organized by	Date / year	Responsibility
1	workshop on “Bioinstrumentation & Bio-Analytical Techniques in Biological Sciences	Dept. of Biotechnology Chinmaya Degree College, Haridwar	21-24 th September , 2011	Organizing Secretary
2	Five Day training programme on Molecular Diagnostics.	Dept. of Biotechnology	6-10 Dec 2017	Organizing Secretary

		UCALS, Uttaranchal University, Dehradun		
3	National seminar on Current and future prospects in Indian industry and research	UCALS, Uttaranchal University, Dehradun	4-5 May 2018	Organizing Secretary
4	International Conference on new horizons green chemistry and technology	Dept.of Chemistry & Biotechnology UCALS, Uttaranchal University, Dehradun	27-28 Nov. 2018	Joint Secretary
5	National Seminar on World Cancer Day	Dept. of Biotechnology UCALS, Uttaranchal University, Dehradun	4 Feb 2019.	Organizing Secretary
6	One Week training programme on Quality control and Analytical Techniques, organized by Dehradun	Department .of Biotechnology UCALS, Uttaranchal University, Dehradun	22 -27 Feb 2019.	Organizing Secretary
7	National seminar on strategies for conservation and sustained utilization of biodiversity	Department of Biotechnology SALS, Uttaranchal University, Dehradun	18-19 Oct. 2019	Organizing Secretary