


Curriculum Vitae

Full Name:	DR. DHANANJAY KUMAR			
Designation:	Assistant Professor			
Department:	Botany			
Campus:	Srinagar			
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Education Qualification:	<ul style="list-style-type: none"> • B. Sc. (Botany, Zoology, Chemistry, 2002), First Division from University of Allahabad, Prayagraj, Uttar Pradesh, • M. Sc. (Botany, 2004), First Division from Banaras Hindu University, Varanasi, Uttar Pradesh, • Ph.D. (Botany, 2011), from Banaras Hindu University, Varanasi, • Postdoctoral Research (2012-13) from Jawaharlal Nehru University, New Delhi, • Qualified National Eligibility Test (2004) for Lectureship and Junior Research Fellowship from CSIR, New Delhi. 			
Teaching Experience:	10 Years	Research Experience:	18 Years	
Research Interest and Fields of Specialization				
<ol style="list-style-type: none"> 1. Algal Biotechnology 2. Aquatic Toxicology 3. Phycoremediation 4. Nanobiotechnology 				
Honours & Awards				
<ol style="list-style-type: none"> 1. Dr. D.S. Kothari Postdoctoral Fellowship from University Grants Commission, New Delhi (2012-2013) 2. Senior Research Fellowship from Council of Scientific and Industrial Research, New Delhi (2007-2009) 3. Junior Research Fellowship from Council of Scientific and Industrial Research, New Delhi (2005-2006) 				
Membership of Scientific Organizations				
<ul style="list-style-type: none"> • Life Member of the Association of Microbiologists of India, India • Life Member of Biotech Research Society, India 				
Research Supervision				
Post-doctoral Student: 01 Ph.D. Awarded: 02 Ph.D. registered: 03				
Research Projects/ MoU undertaken				
<ol style="list-style-type: none"> 1. Potential of algal biofilms in bioremediation of domestic and industrial wastewaters: a promising approach for industrial applications. Sanctioned from Department of Science and Technology, New Delhi; India Grant No. DST/WOS-B/AFE-23/2021; Cost: 27 Lakhs; Role: Mentor; Status: On-going, Duration: 2021-2024. 2. Diversity of microalgae and cyanobacteria across the thermal- and chemical gradients in geothermal fields of Uttarakhand Himalaya. [Sanctioned from UGC, New Delhi; Grant No. F. 30-6/2014/2014(BSR); Cost: Six Lakhs; Role: Principal Investigator; Status: Completed; Duration: 2014-2016]. 				

3. Assessment of Functional Role of atTic-22-III Gene in Protein Import into Chloroplast. [Sanctioned from University Grants Commission, New Delhi; Grant No. F. 4-2/2006(BSR)/13-580/2012(BSR); Cost: 17 Lakhs; Role: Principal Investigator; Status: Completed; Duration: 2012-2013].

Publications during the last five years (2018-2023)

Journals (10)

1. Kumar, A., Pandey, S.S., **Kumar, Dhananjay***, Tripathi, B.N. (2023). Genetic manipulation of photosynthesis to enhance crop productivity under changing environmental conditions. *Photosynthesis Research* 155: 1-21 [Impact Factor: 3.7].
2. Seth, B.M.*, Uniyal, V., **Kumar, Dhananjay**, Singh, A. (2022). Sorption of cationic and anionic dyes by dead biomass of filamentous green alga *Cladophora* sp. (Chlorophyceae). *International Journal of Environmental Science and Technology* 19:12079-12090 [Impact Factor: 3.1].
3. Ikram, S.F., Uniyal, V., **Kumar, Dhananjay*** (2022). Changes in species composition of cyanobacterial and microalgal communities along a temperature gradient in Tapovan Hot Spring, Garhwal Himalaya, Uttarakhand, India. *Aquatic Ecology* 56: 573-584. [Impact Factor: 1.8].
4. Singh, P.* and **Kumar, Dhananjay** (2022). Biomass and lipid production potential of microalgae and cyanobacteria isolated from the diverse habitats of Garhwal Himalaya, India. *Biomass and Bioenergy* 162: 106469 [Impact Factor: 6.0].
5. Ikram, S.F., Singh, L., **Kumar, Dhananjay***, Sharma, C.M. (2022). Prospects and constraints in studying the biodiversity of agriculturally important microalgae and cyanobacteria and useful statistical tools. *Biodiversity and Conservation* 31:1095-1124. [Impact Factor: 3.4].
6. Ikram, S.F., **Kumar, Dhananjay***, Singh, V., Tripathi, B.N., Kim, B.H. (2021). Microalgal and cyanobacterial diversity of two selected hot springs of Garhwal Himalaya, Uttarakhand, India. *Fundamental and Applied Limnology* 195:111-127. [Impact Factor: 1.0].
7. Singh, P.*, **Kumar, Dhananjay** (2021). Biomass and lipid productivities of cyanobacteria -*Leptolyngbya foveolarum* HNBGU001. *BioEnergy Research* 14: 278-291. [Impact Factor: 3.6].
8. Rai, J., **Kumar, Dhananjay***, Gaur, J.P., 2019. Sorption of malachite green (a cationic dye) and heavy metals by dead biomass of *Phormidesmis molle* (cyanobacteria)-dominated mat. *Water and Environment Journal*, 33:51-60. [Impact Factor: 2.0].
9. Yadav, A*., **Kumar, Dhananjay**, Singh, R.S., Pandey, L.K., Rai, J., 2018. Seasonal variations in response of periphytic algal community to nutrient enrichment in the river Ganga (Varanasi, India). *International Journal of Limnology*, 54:32- 44 [Impact Factor: 1.0].
10. **Kumar, Dhananjay***, Pandey, Lalit K., Gaur, J.P., 2018. Growth of *Phormidium bigranulatum*-dominated mat in relation to nature of the substratum, time, pH and nutrient availability. *Environmental Engineering & Management Journal* 17: 307-316. [Impact Factor: 1.1].

Book Chapters (04)

1. Singh, P., Singh, R.K., **Kumar, Dhananjay**, Tiwari, S.P. (2020). Ecology of the diazotrophic microbiome. In: Srivastava A.K., Kashyap, P.L., Srivastava, M. (eds.) *The Plant Microbiome in Sustainable Agriculture*, John Wiley & Sons, Ltd, pp. 81-99. eBook ISBN:9781119505457, Hardcover ISBN: 9781119505167.
2. Maurya, V.K., **Kumar, Dhananjay**, Tiwari, B.S. (2018). Involvement of reactive species of oxygen and nitrogen in triggering programmed cell death in plants. In: Vats

S. (ed.) *Biotic and Abiotic Stress Tolerance in Plants*, Springer Nature Singapore, pp. 257-278. eBook ISBN 978-981-10-9029-5, Hardcover ISBN: 978-981-10-9028-8.

3. Fonia, A., Singh, P., Singh, V., **Kumar, Dhananjay**, Tripathi, B.N. (2018). Molecular mechanisms of heavy metal hyperaccumulation in plants. In: Chandra, R., Dubey, N.K. and Kumar, M. (eds), *Phytoremediation of Environmental Pollutants*, CRC Press (Taylor and Francis), pp. 99-116. ISBN: 978-113-80-6260-3
4. Singh, P., Singh, R.K., **Kumar, Dhananjay** (2018). Microalgae: potential agents for carbon dioxide mitigation. In: Kashyap, P.L., Srivastav, A.K., Tiwari, S.P., Kumar, S. (eds), *Microbes for Climate Resilient Agriculture*, John Wiley & Sons, pp. 57-74. ISBN: 978-111-92-7602-9

Summary of the Publications

Total Number of Published Items: 34

Research Papers Published in SCI-Indexed Journals: 27

Total Impact Factor (2022) of Published Papers: 170

Edited Book from International Publisher (Springer Nature): 01

Book Chapters from International Publishers: 05

Papers with Impact Factor (>10): 08

Papers with Impact Factor (>5-10): 07

Papers with Impact Factor (1 < 5): 12

*Corresponding Author; Impact Factor: Clarivate Analytics, 2023
