Curriculum Vitae

Full Name:	DR. DHANANJAY KUMAR			
Designation:	Assistant Professor			
Department:	Botany			
Campus:	Srinagar Campus			
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Education Qualification:	Ph.D. (Botany): Banaras Hindu University, Varanasi (2011) Postdoctoral Research: Jawaharlal Nehru University, New Delhi (2012-2013)			
Teaching Experience:	06 Years	**Research Experience:**	14 Years	

Research Interest and Fields of Specialization

1. Algal Biotechnology
2. Aquatic Toxicology
3. Phycoremediation
4. Nanobiotechnology

Honours & Awards

1. Associate Editorship of *Frontiers in Bioengineering and Biotechnology* for editing a special issue on *Algal Bioenergy and CO_2 sequestration (in progress)*.
2. Editorial Board Member of International Journals:
   - Management of Environmental Quality: An International Journal (ISSN: 1477-7835),
   - Austin Journal of Plant Biology, Austin, USA,
   - Austin Journal of Environmental Toxicology, Austin, USA.
3. Reviewer of International Journals:
   Water Research, Bioresource Technology, Chemical Engineering Journal, Separation Science & Technology, Environmental Science & Pollution Research, Adsorption Science & Technology, Protoplasma, Chemical Engineering Communications, Bioremediation Journal, Desalination & Water Treatment, International Journal of Environmental Science and Technology etc.
4. Dr. D.S. Kothari Postdoctoral Fellowship from University Grants Commission, New Delhi (2012-2013)
5. Senior Research Fellowship from Council of Scientific and Industrial Research, New Delhi (2007-2009)
6. Junior Research Fellowship from Council of Scientific and Industrial Research, New Delhi (2005-2006)

Member of Academic Institutions

Membership of Scientific Organizations

- Life Member of Association of Microbiologists of India, India
- Global Environmental Society, Zuerich, Switzerland,
- International Society for Environmental Information Sciences, Saskatchewan, Canada
- International Association of Computer Science and Information Technology, Singapore

Research Supervision (No. of Ph.D. Degree Registered)- 03

Research Projects/ MoU undertaken

1. Diversity of microalgae and cyanobacteria across the thermal- and chemical-gradients in geothermal fields of Uttarakhand Himalaya. (*Sanctioned from UGC, New Delhi; Cost: Six*

Lakhs).

Scientific Visits Abroad/ International Collaboration

Conference/Symposium/Workshop Attended during last five years (2014-2019)

International

National

1. **Kumar, Dhananjay** (2018). Delivered an Invited lecture entitled '*Fascinating Facts of Algal World***'** on September 18, 2018 in the First Orientation Program of Faculty Development Centre, HNB Garhwal University, Srinagar-Garhwal.
2. **Kumar, Dhananjay,** Rai Jyoti, Yadav, Arpana, Gaur, J.P. (2015). Is it feasible to use algae for detoxification of metal-enriched wastewaters? In: National Conference on Microbes in Extreme Environment: Diversity and Translational Applications. Seminar held at Department of Botany & Microbiology, School of Life Science, H.N.B. Garhwal University, Srinagar, Garhwal 246 174 (October 30-31, 2015).
3. Jyoti, Rai, **Kumar, Dhananjay**, Pandey, L.K., Yadav, Arpana, Gaur, J.P. (2015). Self immobilized cyanobacterial mat as a candidate for nutrient removal and biomass production from wastewater. In: Emerging trends and challenges in plant science research. Symposium held at Department of Botany, Banaras Hindu University, Varanasi (February 19-20, 2015).
4. **Kumar, Dhananjay,** Pandey, L.K., Yadav, A., Rai, Jyoti, Gaur, J.P., 2014. Removal of metal ions from aqueous solutions by non-living biomass of cyanobacterial mats. *Oral presentation* In: Biotechnology and Stress Biology of Algae and Cyanobacteria. Seminar held at Department of Botany, Banaras Hindu University, Varanasi (February 24-26, 2014).

Conference/Symposium/Workshop Organized during last five years (2014-2019)

Publications during last five years (2014-2019)

Journals (07)

1. 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. [Imapct Factor: 1.224, Citation: 00].
2. 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: 0.889, Citation: 00].
3. **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: 1.334].
4. **Kumar, Dhananjay*,** Pandey, Lalit K., Gaur, J.P. (2016). Metal sorption by algal biomass: from batch to continuous system. *Algal Research*, 18: 95-109. [Impact Factor: 3.745, Citation: 12].
5. Rai, Jyoti, **Kumar, Dhananjay,** Yadav, Arpana, Gaur, J.P. (2016). Potential of cyanobacterial biofilms in phosphate removal and biomass production *Journal of Environmental Management* 177: 138-144 [Impact Factor: 4.005, Citation: 03].
6. **Kumar, Dhananjay***, Gaur, J.P., 2014. Growth and metal removal potential of a *Phormidium bigranulatum*-dominated mat following long-term exposure to elevated levels of copper. *Environmental Science & Pollution Research* 21:10279-10285. [Impact Factor: 2.80, Citation: 05].
7. Pandey, Lalit K.*, **Kumar, Dhananjay**, Yadav, Arpana, Rai, Jyoti, Gaur, J.P., 2014. Morphological abnormalities in periphytic diatoms as a tool for biomonitoring of heavy metal pollution in a river. *Ecological Indicators* 36:272-279. [Impact Factor: 3.983, Citation: 25].

Edited Book (01)

1. B.N. Tripathi and **Dhananjay Kumar (eds.) 2017.** Prospects and Challenges in Algal Biotechnology, Springer Nature Singapore, eBook ISBN 978-981-10-1950-0, Hardcover ISBN: 978-981-10-1949-4.

Book Chapters (04)

1. 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 Singarpore, pp. 257-278. eBook ISBN 978-981-10-9029-5, Hardcover ISBN: 978-981-10-9028-8.
2. 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
3. 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
4. Pandey, S.S., **Kumar, Dhananjay**, Tiwari, B.S. (2017). Chloroplast metabolic engineering for agriculture. In: Dubey, S.K. Sangwan R.S., Pandey, A. (eds), *Current Developments in Biotechnology and Bioengineering*, Volume 8: Crop Modification, Nutrition, and Food Production. Elsevier, pp. 149-161. ISBN: 978-044-46-3666-4

Total Number of Published Items: 25
Total Impact Factor (2018) of Published Papers: 88.89
Author H-Index: 13
Total Citation: 761
Papers with Impact Factor (5-10): 08