


<b>NAME</b>	<b>Dr. RAJEEV KUMAR</b>		
<b>DESIGNATION</b>	<b>ASSOCIATE PROFESSOR</b>		
<b>EMAIL ID</b>	rkumar23@amity.edu		
<b>CONTACT NUMBER</b>	+91-9810900139		
<b>RESEARCH INTERESTS</b>	<ul style="list-style-type: none"> <li>• Stress Biology in Plants.</li> <li>• Conservation Biology (In vivo/In vitro germplasm conservation &amp; cryopreservation).</li> <li>• Micropropagation of medicinal and ornamental plants.</li> <li>• Plant Tissue Culture Lab and Greenhouse Management.</li> <li>• Identification and Description of Angiosperms.</li> <li>• Phylogenetic Biology.</li> </ul>		
<b>EDUCATIONAL QUALIFICATIONS:</b>			
Name of College / University	Degree	Year	
B. R. A. Bihar University, Muzaffarpur	M.Sc. (Botany)	1998	
B. R. A. Bihar University, Muzaffarpur	Ph.D.	2002	
<b>Title of Ph.D. thesis:</b> Tissue culture studies of some important varieties of banana.			
<b>EXPERIENCE (in chronological order): More Than 20 Years Research &amp; Teaching</b>			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Production executive	Production	Sheel Biotech Pvt. Ltd. Manesar, Gurgaon	Sep. 2002- March 2004
<b>No. of Ph.D. students supervised</b>	<p><b>Completed: 3</b></p> <ul style="list-style-type: none"> <li>• Molecular Characterization and Behavioral Manipulation of Natural Enemies of Solanaceous Crops (2020).</li> <li>• Genetic Diversity and Ex-situ Conservation in Pomelo (2021).</li> <li>• Seed Biology of Wild <i>Musa</i> Species and Cryopreservation Protocols (2023).</li> </ul> <p><b>Ongoing: 2</b></p> <ul style="list-style-type: none"> <li>• Identification of Water-Logging Stress Tolerance Genes in Diverse Genotypes of Sesame (<i>Sesamum indicum</i> L.)</li> <li>• Role of Flavonoid Biosynthesis Pathway Gene(s) on Seed Oil Content of <i>Brassica juncea</i>.</li> </ul>		
<b>No. of Post-Doc</b>	-		
<b>No. of M.Tech. Students supervised:</b>	More than 10		
<b>No. of B.Tech. Students supervised:</b>	More than 25		

## PUBLICATIONS - 20

- **Kumar R**, Singh R. K, Shah A, Srivastava A. K, Singh U. P, Agarwal A. Banana Cultivation and Micropropagation in India: Addressing Challenges and Exploring Future Prospects. *Biotech Res Asia* 2024;21(4).
- Anupama Sharma Avasthi, Abhinav Kumar Srivastava, Harsh Baghel, Shubhangi Sharma, Udai Pratap Singh and **Rajeev Kumar**. Improved protocol for micropropagation of genetically uniform plants of pharmacological importance - *Phyllanthus niruri* using a single-step nodal cutting technique. *Advances in Bioresearch*. Vol 15 (1) January 2024: 448-454  
DOI: 10.15515/abr.0976-4585.15.1.448454
- Shah A, Mishra P, Gadol N, Jain N, **Kumar R**, Kalia S, Singh NK, Rai V. An efficient method for extracting pure DNA from the oil seed crop *Sesamum indicum* L. *J App Biol Biotech*. 2024;12(6):244-250. <http://doi.org/10.7324/JABB.2024.186400>
- Aparna Kaushik, **Rajeev Kumar**, Archana Kumar, Ravi Kant Singh. *Parthenium hysterophorus*: Unveiling Harmful Impacts, Beneficial Potentials, and Novel Management Approaches. *Journal of Chemical Health Risks*. 2024. 14(4), 693- 704
- **Rajeev Kumar**, Tapoja Saha, Awyang Chaturvedi, Abhishek Singh, Priya, Dhruv Kumar. Deciphering the frontiers of stem cell research in regenerative medicine. *Chemical Biology Letters*. 2024. 11(4), 673. <https://doi.org/10.62110/sciencein.cbl.2024.v11.673>
- Shriya Dube, Chanchal Kumari, Abhinav Kumar Srivastava, Udai Pratap Singh, Anshuman Shah1, **Rajeev Kumar**. A Systematic Review to mitigate biotic constrains in Agricultural crops using CRISPR/Cas9 system: Endless Advancement in Plant Molecular Biology. *Advances in Bioresearch*, Vol 15 (1) January 2024: 261-269  
DOI: 10.15515/abr.0976-4585.15.1.261269
- Shah A, Gadol N, Priya G, Mishra P, Rao M, Singh NK, **Kumar R**, Kalia S, Rai V. Morpho-physiological and metabolites alteration in the susceptible and tolerant genotypes of sesame under waterlogging stress and post-waterlogging recovery. *Plant Stress*. 2024 Mar 1;11:100361.  
DOI: 10.1016/j.stress.2024.100361
- Swati K, Agrawal K, Raj S, **Kumar R**, Prakash A, Kumar D. Molecular mechanism (s) of regulations of cancer stem cell in brain cancer propagation. *Medicinal Research Reviews*. 2023 May; 43(3):441-63. <https://doi.org/10.1002/med.21930>
- Udai Pratap Singh, Anubha Gupta, **Rajeev Kumar**, Abhinav Kumar Srivastava (2022). Ring Chromosomes and Associated Disorders: A Review. Vol. 4, Issue 1. <https://doi.org/10.46610/RAPLS.2022.v04i01.001>
- Singh S, Agrawal A, **Kumar R**, Thangjam R, John KJ. Seed storage behavior of *Musa balbisiana* Colla, a wild progenitor of bananas and plantains-implications for ex situ germplasm conservation. *Scientia Horticulturae*. 2021 Apr 5;280:109926.  
DOI: 10.1016/j.scienta.2021.109926
- Singh S, Thangjam R, Harish GD, Singh H, **Kumar R**, Meena DP, Agrawal A. Conservation protocols for *Ensete glaucum*, a crop wild relative of banana, using plant tissue culture and cryopreservation techniques on seeds and zygotic embryos. *Plant Cell, Tissue and Organ Culture (PCTOC)*. 2021 Jan;144:195-209. DOI: 10.1007/s11240-020-01881-8
- Udai Pratap Singh, Surabhi Singh, **Rajeev Kumar**, Nar Singh Chauhan and Archana Kumar. Assessment of allelochemical induced foraging behaviour potential of Trichogrammatids. *Allelopathy Journal*. July 2020, 50 (2): 195-121. DOI: 10.26651/allelo.j/2020-50-2-1284
- Singh UP, Singh S, **Kumar R** and Kumar A. Brinjal Synomones as Stimulants for Three Trichogrammatids. *International Journal of Biology, Pharmacy and Allied Sciences (IJPAS)* June, 2020, 9(6): 1357-1366 <https://doi.org/10.31032/IJPAS/2020/9.6.5092>
- Sukhdeep Kaur,S K Malik, Ravish Choudhary, Rohini M.R, Rekha Chaudhury, **Rajeev Kumar** (2019) Morphological characterization of Pummelo (*C. maxima*) germplasm collected from different parts of India.

	<p>Indian Journal of Horticulture.Vol No. 76 (1) pp.16- 22  DOI : 10.5958/0974-0112.2019.00003.3</p> <ul style="list-style-type: none"> <li>• Sukhdeep Kaur, S K Malik, Ravish Choudhary, Rekha Choudhury, <b>Rajeev Kumar</b> (2019) Micropropagation, in-vitro conservation and genetic stability studies in pummelo (Citrus maxima). The Indian Journal of Agricultural Sciences, Vol 89, No 2 pp 293–299.  <a href="https://doi.org/10.56093/ijas.v89i2.87022">https://doi.org/10.56093/ijas.v89i2.87022</a></li> <li>• <b>R Kumar</b> (2018) Enhancing the Practices of Tissue Culture Banana among Marginal Farmers of Bihar. International Journal of Advances in Agricultural Science and Technology.Vol.5 (Issue.2) pp. 69-76.</li> <li>• <b>R Kumar.</b> (2017) Banana Tissue Culture in India; Status, Opportunities and Challenges. Trends in Biosciences.Vol.10 (Issue 45) pp. 9237-9241.</li> <li>• <b>R Kumar.</b> ( 2016 ) Effect of Ambient Air Pollution on Photosynthetic Pigments of Litchi chinensis near Muzaffarpur Thermal Power Station, Muzaffarpur, Bihar. Nature Environment and Pollution Technology. Vol. 15 (Issue No. 3), pp. 939- 942.</li> <li>• <b>Kumar R.</b> Sinha K. and Kumar S. (2005) Micropropagation of Banana cv Malbhog through meristem tip culture in consort with thermotherapy – Phytomorphology ; 55 pp.17-22.</li> </ul>
<b>PATENTS - 01</b>	<i>Details:</i>
<b>RESEARCH PROJECTS</b> Ongoing: <b>01</b>	Biological significance of disease-specific glycosylation in Triple Negative Breast Cancer (33.5 Lakhs, ICMR-funded).
<b>MEMBERSHIP</b> with Professional/ Academic bodies	<ul style="list-style-type: none"> <li>• Member of committees such as PROAC, BoS, and AAB.</li> <li>• Chief Coordinator, Plant Biotechnology; Coordinator, IQAC.</li> <li>• Member of Entrepreneurship and Examination Cells.</li> <li>• Programme Leader for academic and extracurricular coordination.</li> </ul>