Name	**Dr. Mukesh Kumar**		
Date of Birth	**30.08.1972**		
Designation	**Professor,** **Department of Biotechnology, SVP University of Ag. &Tech., Meerut-250110 (UP) India**		
Residential Address	**4/111 Rakshapuram Mawana Road, Meerut-250001 (UP) India**		
Qualification			
Degree Program	**Name of Institute**	**Year**	
Ph.D. Biotechnology	Jamia Hamdard University, New Delhi, India	2010	
M.Sc. Biotechnology	Ch. Charan Singh University, Meerut, (UP) India	1998	
B.Sc. Biology	Ch. Charan Singh University, Meerut, (UP) India	1993	

Specialization / Research Area / Consultancy	➢ Plant Tissue culture, Genetic Engineering for Abiotic and Biotic stress management
Achievements	**12**
	➢ Qualify Graduate Aptitude Test in Engineering (GATE) -1998 in Biotechnology ➢ JRF- NATP-ICAR, New Delhi ➢ Reviewer of International Journal of Agricultural Science and Technology (JAST) ➢ Reviewer of International Greener Journals (www.gjournals.org) ➢ Editor of Progressive Agriculture, an International Journal ➢ Editor**,** Annals of Horticulture Meerut (UP) India ➢ Member**,** Editorial Board of the Indian Journal of Agriculture Business, Red Flower Publication, New Delhi- India

	➢ In-charge of Field laboratory and Experimental Station ➢ In-charge of Store ➢ Member of SRF selection committee ➢ Nodal Officer, Kisan Mela, Department of Biotechnology ➢ Chairman of Physical Verification Committee
Fellow and Awards	**08**
	➢ **Best Scientist (Research) Award – 2015** from Society for Scientific and Social Development (SSSD), Meerut- (UP) India ➢ **Gold Medal Award - 2016** from Society for Hi –Tech Horticultural Sciences (HTHS), Meerut - (UP) India ➢ **Excellence in Teaching Award** form Society for Human Resource and Innovation (SHRI), Agra - (UP) India ➢ **Fellow Award - 2016** from Society for World Environment, Food and Technology (SWEFT), New Delhi, India Honored during National Conference on Intervention of Climate Change in Sustainable Development of Agriculture, Food and Nutrition Security and its Amelioration held on 23-25 March, 2018 at Swami Vivekanand Subharti University, Meerut- (UP) India ➢ **Young Scientist Award - 2017**from Society for Hi –Tech Horticultural Sciences (HTHS), Meerut - (UP) India, Honored during Global Meet on Science and Technology for Ensuring Quality Life (GMST-2017) held on 26-30 November, 2017 at Kuala Lumpur, Malaysia ➢ **Oral Presentation Award - 2017** from Society for Hi –Tech Horticultural Sciences (HTHS), Meerut - (UP) India, Honored during Global Meet on Science and Technology for Ensuring Quality Life (GMST-2017) held on 26-30 November, 2017 at Kuala Lumpur, Malaysia ➢ **Excellence in Teaching Award - 2018** from Society for Scientific Development in Agriculture & Technology, Honored during International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2018) held on 28-30 October, 2018 at Jaipur, Rajasthan India ➢ **Scientist of the Year Award - 2018** from Agro-Environmental Development Society, Honored during International Conference on Emerging Issues in Agricultural, Environmental& Applied Sciences for Sustainable Development (EIAEASSD-2018) held on 27-29 November, 2018 at Sam Hingginbottem University of Agriculture, Technology and Science, Allahabad (UP) India

	➢ **Honorary Fellowship Award -2020** from Society for Edwin Group of Journal Jabalpur- (MP), India.
Nucleotide Genes Submitted in NCBI Gene Bank	**41 Genes submitted in Gene Bank**
	➢ **One Protease Inhibitor gene of Pigeonpea** submitted in Gene Bank with the Accession No. as-GU320336.1 ➢ **Six Protease Inhibitor genes of Potato** with the **Accession No.** as- KX463982, KX463983, KX463984, KX463985, KX463986, KX463987 ➢ **Twenty-two ITS- rDNA sequences** of *Rhizoctonia solani* in Gene Bank with the **Accession No.** as- KT968709, KT968711, KU215866, KU215867, KU215868, KU215869, KU215870, KU215871, KU215872, KU215873, KU215874, KU215875, KU215876, KU215877, KU215878, KU933588, KU933589, KU933590, KU933591, KU933592, KU933593 and KU933594 ➢ **Ten ITS- rDNA sequences of Trichoderma Isolates** *T. asperellu* MW776753 *T. asperellum* MW776754 *T. asperellum* MW776755 *T. asperellum* MW776756 *T. longibrachiatum* MW776757 *T. harzianum* MW776758 *T. harzianum* MW776759 *T. harzianum* MW776760 *T. longibrachiatum* MW776761 *T. longibrachiatum MW776752* ➢ **β-1,6-glucanase gene from Trichoderma Isolates**- OP796481 ➢ **Laminarinase gene form Trichoderma Isolates**- OP796482
Trainings	**04**
	➢ On **"Data mining techniques and tools for knowledge discovery in Agricultural datasets"** held on 3rd Nov. to 23rd Nov., 2011 at Indian Agricultural Statistics Research Institute, Pusa, New Delhi, India ➢ On "**Recent Trends in Agricultural Sciences**" held from 19th April to 02nd May, 2017 organized by Hi-Tech Horticultural Society, Meerut and Department of Horticulture, S V P University of Ag. & Tech., Meerut (UP) India ➢ On "**Research Methodology**" held from 04th February to 09th February, 2019 at UGC- Human Resource Development Centre, Jamia Millia Islamia, New Delhi, India

	➢ on "**Teaching Excellence"** held from 01st Nov., 2019 to 30th, Nov., 2019 organized by ICAR- National Academy of Agricultural Research Management, Rajendranagar, Hyderabad - 500030 Telangana, India
Member ship of Professional Societies	
	➢ **Life Member**, Society of Biotechnology, New Delhi ➢ **Life member,** Society for Recent Development in Agriculture, Meerut ➢ **Life member,** Society for Human Resource and Innovation (SHRI), Agra - (UP) India ➢ **Life member,** Society for Society for World Environment, Food and Technology (SWEFT), New Delhi, India ➢ **Life member,** Society for Scientific and Social Development (SSSD), Meerut-(UP) India ➢ **Life member,** Society for Hi –Tech Horticultural Sciences (HTHS), Meerut - (UP), India ➢ **Member,** Research and Education Development Society, Modipuram, Meerut ➢ **Member,** Society of Biochemistry and Biotechnology, New Delhi ➢ **Member,** Applied and Natural Science Foundation, Haridwar
Experience	**19 Years**
Teaching Experience	**19 Years For teaching UG, PG and Ph.D. students** In the Department of Biotechnology S V P University of Ag. & Tech., Meerut-250110 (UP) India
Student Guided	**36**
M.Sc. **Ph.D.**	**21 (9As a Chairman +15 As a Member)** **15 (5As a Chairman + 10 As a Member)**
Student Guiding	**04**
M.Sc. **Ph.D.**	**02(As a Chairman)** **02(As a Chairman)**

Research Experience	**19 Years** In the Department of Ag. Biotechnology S V P University of Ag. & Tech., Meerut-250110 (UP) India
Research Project Handled **As PI**	➢ **Title of Project** "Strengthening of Tissue culture laboratory for production of tissue cultured plantlets of banana for the farmers of western Uttar Pradesh" **funded by UPCAR, Lucknow**
Research Project **Handled As Co- PI**	➢ **Title of Project** "Biotechnological intervention for genetic improvement in Basmati Rice to suit changing climate conditions of western Uttar Pradesh" **funded by RKVY, UPCAR, Lucknow** ➢ **Title of Project** "Genetic Improvement of major crops suitable for changing climate conditions of western Uttar Pradesh" **funded by RKVY, UPCAR, Lucknow** ➢ **Title of Project** "Designing, validation and identification of molecular marker for abiotic stress and related impact analysis on bioactive compounds of Turmeric" **funded by UPCAR, Lucknow** ➢ **Title of Project** "Development of disease resistant genotypes in green gram through marker assisted selection" **funded by UPCAR, Lucknow** ➢ **Title of Project** "Establishment of plant tissue culture facility for production of quality planting material of economically important crops" **RKVY, UPCAR, Lucknow**
Publications	**30**
	➢ Gyanchand, Sharma, M. K., Kumar, S., Sagar, S., Kumar, V. and **Kumar, M. (**2015). *In-vitro* androgenesis in papaya (*Carica papaya* L.) cv. Pusa Nanha. ***Journal of Applied and Natural Science*** 7 (1): 273-278 ➢ Kumar, V., Singh, B.R., Singh, G.R., Singh, S. and **Kumar, M.** (2015). Effect of Treatments on Tomato slices under green house type solar dryer and their quality characteristics of tomato powder. ***Progressive Research***, 10: 2291-2297. ➢ **Kumar, M.**, Kumar, V., Kansal, R., Srivastava, P.S. and Koundal, K.R. (2015). Purification of Protease Inhibitor Protein from Pigeonpea Seeds and its Insecticidal Potential against *Helicoverpa armigera* (Hubner). ***Journal of Pure and Applied Microbiology***, 9(2): 1223-1231 ➢ Kumar, V., **Kumar, M.**, Singh, J. and Baranwal, V.K. (2015). Molecular Detection and Characterization of Citrus Yellow Mosaic Virus Associated with Acid Lime (*Citrus aurantifolia*). ***Journal of Pure and Applied Microbiology***,

	9(2): 1025-1032 ➢ Kumar, A., Chaudhary, S., Sagar, S., Kumar, V. and **Kumar, M.** (2016). Assessment of genetic diversity among chickpea (*Cicer arietinum* L.) genotypes using EST-SSR markers and SDS-PAGE. ***Research Journal of Biotechnology*** 11(**4**): 48-57 ➢ Achala Bakshi, Vinay Kumar, Sushma Sagar, Sorabh Chaudhary, Rajendra Kumar and **Mukesh Kumar** (2016). Molecular characterization of chickpea (*Cicer arietinum* L.) genotypes using Sequence Tagged Microsatellite site (STMS) markers. ***Journal of Applied and Natural Science*** **8** (2):1068-1074 ➢ Amit, **Mukesh Kumar**, Vaishali, R.S Sengar, Rajendra Singh, S.K Singh (2016). Isolation and characterization of protease inhibitor genes from potato (*Solanum Tuberosum* L.). ***International Journal of Applied Sciences.*****3**: 96-111 ➢ Anurag Mishra, Pushpendra Kumar, Rakesh Singh Sengar, Manoj Kumar Yadav, **Mukesh Kumar**, Pooran Chandand Rajat Chaudhary (2017). Assessment of quality based diversity by using morphological and molecular approaches of selected rice (*Oryza Sativa* L.) varieties. ***Prog. Agric.*** 17(1): 52-64 ➢ Rajat Chaudhary, **Mukesh Kumar**, R.S. Sengar, Pushpendra Kumar, S.K. Singh and Yogesh Kumar (2017). Effect of salt stress on ion accumulation in chickpea (*Cicer arietinum* L.). ***Prog. Agric***. 17(1): 97-101 ➢ Yogesh Kumar, Sandeep Dubey, Ashok Kumar, B.P Dhyani, UP Shani, Adesh Singh, Ashish Dewedi, Ravindra Kumar, **Mukesh Kumar** and SP Singh and Ashok Yadav (2017). Site specific nitrogen management and nutrient removal by basmati rice and physico- chemical properties of soil. ***Journal of Plant Development Sciences*** **9**(2): 85-91 ➢ Amit, **Mukesh Kumar**, Vashali, R.S. Sengar, Rajendra Singh and S.K. Singh (2017). Functional analysis and characterization of wound responsive genes from potato (*Solanum tuberosum* L.*). **Vegetos- An International Journal of Plant Research*** 30 (Sp.1) 68-73 ➢ Sonam Arya, Vaishali, Pooran Chand, R.S.Sengar, B. Singh, **Mukesh Kumar**, Sandeep Kumar, Naresh Pratap Singh, Aastha, Lokesh Kumar (2017).Morphological characterization of tomato (*Solanum lycopersicon*) germplasm.***Prog. Agric.*** **18** (1): 113-118 ➢ Sorabh Chaudhary, **Mukesh Kumar**, R.S. Sengar, Pooran Chand, Prashant Mishra and Akash Tomar (2017). Effect of nutrient status, temperature and phonmycelial growth, sclerotial production and germination of *Rhizoctonia solani* isolated from paddy fields**. Prog. Agric. 18** (1): 82-91 ➢ Sen, R., Singh, S.K., Chand, P., Kerkhi, S. A., Singh, G. and **Kumar, M. (2018).**

	Studies on combining ability in forage sorghum for yield and quality parameters. *Journal of Pharmacognosy and Phytochemistry*.**7**(4): 2182-2188 ➢ Sirohi, U., **Kumar, M.,** Singh, S.K., Chauhan, P., Kumar, R. and Chand, P.(2018). Studies on combining variability, heritability, genetic advance and character association in tuberose (*Polianthes tuberosum* L.) genotypes. ***Hortiflora Research Spectrum***, **7**(2); 109-114 ➢ Rana, M., Kumar, Chand, P., Singh, S. K. and **Kumar, M.** (2019).Identification of promising hybrids through exploitation of heterosis in chickpea (*Cicer arietinum* L.).***Journal of Pharmacognosy and Phytochemistry*.SP** (2): 1031-1035 ➢ Chaudhary, M., Sengar, R. S., Vaishali, Yadav, M. K., **Kumar, M.** and Kumar, P.(2019). Synthesis and characterization of graphene oxide. ***Prog. Agric.*** 19(1):158-160 ➢ Khyati Lehari, **Mukesh Kumar**, Vishakha Burman, Ashtha, Vaishali, Vipin Kumar, Pooran Chand and Rajendra Singh (2019). Morphological, Physiological and Biochemical analysis of Wheat genotypes under draught stress.***Journal of Pharmacognosy and Phytochemistry*SP** (2): 1026-1030 ➢ Khyati Lehari, **Mukesh Kumar**, Vishakha Burman, Ashtha, Vaishali, Vipin Kumar, Pooran Chand and Rajendra Singh (2019). Morphological, Physiological and Biochemical analysis of Wheat genotypes under draught stress.***Journal of Pharmacognosy and Phytochemistry*SP** (2): 1026-1030 ➢ Kumar, A., Sharma, S., Rai, N.L., Tomar, A., Kumar, P., Sengar, R.S., Singh, S.K., Vaishali, **Kumar, M.** and Yadav, M.K. (2019). Callus introduction and efficient plant regeneration in wheat (*Triticum aestivum* L.) through mature embryo culture**.** ***International Journal of Chemical Studies*, 7**(4): 1445-1450. ➢ Srivastava, M., Singh, S.K**.,** Chand, P., **Kumar, M.**, Kumar, M., Gangwar, L.K. and Dev, A. (2019). Studies on path analysis in forage sorghum (*Sorghum bicolour* L. Moench). ***Journal of Pharmacognosy and Phytochemistry,* 8**(5): 993-996. ➢ Dev, A., Singh, S.K., Chand, P., **Kumar, M.**, Kumar, M., Poonia, M. and Srivastava, M. (2019). Genetic variability, character association and path analysis in forage sorghum. ***Journal of Pharmacognosy and Phytochemistry,* 8**(5): 1135-1139. ➢ Chaudhary Sorabh, Sagar Shushma, **KumarMukesh**, Lal Mehi, Kumar Vinay and Tomar Akash (2020). Molecular cloning, characterization and semi quantitative expression of endochitinase gene from the mycoparasitic isolate of *Trichoderma harzianium.* ***ResearchJournal of Biotechnology.* 15**(4): 40-56.

	➢ Shende T., Sengar R. S., **Kumar M.,** Gupta S., Singh G. and Singh S.K. (2020). Evaluation of yield and yield related traits of chickpea (*Cicer arietinum* L.) Genotypes under water stress condition. *Int.J. Curr. Microbial. App.Sci*. 9(12):1960-1979. ➢ Kumar J., **Kumar M.,** Tomar A., Vaishali, Kumar P. and Chand P.(2021). Morphological and molecular characterization of *Trichoderma* spp. from rhizosphere soil and their antagonistic activity against *Fusarium* spp. *International Journal of plant & Soil Science*. 23(19):100-112. ➢ Jaygendra Kumar, Mukesh Kumar, Akash Tomar, Vaishali, Pushpendra Kumar and Puran Chand (2021). Morphological and molecular characterization of *Trichoderma* spp. from rhizosphere soil and their antagonistic activity against *Fusarium sp. International Journal of Plant & Soil Science* 33(19): 100-112 ➢ Deepika Chandra, **Mukesh Kumar** (2022). Evaluation of physicochemical and functional properties of composite flours blended with different ratios of moringa leaves powder. *The Pharma Innovation Journal* 11(06): 2024-2028 ➢ Yogesh Kumar, **Mukesh Kumar**, S.P.Singh, R.K.Naresh, Subhash Chandra, M. Sharath Chandra (2022). Impact of enriched biocompost application in integration with chemical fertilizers on soil fertility and productivity of rice crop in rice-wheat system *Agricultural Mechanization in Asia* 53 (06): 8421-8431 ➢ Pooran Chand, **Mukesh Kumar** (2022). Studies on character association and path analysis in forage sorghum. *The Pharma Innovation Journal* 11(06): 2024-2028 ➢ Vishwajeet Yadav, **Mukesh Kumar**, R.S. Sengar, Pushpendra Kumar, M.K. Yadav and Vyankatesh Dhanraj Bagul (2022). Isolation, Molecular and In-silico characterization of Trichoderma spp. from Rhizospheric Soil Sample. *Biological Forum – An International Journal* 14(4): 648-652
Review Paper	**04**
	➢ Chaudhary, S., Sagar, S., Tomar, A., Sanger, R.S. and **Kumar, M.** (2016). Banded leaf and sheath blight: a menacing disease of maize (*Zea mays* L.) and its management. ***Journal of Applied and Natural Science.*8**(3): 1720-1730 ➢ Chaudhary, Sorabh, Sagar, Sushma., **Kumar, Mukesh** and Tomar, Akash (2016). The Use of Enzymes in Food Processing- An Overview. ***South Asian Journal Food Technol., Environ.* 1**(3): 190-210 ➢ Chaudhary, S., Sagar, S., Tomar, A., Sanger, R.S. and **Kumar, M.** (2016). Banded leaf and sheath blight: a menacing disease of maize (*Zea mays* L.) and its

	management. ***Applied and Natural Science*** 8(3): 1720-1730 ➢ Khyati Lehari, **Mukesh Kumar**, Vishakha Burman, and Aastha (2018). Wheat performs in Heat stress condition: A Review. *Journal of Emerging Technologies and Innovative Research*.**5** (8): 1065-1072

(Mukesh Kumar)