



College of Biotechnology
DIVISION OF MICROBIAL & ENVIRONMENTAL BIOTECHNOLOGY
Sardar Vallabhbhai Patel University of Agriculture & Technology,
Meerut-250110

Dr. Rekha Dixit
Professor



ACADEMIC PROFILE

- Ph.D. (Biochemistry 1999) Lucknow University, Lucknow.
- M.Sc. (Biochemistry 1989), Lucknow University, Lucknow
- B.Sc. (Zoology, Botany & Chemistry 1987), Lucknow University, Lucknow.

RESEARCH PUBLICATIONS

1. The Tomato Genome Consortium (2012). The tomato genome sequence provides insights into fleshy fruit evolution. **Nature** 485 (7400): 635-641.
2. Usha, S., Jyothi, M.N., Sharadamma, N., Dixit, Rekha, Devaraj, V.R., Nagesh babu, R., (2015). Identification of microRNAs and their targets in Finger millet by high throughput sequencing, **Gene** (574)210-216,
3. Usha S, Jyothi M N, Suchithra B, Rekha Dixit, Rai D V, Nageshbabu R (2017) Computational identification of micro RNAs and their targets from Finger millet (*Eleusine coracana*), **Interdisciplinary Sciences: Computational Life Sciences** pp1-8.
4. Lukas A. Mueller, René Klein Lankhorst, Steven D. Tanksley, James J. Giovannoni,Rekha Dixit, Archana Singh, Sumera Praveen, Vivek Dalal, Mahavir Yadav, Irfan Ahmad Ghazi, Kishor Gaikwad, Tilak Raj Sharma, Trilochan Mohapatra, Nagendra Kumar Singh et al (2009): A Snapshot of the Emerging Tomato Genome Sequence **The Plant Genome** 2: 78-92.
5. Dixit, R, Bhargava, A, Dalal, V , Plaha, P, Singh, NK and Sharma, TR. (2009) Accumulation of Defense Response-related and Unique expressed sequence tags during the incompatible interaction in *Oryza sativa*-*Magnaporthe oryzae* Pathosystem (p). **Journal of Phytopathology**. 157(7): 483-489.
6. Singh NK, V Dalal, K Batra, BK Singh, G Chitra, A Singh, IA Ghazi, M Yadav, A Pandit, R Dixit, PK Singh, H Singh, KR Koundal, K Gaikwad, T Mohapatra, TR Sharma (2007): Single copy genes define a conserved order between rice and wheat for understanding the differences caused by duplication, deletion and transposition of genes. **Functional. & Integrative Genomics**. 7:17-35
of rice chromosomes 11 and 12, rich in disease resistance genes and recent gene duplications. **BMC Biology**. 3:20.
8. Dixit Rekha, Trivedi, P.K., Nath P. and Sane, P.V. (2002): Characterization of petB and petD genes of psbB operon from chloroplast of *Populus deltoides*. **Plant Molecular Biology Reporter**. 20 (4), 357-368
9. Dixit Rekha, Trivedi, P.K., Nath P. and Sane, P.V. (1999): Organization and Post-transcriptional processing of the psbB operon from chloroplasts of *Populus deltoides*. **Current Genetics**. 36: 165-172.
10. Prajapati, M, Kumar P, Singh RP, Shankar R, Singh J, Bharti M, Singh R, Verma H, Gangwar LK, Gaurav SS, Kapoor N, Prakash S, Dixit R (2024) .De novo transcriptome Assembly, annotation and SSR mining data of *Hellula undalis* (Lepidoptera: Pyralidae), The cabbage webworm. **Journal of Genetic Engineering and Biotechnology**.22(2024) 100393
11. Malyaj R. Prajapati, Jitender Singh, Pankaj Kumar and Rekha Dixit (2023) De novo transcriptome analysis and identification of defensive genes in garlic (*Allium sativum* L.) using high-throughput sequencing. **Journal of**

Genetic Engineering and Biotechnology 21, Article number: 56