



**Mr. Prashant Yadav**  
Scientist (Biotechnology)  
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Date of Birth	25/07/1989
Educational Qualification	M.Sc. (Biotechnology), NDUAT, Faizabad, (UP)
Joining Date in ICAR	01/07/2014
Joining Date in DRMR	13/10/2014
Discipline/Specialization	Agricultural Biotechnology
Research Experience	4 Years
Training/Advance exposure in the area of work	Obtained 21 days training on “Recent advances in statistical genetics and genomics” at IASRI, New Delhi

**Contribution to Scientific Advancement:**

- Characterization of new begomovirus in French Bean
- First report of groundnut bud necrosis virus in wild species of Vigna
- Assessment of genetic diversity in bottle gourd

**Future Planning of Research:**

- Elucidation of molecular basis of Alternaria blight tolerance in Brassica

**Fellowships/Awards/Recognition:**

- Young Scientist Award (2017) by Society for Agriculture Innovation and Development, Ranchi
- Young Scientist award (2017) by Astha Foundation, Meerut, UP
- CSIR-JRF (AIR-13) (2012)
- DST-INSPIRE Fellowship (2012)
- ICAR-SRF (AIR-7) (2012)
- ICAR-NET (2012)
- Gold Medal during M.Sc. (2011)
- CSIR-NET (2011)
- GATE (2011)

## Publications (Best 20):

- **Prashant Yadav**, Era Vaidya, Reema Rani, Navneet Kumar Yadav, B. K. Singh, P. K. Rai, and Dhiraj Singh. "Recent Perspective of Next Generation Sequencing: Applications in Molecular Plant Biology and Crop Improvement." *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*: 1-15
- **Prashant Yadav**, H. S. Meena, P. D. Meena, Arun Kumar, Riteka Gupta, S. Jambhulkar, Reema Rani, and Dhiraj Singh. "Determination of LD50 of ethyl methanesulfonate (EMS) for induction of mutations in rapeseed-mustard." *Journal of Oilseed Brassica* 7, no. 1 (2016): 77-82.
- Ali, Sajad, Zahoor A. Mir, Anshika Tyagi, Hailay Mehari, Rajendra P. Meena, Javaid A. Bhat, **Prashant Yadav**, Pradeep Papalou, Sandhya Rawat, and Anita Grover (2017). "Overexpression of NPR1 in Brassica juncea Confers Broad Spectrum Resistance to Fungal Pathogens." *Frontiers in plant science*, 8, 1693
- Rani, Reema, **Prashant Yadav**, Kalyani M. Barbadikar, Nikita Baliyan, Era Vaidya Malhotra, Binay Kumar Singh, Arun Kumar, and Dhiraj Singh. "CRISPR/Cas9: a promising way to exploit genetic variation in plants." *Biotechnology letters* 38, no. 12 (2016): 1991-2006.
- Ali, Sajad, Zahoor Ahmad Mir, Javaid Akhter Bhat, Anshika Tyagi, N. Chandrashekar, **Prashant Yadav**, Sandhya Rawat, Mazher Sultana, and Anita Grover. "Isolation and characterization of systemic acquired resistance marker gene PR1 and its promoter from Brassica juncea." *3 Biotech* 8, no. 1 (2018): 10
- Anubhuti, S., K. Ashok, K. Arun, Meena HS, and **Y. Prashant**. "Thioglycosides and Cancer Prevention. *Arc Org Inorg Chem Sci* 2 (4)-2018." AOICS. MS. ID 141.
- Srivastava, Deepti, Md Shamim, Mahesh Kumar, Anurag Mishra, Pramila Pandey, Deepak Kumar, **Prashant Yadav**, Mohammed Harrish Siddiqui, and Kapildeo Narayan Singh. "Current Status of Conventional and Molecular Interventions for Blast Resistance in Rice." *Rice Science* 24, no. 6 (2017): 299-321
- Anubhuti, Sharma, Ashok Sharma, **Prashant Yadav**, and Dhiraj Singh. "Isothiocyanates in Brassica: Potential Anti Cancer Agents." *Asian Pacific journal of cancer prevention: APJCP* 17, no. 9 (2016): 4507.
- Deepti Srivastava, N. A. Khan, Md Shamim, **Prashant Yadav**, Pramila Pandey, and K. N. Singh. "Assessment of the genetic diversity in bottle gourd (*Lagenaria siceraria* [Molina] Standl.) genotypes using SDS-PAGE and RAPD Markers." *National Academy Science Letters* 37, no. 2 (2014): 155-161.

- Naimuddin Kamaal, Mohammad Akram, Aditya Pratap, and **Prashant Yadav**. "Characterization of a new begomovirus and a beta satellite associated with the leaf curl disease of French bean in northern India." *Virus genes* 46, no. 1 (2013): 120-127.
- Binay K. Singh, Dwijesh C. Mishra, Sushma Yadav, Supriya Ambawat, Era Vaidya, Kishor U. Tribhuvan, Arun Kumar, Sujith Kumar, Sanjeev Kumar, K.K. Chaturvedi, Reema Rani, **Prashant Yadav** et al. "Identification, characterization, validation and cross-species amplification of genic-SSRs in Indian Mustard (*Brassica juncea*)." *Journal of Plant Biochemistry and Biotechnology* 25, no. 4 (2016): 410-420.
- Mohammad Akram, Aditya Pratap, Nupur Malviya, and **Prashant Yadav**. "First report of Groundnut bud necrosis virus infecting wild species of *Vigna*, based on NP gene sequence characteristics." *Phytopathologia Mediterranea* (2013): 532-540.
- **Prashant Yadav**, N. A. Khan, M. D. Shamim, Deepti Srivastava, and K. N. Singh. "Efficacy of jackfruit protease inhibitor and Bt protein against yellow and pink stem borers of rice." *Current Advances in Agricultural Sciences (An International Journal)* 4, no. 2 (2012): 152-155.

Membership of Professional Societies:

- Indian Society of Genetics and Plant Breeding, New Delhi
- Society for Plant Biochemistry and Biotechnology, New Delhi
- Society of Rapeseed-Mustard Research, Bharatpur, Rajasthan, India
- Society for Agriculture Innovation and Development, Ranchi (Jharkhand) India

**CONTACT US**

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