

Curriculum Vitae

Vimal Kumar Dubey (Ph.D.)

(Associate Professor)

Faculty of Agriculture

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Areas of specialization: Plant Molecular Biology, Plant Molecular Virology, Plant Transformation and Plant Functional Genomics.

Areas of Interest: Genome-Editing, Plant-Host interaction, RNA Interference and Plant Disease Resistance

Post-Doctoral activities (Abroad)

October 2018 to Feb 28, 2023

Project: Citrus R-genes overexpression and elucidation of its functions in citrus disease resistances

Supervisor: Prof. Nian Wang (University of Florida, USA)

Place: National Navel Orange Engineering Research Centre, Ganzhou, P.R. China.

May 2017 to April 2018

Project: **Transformation and genome editing of microalgae for value added compounds.**

Supervisor: Prof. EonSeon Jin

Place: Hanyang University, Republic of South Korea.

April, 2015 to March 31, 2017.

Project: RNA interference and elucidation of action mechanisms of lethal genes against the two-spotted spider mite and development of mite-resistant transgenic soybean.

Supervisor: Prof. Si Hyeock Lee

Place: Seoul National University, Republic of South Korea.

December 2012, to March 2013 (Visiting)

Project: Protein-RNA interactions in RNA virus particles

Place: Indiana University, USA

Post-Doctoral activities (India)

June 2013 to March 2015. Project: Biotic stresses on Rice.

Place: International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India

Supervisor: Dr. M.K Reddy

Sep 2011 to Dec 2012

Project: Third generation RNAi for engineering Tomato curl leaf virus (ToLCV) and Tospo (GBNV) resistance Tomato.

Place: International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India.

Supervisor: Prof (Dr) S.K. Mukherjee

Educational Qualifications

Ph.D. (Dec, 2010)

Thesis Title: Expression of *cucumber mosaic virus* (CMV) coat protein gene in *Gladiolus*/ Tobacco: Regeneration of CMV-CP mediated resistant transgenic *Gladiolus*/Tobacco plants.

Place: National Botanical Research Institute (NBRI-CSIR), Lucknow

Master of Science (2003)

M. J. P. Rohilkhand University, Bareilly (India).

Bachelor of Science (1999)

DDU University, Gorakhpur

Awards and fellowships

- 1) Y.S. Murty-Medal (2018) for Young Scientist by Indian Botanical Society, India
- 2) BK21 Plus Post-Doctoral Research Scientist, Republic of South Korea.
- 3) Best oral presentation award, International symposium, Jeju, South Korea.
- 4) Visiting Scientist, Indiana University, United States of America.
- 5) ICAR- ASRB National Eligibility Test (NET, 2010), New Delhi, India.
- 6) CSIR- UGC, Junior and Senior Research fellowships.
- 7) CSIR- UGC, National Eligibility Test (NET, 2003), New Delhi, India.
- 8) Gold medalist (M.Sc. Plant Science), 2001-2003, M. J. P. Rohilkhand University, Bareilly, India.

Invited lectures

- 1) Indian Science congress (2017), Sri Venkateshwara University, Tirupati, India
- 2) Korean Society of Applied Entomology (2016), Jeju, South Korea
- 3) Indian Botanical Society Annual meeting (2013), D.D.U. Gorakhpur University, India.

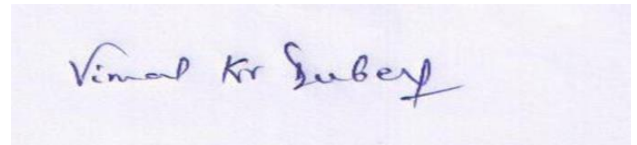
Professional affiliations

- 1) Life member Indian Botanical Society
 - 2) Indian Virological Society
 - 3) Indian Phytopathological Society
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Publications

1. Industrial applications of fungal lipases: A Review (2023) Ashish Kumar, **Vimal Kumar Dubey**, Alok Srivastava, Sanjay Kumar Garg, Vijay Pal Singh, Pankaj Kumar Arora. **Frontiers in Microbiology** **Frontiers in Microbiology** **14**, 1142536.
2. Neha Shah, **Vimal K Dubey**, Sampark Thakkar, Hiren Doshi (2021). Bioaccumulation of arsenic (V) from wastewater by live and dead *Spirogyra* sp. *Journal of Basic Microbiology* **Journal of Basic Microbiology** **62** (3-4), 489-497
3. Kottakota Chandrasekhar, Bhubaneswar Pradhan, Rajib Roychowdhury, **Vimal Kumar Dubey** (2020). Improvement of Wheat (*Triticum* spp.) Through Genetic Manipulation (2020). In *Genetically Modified Crops* pp 33-66. Springer, Singapore.
4. **Vimal Kumar Dubey**, Ung Gyu Lee, Deok Ho Kwon, Si Hyeock Lee. (2018). Agroinfiltration- based expression of hairpin RNA in soybean plants for RNA interference against *Tetranychus urticae*. **Pesticide Biochemistry and Physiology**, **142**: 53-58. <https://doi.org/10.1016/j.pestbp.2017.01.004>

5. **Vimal Kumar Dubey**, Kottakota Chandrasekhar, Alok Srivastava, Aminuddin, Vijai Pal Singh, Kartik Dhar, Pankaj Kumar Arora. (2015) Expression of coat protein gene of Cucumber mosaic virus (CMV- subgroup IA) Gladiolus isolate in *Nicotiana tabacum*. **Journal of Plant interaction**. **10(1)296-304**. <https://doi.org/10.1080/17429145.2015.1101496>
6. **V. K. Dubey**, Aminuddin, V. P. Singh (2010). Molecular characterization of *Cucumber mosaic virus* infecting Gladiolus revealing, its phylogeny distinct from Indian isolate and alike the Fny strain of CMV. **Virus Genes**, **41:126-134**. doi: 10.1007/s11262-010-0483-6.
7. **V. K. Dubey**, Aminuddin, V. P. Singh (2009). First report of *Bean yellow mosaic virus* (BYMV) in *Gladiolus* in India. **Journal of plant pathology**, **91:4-110**.
8. **V. K. Dubey**, Aminuddin, V. P. Singh (2008). First report of a subgroup IA *Cucumber mosaic virus* isolates from gladiolus in India; **Australasian Plant Disease Note**, **3: 35-37**. <https://doi.org/10.1071/DN08014>
9. **Dubey, V.K**, Aminuddin (2007). Inhibition of mosaic disease of Gladiolus caused by Bean yellow mosaic- and *Cucumber mosaic viruses* by virazole. **Scientia Horticulturae**, **114 (1): 54-58**.

A rectangular box containing a handwritten signature in blue ink that reads "Vimal Kr Dubey".

(Vimal Kumar Dubey)

References

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