

# DR. DEEPTI

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## OBJECTIVE

Highly motivated and innovative biotechnologist with specialization in agricultural biotechnology implemented with the techniques such as molecular biology, plant tissue culture, microbiology, plant pathology, and biochemistry. Expert in development and execution of molecular biology and plant pathology-based research methods. Passionate about learning new scientific skills. Enthusiastic team player adept at providing leadership while also learning from fellow team members. Experienced in managing multiple projects simultaneously. Effective communicator and teacher that can conceptualize complex biological concepts to audiences with varied expertise.

## EDUCATIONAL QUALIFICATION

QUALIFICATION	UNIVERSITY/BOARD	YEAR	MAJOR SUBJECTS	OGPA/PERCENTAGE	CLASS/DIVISION
Ph.d (Agricultural Biotechnology)	Rajendra Prasad Central Agricultural University, Pusa, Bihar	2021	Agricultural Biotechnology	8.23 OGPA	First
M.sc (Agricultural Biotechnology)	Rajendra Agricultural University, Pusa, Bihar	2013	Biotechnology, Molecular Biology, Microbiology	8.50 OGPA	First
B.sc Biotechnology	Sathyabama University, Chennai	2010	Biotechnology	85.30%	First
12 <sup>th</sup>	Sunshine prep./high school	2007	English, Physics, Chemistry, Biology and Physical Education	70.2%	First
10 <sup>th</sup>	D.A.V.Public School	2005	English, Maths, Science, Sanskrit, Social Sciences	67%	First

**P.hD Thesis Title:** Assessment of Spot Blotch Resistance in Wheat Genotypes through Tissue Culture and Molecular Marker.

**M.Sc thesis title:** Characterization of wheat genotypes for resistance against identified isolates of blotch causing fungal species.

## EXPERIENCE

- Working as an Assistant Professor (Guest Faculty) in the Department of Botany – SRKG College, Sitamarhi, Bihar University from 25th January 2024 till present.

## TRAININGS/WORKSHOP/SEMINAR

- Participated in Summer research programme in Jawaharlal Nehru University (School of Life Sciences), New Delhi, 2011 under Dr. Supriyo Chakraborty and the research topic was "Detection of Chilli leaf curl virus in *Nicotiana benthamiana*".
- Worked for two months in NRCPB, Indian agricultural research institute, New Delhi in Summer Research Fellowship programme organized by Indian Academy of sciences, 2012 and worked on "UNDERSTANDING THE SUB-CELLULAR LOCALIZATION OF AN ORTHOLOGUE OF RICE BLAST RESISTANCE GENE Pi54" under the supervision of Dr. Tilak Raj Sharma.
- Nucleic acid purification, Southern Blotting, SDS- PAGE, Plant tissue culture, microbial culture, Shot- gun method.
- 15 Days workshop on SPSS Software.
- Participated in National conference on Biotechnological Intervention for conservation and sustainable utilization of Bioresources sponsored by DST & CSIR held at Sathyabama university from 7-9<sup>th</sup> August,2008.
- Participation in the symposium on "Good laboratory Practices & Compliance in Biotechnology" organized by Indian Institute of Technology Madras (IITM) & CSIR held during November 3-5<sup>th</sup>, 2009.
- Attended international webinar on "Omics in Agriculture" organized during 07-09<sup>th</sup> October 2020 by College of Basic Sciences & Humanities, RPCAU, PUSA, BIHAR.
- Participated in Webinar on "Tackling Complex Traits In Plants - A Multiomics Approach "by Bionivid Technologies Pvt. Ltd. on 19<sup>th</sup> September, 2020.

## ACHIEVEMENTS

- Got INSPIRE fellowship of Department of Science and Technology for PhD programme.
- Topper in M.Sc Agricultural Biotechnology.
- Second topper in B.Sc Biotechnology.
- Winner in Inter-college Badminton tournament, 2011.
- Second place in the Intra- Department Quiz competition organized by the Department of Biotechnology, Sathyabama University, Chennai on 18<sup>th</sup> March 2008.

## PUBLICATIONS

Deepti, ., Rani, S., Anjani, K., Kumar, R., & Sharma, V. K. (2020). In-vitro Screening for Disease Resistance in Wheat Genotypes against *Bipolaris sorokiniana* Using Callus Culture Method. *Current*

*Journal of Applied Science and Technology*, 39(46), 82-87.

<https://doi.org/10.9734/cjast/2020/v39i4631178>

Swati Rani, Deepti, Kumari Anjani and Vinay Kumar Sharma. Effect of explant and phytohormone on in vitro regeneration of *Solanum indicum*, an important medicinal weed. *J Pharmacogn Phytochem* 2021;10(1):1070-1075. DOI: [10.22271/phyto.2021.v10.i1o.13478](https://doi.org/10.22271/phyto.2021.v10.i1o.13478)

Deepti and Rajeev Kumar. (2018). Morphological characterization of *Bipolaris sorokiniana* isolates, isolated from different wheat genotypes. *Journal of Biotechnology and Crop Science* 7(11): 37-42. [http://www.jbcs.net.in/Uploads/102\\_PDFAbstract.pdf](http://www.jbcs.net.in/Uploads/102_PDFAbstract.pdf)

Smriti, Deepti, Tirthartha Chattopadhyay, Satyendra, Suresh Prasad Singh and Mankesh Kumar\* (2016). CHARACTERIZATION AND PURITY ANALYSIS OF A FEW AROMATIC INDIGENOUS RICE GENOTYPES OF BIHAR USING AN AROMA-SPECIFIC MARKER . *International Journal of Science, Environment and Technology*, Vol. 5, No 3, 1167 – 1176. [http://www.jbcs.net.in/Uploads/102\\_PDFAbstract.pdf](http://www.jbcs.net.in/Uploads/102_PDFAbstract.pdf)

## **REFERENCES**

<b>Prof. Dr. V.K.Sharma</b>	<b>Associate Prof. Dr. Rajeev Kumar,</b>
HOD, Department of AB&MB,	Department of AB&MB,
Rajendra Prasad Central Agricultural	Rajendra Prasad Central Agricultural
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