

## Dr Sandip Debnath

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## Expertise

#### **Plant Sciences**

Experienced Assistant Professor with a demonstrated history of working in the higher education sector. Skilled in Plant Breeding and Genetics. Strong education professional with a Doctor of Philosophy (Ph.D.) in Genetics from Bidhan Chandra Krishi Viswavidyalaya. Besides, teaching, presently working with crop breeding in Visva-Bharati.

## Work experience

1. Visva-Bharati University 2015 — Present

Assistant Professor (Grade-II)
Birbhum

2. Uttar Banga Krishi Viswavidyalaya 2014 — 2015

Assistant Professor Coochbehar

### Education

1. Ph.D - 2013

Bidhan Chandra Krishi Viswa Vidyalaya

### Honours and Awards

DAE Young Scientist Research Award (DAE-YSRA) - 2020

Department of Atomic Energy, Govt of India

2. INSPIRE Fellowship - 2011

DST, Govt. of INDIA

## Research Project

Physical mutation to improve the P acquisition along with nodulation efficiency in Lentil

Role: Principal Investigator

Year 2020, Amount Rupees 2489100.00

IFAD-ICARDA project in South Asia on "Enhancing food and nutritional security and improved livelihoods through intensification of rice-fallow system with pulse crops"

Role: Co-PI

Year 2016, Amount Not Applicable

### **Publication**

1. Multichannel CNN Model for Biomedical Entity Reorganization

Ajay Kumar Singh, Ihtiram Raza Khan, Shakir Khan, Kumud Pant, Sandip Debnath, Shahajan Miah BioMed Research International, Volume 2022, Year 2022, Pages

 Elucidation of Nature of Gene Action and Estimation of Combining Ability Effects for Fruit Yield Improvement and Yield Attributing Traits in Brinjal Landraces

Neha Rajan, Sandip Debnath, Avijit kr. Dutta, Brijesh Pandey, Ajeet Kr. Singh, Ravindra Kumar Singh, Anjani Kumar Singh, Betty Nokobi Dugbakie Journal of Food Quality, Volume 2022, Year 2022, Pages 8471202

3. Contextualization of Trait Nexus and Gene Action for Quantitative and Qualitative Characteristics in Indian Mustard

Journal of Food Quality, Year 2022

#### Conservation of Biodiversity-Mitigating environmental challenges and threats

Nihar Ranjan Chakraborty; Sandip Debnath; Neha Rajan; Brijesh Pandey Conservation of Biodiversity-Mitigating environmental challenges and threats, Volume , Year 2022, Pages

# 5. Application of New Technology of Intelligent Robot Plant Protection in Ecological Agriculture

Zhe An, Chunhang Wang, Bincy Raj, Sathyapriya Eswaran, R. Raffik, Sandip Debnath, Saima Ahmed Rahin

Journal of Food Quality, Volume 2022, Year 2022, Pages

#### Recent Advancement in Postharvest Loss Mitigation and Quality Management of Fruits and Vegetables Using Machine Learning Frameworks

Journal of Food Quality, Year 2022

7. Study on character association in Lens culinaris medik

Satpathy S.;Debnath S.;Mishra A. Electronic Journal of Plant Breeding, Volume 12, Year 2021, Pages 58-65

8. Genetic variability, character association and divergence studies in sunflower (Helianthus annuus L.) for improvement in oil yield

Shyam Sundar Lakshman ., Nihar Ranjan Chakraborty ., Sandip Debnath ., Achal Kant ., African Journal of Biological Sciences, Volume 3(1), Year 2021, Pages 129-145

9. Conservation of diversity of folk rice in West Bengal

Debnath, Sandip and Chakraborty Nihar Ranjan Food and Scientific Reports, Volume , Year 2020, Pages

10. Characterization of indigenous brinjal (Solanum melongena L.) lines using morphological traits under Jharkhand condition

Neha Rajan .,

Annals of Plant and Soil Research, Volume 22, Year 2020, Pages 425--431

11. CHARACTER ASSOCIATION AND PATH ANALYSIS FOR SEED YIELD AND ITS COMPONENTS IN GRASS PEA (Lathyrus sativus L.)

The Bioscan, Year 2020

12. In silico analysis of functional linkage among arsenic induced MATE genes in rice

Seth S.;Debnath S.;Chakraborty N.R. Biotechnology Reports, Volume 26, Year 2019

13. Recent Researches on Molecular Breeding for Spice Crop Improvement

Debnath S.

Indian Spices, Volume, Year 2018, Pages 317-339

#### 14. Molecular Markers in Forest Seeds

Sandip Debnath

Forest Seed Science and Management, Volume, Year 2017, Pages

## 15. Whole Genome Transcriptional Analysis of Rice Grown in Arsenic Contaminated Field Conditions

DEBNATH, SANDIP and BHATTACHARYYA, SOMNATH and SARKAR, SUTANU and CHATTERJEE, MITALI Trends in Biosciences, Volume 10, Year 2017, Pages 850--855

#### 16. Expression of Multidrug and Toxic Compound Extrusion (MATE) Genes in Response to the Presence of Arsenic in Irrigation Water and Soil in Rice (Oryza sativa L.)

S. Debnath ., S. Bhattacharyya ., S. Sarkar ., M. Chatterjee ., International Journal of Bio-resource and Stress Management, Volume 7, Year 2016, Pages 88--91

### 17. Potential of commercial vegetable hybrid seed production by farmers

Debnath, S and Roy, S and Chakraborty, N R and Paul, A In: Family Farming: Challenges and Opportunities, Volume , Year 2016, Pages 93--95

# 18. Impact of different levels of cutting and dates of sowing on growth of coriander under open and protected cultivation

GUHA, S and DEBNATH, S and SHARANGI AB The Bioscan, Volume 11(3), Year 2016, Pages 1615-1620

### 19. Breeding Methods for Quality Improvement in Horticultural Crops

Debnath S.; Guha S.

Value Addition of Horticultural Crops: Recent Trends and Future Directions, Volume , Year 2015, Pages 201-211

### 20. Genomic profile of the plants with pharmaceutical value

Saikat Gantait ., Sandip Debnath ., Md. Nasim Ali ., 3 Biotech, Volume 4, Year 2014, Pages 563--578

# 21. Phenology and green leaf yield of coriander at different sowing dates and harvesting times

Guha S.; Sharangi A.B.; Debnath S. Journal of Food, Agriculture and Environment, Volume 12, Year 2014, Pages 251-254

### 22. Genetically modified crops in agriculture: an overview.

Debnath, S and Sadhukhan, R and others SATSA Mukhaptra Annual Technical Issue, Volume 18, Year 2014, Pages 117--125

# 23. Effect of different sowing times and cutting management on phenology and yield of off season coriander under protected cultivation.

Guha, S and Sharangi, AB and Debnath, S and others Trends in Horticultural Research, Volume 3, Year 2013, Pages 27--32

### 24. Genotypic difference in temporal variation of arsenic accumulation and

### expression of silicon efflux transporter (LSi2) gene in the field grown rice

Chatterjee M.; Sarkar S.; Debnath S.; Mukherjee A.; Chakrabarti A.; Bhattacharyya S. Indian Journal of Genetics and Plant Breeding, Volume 73, Year 2013, Pages 94-97

25. Pathotype characterization of Xanthomonas oryzae pv oryzae isolates of West Bengal and evaluation of resistance genes of bacterial blight of rice (Oryza sativa L.)

Debnath, S and Satya, P and Saha, BC Journal of Crop and Weed, Volume 9, Year 2013, Pages 198--200

26. Changes in Cultivation Pattern of Wheat and Rice as Influenced by the Key Innovations in Research, Policy and Institution Initiatives

Sarkar Sutanu, Debnath Sandip, Sharangi. A, B Science International, Volume 1, Year 2013, Pages

27. Effect of Different Sowing Times and Cutting Management on Phenology and Yield of off Season Coriander under Protected Cultivation

Trends in Horticultural Research, Year 2013

28. Differential response of different stress related biochemicals and reactive oxygen species scavenging enzymes in rice-Xanthomonas interaction

Debnath S.;Satya P.;Saha B. Research on Crops, Volume 13, Year 2012, Pages 388-391

29. Genetics and physiology of elevated arsenic in grain and straw of rice

Bhattacharyya, Somnath and Chatterjee, Mitali and Debnath, Sandip and Sarkar, Sutanu and Mukherjee Ariiit

Arsenic in Food Chain: Cause, Effect and Mitigation, Volume , Year 2012, Pages 117-130

30. Genetic analysis of arsenic accumulation in grain and straw of rice using recombinant inbred lines

Chatterjee, M and Sarkar, S and Debnath, S and Ghosh, S and Bhattacharyya, S and Sanyal, SK ORYZA-An International Journal on Rice, Volume 48, Year 2011, Pages 270--273

31. Hybrid rice: a two way solution for food security and economic improvement.

Satya, P and Debnath, S International Journal of Agriculture Environment \& Biotechnology, Volume 2, Year 2009, Pages 489--491

32. Screening for phosphorus(p) tolerance and validation of Pup-1 linked markers in indica rice

Sarkar S.;Yelne R.;Chatterjee M.;Das P.;Debnath S.;Chakraborty A.;Mandal N.;Bhattacharya K.;Bhattacharyya S.

The Indian Journal of Genetics and Plant Breeding, Volume 71, Year 0, Pages 209-213

33. INFLUENCE OF GROWING CONDITIONS ON YIELD AND ESSENTIAL OIL OF CORIANDER DURING YEAR-ROUND CULTIVATION

Sagarika Guha, Sandip Debnath, A. B. Sharangi International Journal of Agriculture Sciences, Volume 8 (5), Year 0, Pages 1021-1026.

34.	Pathotype characterization of Xanthomonas oryzae pv oryzae isolates of West Bengal and evaluation of resistance genes of bacterial blight of rice (Oryza sativa L.).
	Journal of Crop and Weed, Year 0
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