

Bio-data

Ms. Harshitha B S , M.Sc. (Ag).

Scientist-B CSRTI, Berhampore

Name : Ms. HARSHITHA B S

Discipline : Genetics and Plant Breeding

Institution : CSRTI Berhampore

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Nationality : Indian

Gender (M/F/T) : Female

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India

Research gate- <https://www.researchgate.net/profile/Harshitha-B-S-2>

Educational Qualification:

Degree	Board/University	Year	Grade
Ph.D. in Genetics and Plant Breeding (Pursuing)	ICAR- Indian Agricultural Research Institute New Delhi, 110012	2020-	-
M.Sc. in Genetics and Plant Breeding	ICAR- Indian Agricultural Research Institute New Delhi, 110012	2018-2020	8.54
B.Sc. in Horticulture	University of Horticultural Sciences, Bagalkote, India, 587102	2014-2018	8.88
XII	Department of Pre-University Education, Government of Karnataka	2012-2014	90.83%
X	Karnataka Secondary Education Examination Board, Karnataka	2012	84.80%

Work experience

Position held	Name of the institution	From	To
Scientist-B	CSRTI, Berhampore	November, 2023	Till date

Awards and Achievements:

- University Merit Scholarship for Undergraduate students, 2014-2018
- **Best Outgoing Student Award** during Under Graduation Program, 2017-18
- Qualified ICAR-JRF 2018 (Plant Sciences)

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- Qualified ICAR-SRF 2020 (Genetics and Plant Breeding)
- Qualified CSIR-JRF June 2021(Life Sciences)
- Qualified ICAR-NET 2021 (Genetics and Plant Breeding)
- Qualified GATE 2022 (Life Sciences)
- **Best M.Sc. Thesis Award-2022** on the occasion of National Seminar on “Enhance the Dubbling Farmers Income, Series-1 on 26th November 2022 at Agriculture Trainings and Research Institute, Jhansi (U.P).
- **Best Poster presentation award** in the Symposium **TENDING MENDEL’S GARDEN FOR A PERPETUAL AND BOUNTIFUL HARVEST** (2022) on “Genetic analysis and molecular mapping for elongated uppermost internode in rice.
- **Best Oral presentation award** on Morphological and Molecular characterization of uppermost internode length in rice germplasm during National Conference held in Hyderabad, India from April 15th -16th 2022, Organized by Society for Agriculture Innovation and Development, Ranchi, India.
- **Oral presentation award** on “Sugarcane omics: An Update on the current status of crop improvement” during National seminar on “Research imperatives for sustaining sugarcane, sugar and ethanol production” held at ICAR-Sugarcane breeding institute , Coimbatore, Tamilunadu, India on August 25th 2023, Organized by Society for Agriculture Innovation and Development, Ranchi, India.

M.Sc. Thesis:

“Genetic analysis of uppermost internode length in rice (*Oryza sativa*)”

(Guide- Dr. Prolay Kumar Bhowmick, ICAR-IAR, New Delhi)

Ph.D. Thesis:

“Mapping genomic region(s) governing uppermost internode length in rice ((*Oryza sativa*)”

(Guide-Dr. Prolay Kumar Bhowmick, ICAR-IARI, New Delhi)

Trainings and Workshops:

- Workshop on **“Use of Reference Manager Tools and Softwares in Research Article Writing”** at University of Agricultural science, Raichur
- Workshop on **“Millets Mahostav”** jointly organized by just agriculture education group and SKUAST, Kashmir
- Workshop on **“Fluorescence Microscopy”** jointly organized by ICAR-IARI, New Delhi and Incise Infotech private limited, New Delhi
- International Workshop on **“Basics to advanced Bioinformatics and Genomics data analysis”** organized by Nextgenhelper, New Delhi
- Training Programme on **“Statistics and Informatics in Experimental Data Management and Analysis”** at ICAR-IASRI, New Delhi-110012
- Training Programme on **“Genome-wide association studies and its application in Agriculture”** at ICAR-IASRI, New Delhi-110012

Conferences and Symposium:

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- 1st National Genetics Congress on Genetics for Sustainable Food, Health and Nutritional Security, New Delhi-110012
- Tending Mendel's Garden for a Perpetual and Bountiful Harvest Symposium (19-21 July) at Division of Genetics and Plant Breeding, ICAR-IARI, New Delhi-110012
- National Conferences on Plant-Based Food: Capturing Avenues to Intensify the Food Processing Industry at Hotel Le-Meridien, New Delhi

Publications:

Harshitha BS, Karthik Kumar Manjunath, Bhargavi HA. Mysterious microproteins as a novel tool for crop improvement: A review. *Pharma Innovation* 2023;12(1):2317-2322. DOI: [10.22271/tpi.2023.v12.i1z.18331](https://doi.org/10.22271/tpi.2023.v12.i1z.18331)

Karthik Kumar Manjunath, **Harshitha BS**, Anusha NM, Bhargavi HA. Breeding for mulberry improvement: A review. *Pharma Innovation* 2023;12(2):477-481. DOI: [10.22271/tpi.2023.v12.i2f.18461](https://doi.org/10.22271/tpi.2023.v12.i2f.18461)

Archana, R., H. C. Lohithaswa, R. Pavan, Vikram Jeet Singh, Neethu Mohan, S. Nanda Kumar, Sonu and **Harshitha, B. S.** 2023. Estimation of Combining Ability for Yield, Yield Related Traits and Fusarium Stalk Rot in New Inbred Lines of Maize (*Zea mays* L.). *Int.J.Curr.Microbiol.App.Sci.*12(10):138-152. doi: <https://doi.org/10.20546/ijcmas.2023.1210.017>

Shekharappa Nandakumar, Vikram Jeet Singh, K.K.Vinod, S. Gopala Krishnan, Di Brijesh Kumar Dixit, Sonu, **B S Harshitha**, Shridhar Ragi, Ellur, Ranjith K Ellur, Haritha Bollinedi, Nagarajan M, Ashok K Singh, Prolay Kumar Bhowmick, "Genetic mapping for flag leaf shape in new plant type based recombinant inbred lines in Rice (*Oryza sativa* L.)" .IJGPB (2023). (Accepted)

Popular articles:

Harshitha, B.S, Bhargavi, H.A, Nandakumar, S, Ranebennur, H. and Nayan Deepak, G (2022). Genomic Selection: tool for Speedy Crop Improvement. *Food and Scientific Reports*,3(11): **42 - 44**

Harshitha, B.S, Bhargavi, H.A, Nandakumar, S, Ranebennur, H. and Nayan Deepak, G (2022). Biofortification: Raising our defenses against Malnutrition. *Food and Scientific Reports*,3(11): **53 - 56**

Harshitha, B.S*, Bhargavi, H.A and Chandrika Vadla. (2022). Achieving Climate Resilience through Genome Editing Technologies. *The Science World a Monthly E Magazine*, 2(11), 1862–1864. <https://doi.org/10.5281/zenodo.7348244>

Harshitha, B.S, Nandakumar, S, Bhargavi, H.A (2022) Genetics of Circadian Rhythm and role in plant development. *Just Agriculture*3(4):20

Abhishek E, Karthik Kumar M, **Harshitha B S**, Narayana Bhat Devate. (March 2023). Polyploid rice: new resources for future rice breeding. *The Science World a Monthly E Magazine*, 3(3), 327–333. <https://doi.org/10.5281/zenodo.7702040>

Bhargavi H.A, **Harshitha B.S**, Karthik Kumar M, Sonu. (March 2023). Genome-wide Haplotype Analysis: Its importance in crop improvement, *Agriculture and Food: E-Newsletter*, 05(3), 1-4

Sulochana K H. 1 , **Harshitha B S 2** and Bajjuri Divya 2. (2023). An Insight into Physiological and Molecular Basis of Sporophytic Self Incompatibility in Cole Crops. The Science World a Monthly E Magazine, 3(8), 2087-2091

Neelakanta Rajarushi Chava¹, Kalyanam Sai Iswaraya lakshmi¹, **Harshitha B.S.** (2023). Biochar in Insect Pest Management. The Science World a Monthly E Magazine, 3(2), 128–132. <https://doi.org/10.5281/zenodo.7627500>

Ranebennur, H., Rawat, K., **Harshitha, B. S.**, Nayan Deepak, G1, and Muthaiah, G. (2023). Peptidomics: A Novel Tool in Plant Disease Management. Food and Scientific Reports, 4(9):92-95

Book Chapters:

Amaresh, **Harshitha BS** ,Nunavath Aswini (2022). Plant proteomics and implication in crop Improvement for stress Tolerance in in Genetics and Plant Breeding (AGPB-15-0602) Akinik Publications.

Harshitha BS, Vinay Rojaria, Bhargavi HA (2022). Epigenetics and Epigenomics: Mechanism and Implication in Crop Improvement in Advances in Genetics and Plant Breeding (AGPB-20-04) Akinik Publications.

Reddy N N, Sreenatha A, **Harshitha B S** and Adithya V Machnoor (2023). Greenhouse planning design and construction. Brillion publishing. ISBN: 978-8119238-36-1.

Bhargavi, H.A, **Harshitha, B. S**, Sunaina Yadav, Brijesh, K. Mehta, Padmavathi, G. Gore, Kuldeep Tripathi, Ravi Prakash Saini, Basavaraj, P.S (2022). Allele mining for crop genome designing in cowpea. Springer Nature (In press)

Conference abstracts:

Harshitha B.S, Vikram Jeet Singh, Brijesh Kumar Dixit, Nandakumar S, Gopala Krishnan S, K.K. Vinod, Ranjith Kumar Ellur, Haritha Bollinedi, M. Nagarajan, A.K. Singh, P. K. Bhowmick. (2022) Genetic analysis and molecular mapping for elongated uppermost internode in rice. Tending Mendel's Garden for a Perpetual and Bountiful Harvest Symposium, New Delhi-110012

Harshitha B.S, Vikram Jeet Singh, Brijesh Kumar Dixit, Nandakumar S, Gopala Krishnan S, K.K. Vinod, Ranjith Kumar Ellur, Haritha Bollinedi, M. Nagarajan, A.K. Singh, P. K. Bhowmick. (2022) Morphological and Molecular characterization of uppermost internode length in rice germplasm during National Conference held in Hyderabad, Organized by Society for Agriculture Innovation and Development, Ranchi, India.

Amaresh, H.K. Mahadevaswamy, K. Gopalareddy, V. Sreenivasa, V.G. Dhanya, R.T. Maruthi, Aswini Nunavath, G.J. Abhishek, **B.S. Harshitha**, A.J. Prabhakaran, R.M. Shanthi, G. Hemaprabha. "Sugarcane Omics: An Update on the Current Status of Crop Improvement" as Oral Paper in the National Seminar on "Research Imperatives for Sustaining Sugarcane, Sugar and Ethanol Production" held on 25th August, 2023 at ICAR-Sugarcane Breeding Institute, Coimbatore, Tamil Nadu, India.