

## CURRICULUM-VITAE

### **Mr. Arsode Pandurang Bhagvan**

*Ph.D. Scholar*

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<b>Present address:</b> Bal Gangadhar Tilak Hostel, Banaras Hindu University Campus, Varanasi, Uttar Pradesh- 221005 India	<b>Permanent address:</b> At. Kahakar (B.K.), Taluka: Sengaon, Dist. Hingoli, Post- Kendra, Maharashtra- 431703 India
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### **Educational qualification:**

Level	Year of passing	Subject (s) with major field	Percentage/ class	University/ Institute
Matriculation (10 <sup>th</sup> )	2009	Science, English, Mathematics	81.69 %	Maharashtra State Board of Secondary and Higher Secondary Education, Pune.
Intermediate (12 <sup>th</sup> )	2011	Physics, Chemistry, Biology, Mathematics	66.83 %	Maharashtra State Board of Secondary and Higher Secondary Education, Pune.
Bachelor of Science	2011-2015	Agriculture	81.60 %	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (Maharashtra)
Master of Science (Agri.)	2015-2017	Genetics and Plant Breeding	76.30 %	Prof. Jayashankar Telangana Agricultural University, Rajendra Nagar, Hyderabad (Telangana State)
Ph.D. (Ag.)	2017-2022 (Thesis submitted)	Genetics and Plant Breeding	68.90 %	Banaras Hindu University, Varanasi

### **Additional qualification:**

ASRB-ICAR NET (61.11 %)	July-2017	Genetics and Plant Breeding	Indian Council of Agricultural Research, New Delhi.
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<b>Awards &amp; Honors:</b>			
<b>Category of recognition/ award</b>	<b>Item of recognition/ award</b>	<b>Year</b>	<b>Awarding organization</b>
UGC Research Fellowship	BHU-UGC	January, 2018 to December, 2021	University Grant Commission-Banaras Hindu University, Varanasi.
ICAR-National Talent Scholarship	PG- Studies	2016-17	Indian Council of Agricultural Research, New Delhi

<b>Significant achievement:</b>	
ICAR-AIEEA-PG-2015 secured 89 <sup>th</sup> rank in the major Plant sciences subject and secured NTS scholarship during Master's degree programme.	<b>89<sup>th</sup> rank</b>
ICAR- AICE-JRF/SRF(PGS)-2017 secured 9 <sup>th</sup> rank for admission to Ph.D. doctoral degree programmes.	<b>9<sup>th</sup> rank</b>

<b>Publications:</b>			
<b>1. Research papers:</b>			
<b>S. No</b>	<b>Title</b>	<b>Journal details</b>	
		<b>ID</b>	<b>NAAS Rating</b>
1	<b>Pandurang B. Arsode</b> , Ravi P. Singh, S. K. Singh, Manish Kumar, Namrata, Madhu Choudhary, Debarchana Jena, Vineeta Singh, Diptibala Rout, Biswajit Sahoo, Kalpataru Nanda, Prakash Singh, Chander Mohan, Ramlakhan Verma and Vijai Pal Bhadana, <b>2022</b> . Genetics of grain yield and its component traits in drought tolerance rice. <i>Oryza</i> , 59(2): 150-156.	ISSN: 0474-7615 (Accepted)	5.03 (2022)
2	<b>Pandurang B. Arsode</b> , Ravi P. Singh, S. K. Singh, Manish Kumar, Namrata, Madhu Choudhary, Debarchana Jena, Vineeta Singh, Diptibala Rout, Chander Mohan, Ramlakhan Verma, Vijai Pal Bhadana, <b>2022</b> . Combining genomics and phenomics in assessment of genetic diversity and trait association analysis in upland rice ( <i>Oryza sativa</i> L.). <i>Plant Breeding</i> .	Under Review	7.83
3	Manish, K., Singh, R.P., Singh, O.N., Prakash, S., <b>Pandurang, A.</b> , Madhu, C., Debarchana, J., Vineeta, S., Diptibala, R., Mukherjee, A.K. and Sanghamitra, S., <b>2019</b> . Genetic analysis for bacterial blight resistance in indica rice ( <i>Oryza sativa</i> L.) cultivars. <i>Oryza</i> , 56(3): 247-255.	ISSN: 2319-7706	5.03 (2022)
4	Singh, V., Dwivedi, D.K., Khan, N.A., Verma, R.L., Kumar, M., Jena, D., Rout, D., <b>Arsode, P.</b> and Samantaray, S., <b>2020</b> . Combining ability analysis for yield and contributing traits in short duration rice ( <i>Oryza sativa</i> L.). <i>Oryza</i> , 57(4): 271-276.	ISSN: 0976-1675	5.03 (2022)
5	Manish Kumar, Ravi Pratap Singh, Onkar Nath Singh, Prakash Singh, <b>Pandurang Arsode</b> , Debarchana Jena, Sanghamitra Samantaray and Ramlakhan Verma,	ISSN: 2320-7051	

	<b>2019.</b> Generation mean analysis for bacterial blight resistance and yield traits in rice. <i>Journal of Pharmacognosy and Phytochemistry</i> , 8(4): 2120-2124.		
6	<b>Arsode Pandurang</b> , Krishna, K.M., Sunil, N., Sree, V. and Charan, A.R., <b>2017.</b> Combining ability and heterosis studies for grain yield and its components in hybrids of quality protein maize ( <i>Zea mays</i> L.). <i>International Journal of Current Microbiology and Applied Sciences</i> , 6, 2538-2545.	ISSN: 2319-7706	5.38
7	<b>Arsode Pandurang</b> , Krishna, M., Sunil, N. and Sree, S.V., <b>2018.</b> Correlation studies for grain yield and its components in hybrids of quality protein maize ( <i>Zea mays</i> L.). <i>Journal of Research PJTSAU</i> , 46(3): 85-88.	ISSN: 2395-5945	3.60
8	Vineeta Singh, Devendra Kumar Dwivedi, Nawaz Ahmad Khan, Pratibha Yadav, Anuj Kumar, Manish Kumar, Priyanka Gupta, Debarchana Jena, Diptibala Rout, <b>Panduranga Arsode</b> and Ramlakhan Verma Effect of water deficit and salinity stress on morphological traits in early duration rice ( <i>Oryza sativa</i> L.) genotypes 2021, <i>Journal of Pharmacognosy and Phytochemistry 2021</i> ; 10(1): 2232-2236.	ISSN: 2349-8234	5.23
9	Biswajit Sahoo, Sunil Kumar Nair, Debarchana Jena, Diptibala Rout, Vineeta Singh, <b>P Arsode</b> , Amrita Giri, Sadhna Saha, Anushree Pramanik, DK Rana, JL Katara, SD Mohapatra, Sanghamitra Samantaray and Ramlakhan Verma, Genetic diversity analysis among parents and derivative NILs of rice hybrid Rajalaxmi improved for BPH tolerance. <i>The Pharma Innovation Journal</i> , <b>2022</b> ; 11(3): 1519-1522	ISSN: 2349-8242	5.23

## 2. Book chapters:

1	Prakash Singh, Ram Laxhan Verma, Ravi S Singh, Ravi P Singh, Harikesh B Singh, <b>Pandurang Arsode</b> , Manish Kumar, Pawan Kumar Singh, 2019, Biotic Stress Management in Rice ( <i>Oryza sativa</i> L.) Through Conventional and Molecular Approaches,
2	Rout, D., Jena, D., Singh, V., Kumar, M., <b>Arsode, P.</b> , Singh, P., Katara, J.L., Samantaray, S. and Verma, R.L. 2020, Hybrid Rice Research: Current Status and Prospects, Recent Advances in Rice Research, <i>Intechopen</i> , 23-45.
3	RL Verma, D Jena, D Rout, JL Katara, R Raj, S Sarkar, B Sahoo, A Singh, <b>P Arsode</b> , C Mohan, SD Mohapatra, AK Mukherjee, S Samantaray and BC Patra Hybrid rice research and imminent prospects, <i>Advances in Rice Breeding: Stress Tolerance, Climate Resilience, Quality &amp; High Yield</i> . ICAR-National Rice Research Institute, Cuttack, Odisha, India, pp: 426.

## 3. Training Manual:

1	Mishra V.K., Kumar Monu, Kumar Munesh, Devesh Pavan and <b>Arsode Pandurang</b> (2019) Manual of "Training programme-cum- exposure visit on advancement in seed technology and marketing" department of Genetics and Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005.
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## Academic explorations:

S. No.	Title of Seminars /Symposia/Conferences/ Training/Workshop	Name of the organization/Institution	Abstract published	Authors	During
1	International Conference on Advances in	Agricultural Technology development society,	Allele Mining- A new trends	<b>Arsode Pandurang</b>	27-28 October,

	Agricultural and Biodiversity conservation for sustainable development (ABCD-2017)	Ghaziabad, UP	in Crop Improvement	<b>Bhagvan</b>	2017
2	International conference on Novel Application of Biotechnology in Agricultural Sectors: Towards Achieving sustainable Development Goal-2018	Institute of Agricultural Sciences, Banaras Hindu University, Varanasi	Biofortification of crops- nutritional revolution is now	<b>Arsode Pandurang</b> and Ravi P Singh	20-21 March, 2018
3	9 <sup>th</sup> National Seed Congress 2018-19	NSRTC, M of A and FW, GOI, Varanasi. and Department of Genetics and Plant Breeding, BHU, Varanasi.	Problems and prospects of hybrid seed production in Rice: Indian Scenario	<b>Arsode Pandurang</b> , Namrata, Manish Kumar, Prakash Singh and R. P. Singh	February, 19-21, 2019
4	5 <sup>th</sup> Uttar Pradesh Agricultural Science congress	Uttar Pradesh Council of Agricultural Research, Lucknow and Institute of Agricultural Sciences, Banaras Hindu University, Varanasi.	Genome Editing Technique: Revolutionary tool for Crop Improvement	<b>Arsode Pandurang</b> , Manish Kumar, Namrata, Prakash Singh, Ram L. Verma, Vijai P. Bhadana, and Ravi P. Singh	February 22-24, 2020
5	XV Agricultural Science Congress and ASC Expo 2021	National Academy of Agricultural Sciences and I. Ag. SC., Banaras Hindu University, Varanasi	Genomics aided trait introgression of drought tolerance in popular rice cultivar HUR-917	<b>Pandurang B. Arsode</b> , S.K. Singh, Manish Kumar, Debarchana Jena, Vineeta Singh, Namrata, Diptibala Rout, Madhu Choudhary, Biswajit Sahoo, Ramlakhan Verma and	13-16 November, 2021

				Vijai Pal Bhadana	
<b>Trainings and workshops:</b>					
1	Organic Farming	Regional Center of Organic Farming, Nagpur. Dept. of Agri. and Farmers welfare, GOI.	2014	04-08-2014	05-08-2014
2.	A ten days workshop on Data analysis using SAS	DST-CIMS, Banaras Hindu University, Varanasi.	2018-2019	26-12-2018	04-01-2019
3	Statistical Designs and Analytical Methods for Multifactor Experiments	ICAR-CMFRI, Kochi, Kerala.	2021	8-12-2021	17-12-2021
4	Metagenomics Data Analysis	ICAR-IASRI, New Delhi.	2022	19-01-2022	24-01-2022

<b>Research curriculum:</b>		
M.Sc. Thesis	<p><b>Title:</b> Combining ability and heterosis for grain yield and its components in hybrids of Quality Protein Maize (<i>Zea mays</i> L.)</p>	<p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. To determine the nature of gene action controlling quantitative traits and components of genetic variance through line x tester analysis.</li> <li>2. To estimate the extent of heterosis for yield and its components.</li> <li>3. To study the character association between yield and yield attributing traits through correlation and path analysis.</li> <li>4. Quality assessment of QPM genotypes for protein content.</li> <li>5. Screening the QPM lines with SSR markers.</li> </ol>
Ph.D. Thesis	<p><b>Title:</b> Marker assisted introgression of yield QTLs under drought into elite rice cultivar HUR-917.</p>	<p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Validation of linked markers in donor and recipient parents.</li> <li>2. Introgression of yield QTLs/genes under drought (<i>qDTY2.2</i>, <i>qDTY4.1</i>) into cultivar HUR-917 from Donor IR-64drt-1 (DRR Dhan-42) using Marker Assisted Backcross Breeding (MABB).</li> <li>3. To detect transferred QTLs by foreground selection and to recover recurrent parent genome by background selection of BC<sub>2</sub>F<sub>3</sub> generation of the introgressed line using polymorphic SSR markers.</li> <li>4. Selection of recombinants which are high yielding under drought using marker assisted backcrossing.</li> </ol>

<b>Additional Responsibilities and Achievements (merits, qualifications, Teaching experience, etc):</b>			
1	Outstanding Oral Presentation award	9 <sup>th</sup> National Seed Congress, 2018-19.	Organized by NSRTC, Ministry of Agriculture and Farmers welfare, GOI, Varanasi, U.P., India.
2	Best Oral Presentation award	5 <sup>th</sup> Uttar Pradesh Agricultural Science Congress, 2020	Organized by Uttar Pradesh Council of Agricultural Research, Lucknow and I. Ag. Sc., Banaras Hindu University, Varanasi
3	Contributed as a trainer and organizing member	Eight days “Training programme-cum- exposure visit on advancement in seed technology and marketing” 12-19 March, 2019	Department of Genetic and Plant Breeding, Institute of Agricultural Sciences, BHU.

**Teaching experience: Associated with teaching for diploma course 1 and half year**

1	Quality production and research management: 2 (1+1)	January 2019 to June 2019 (6 months)	Department of Genetic and Plant Breeding, Institute of Agricultural Sciences, BHU.
2	Seed production: 3 (2+1)	July 2019 to December, 2019 (6 months)	Department of Genetic and Plant Breeding, Institute of Agricultural Sciences, BHU.
3	Accounting and Finance	January 2020 to June 2020 (6 months)	Department of Genetic and Plant Breeding, Institute of Agricultural Sciences, BHU.

**Participation in extracurricular activities:**

National Service Scheme Volunteer. (2 years)	2009-2011	Directorate of Education, Maharashtra State, Pune.
Member of National Service Scheme. (2 years)	2013-2014	Dr. Panjabrao Deshmukh Krushi Vidyapeeth, Akola, (Maharashtra)
Certificate of appreciation for acting as Volunteer in XXV annual Group meeting of AICRIP Rapeseed and Mustard, 2018.	2016-2017	Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, BHU.
Member of organising committee, International Conference on Novel Applications of Biotechnology in Agricultural Sectors: Towards achieving sustainable development goal-2018.	2018	Department of Extension Education, Institute of Agricultural Sciences, BHU and Directorate of Rapeseed and Mustard, Bharatpur.

**Membership in professional societies:**

Life Membership	Indian Society of Genetics and Plant Breeding, New Delhi.
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**Personal information:**

Date of Birth:	9 <sup>th</sup> July 1993
Nationality:	Indian
Marital status:	Unmarried
Languages known:	English, Hindi, Marathi,
Hobbies:	Exploring new places

**References:**

**1. Dr. Onkar Nath Singh**  
Vice Chancellor  
Birsa Agricultural University, Kanke,  
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**2. Dr. Ram Lakhan Verma**  
Senior Scientist  
Hybrid Rice Breeding, CID,  
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Email-id: [ram.pantvarsity@gmail.com](mailto:ram.pantvarsity@gmail.com)  
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**Declaration:**

I hereby declare that all the information given above is true to the best of my knowledge and belief.



**Arsode Pandurang Bhagvan**