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✚ **Career:**

Principal Scientist (Genetics & Plant Breeding): Feb 2, 2016 – till date at ICAR-Indian Institute of Agricultural Biotechnology, Garhkhatanga, Namkum, Ranchi – 834010 and from Dec 30, 2014 to Feb 1, 2016 at ICAR-Indian Institute of Rice Research, Rajendranagar, Hyderabad – 500030

Senior Scientist (Plant Breeding): from December 30, 2008 to December 29, 2014 at ICAR-Indian Institute of Rice Research (earlier known as Directorate of Rice Research), Rajendranagar, Hyderabad – 500030

Scientist (Plant Breeding): from Mar 10, 2003 to Dec 29, 2008 at ICAR-Research Complex for NEH Region, Manipur Centre, Imphal – 795004

✚ **Awards and Honours:**

✚ **Research Area:** Rice genetics and improvement for yield, nutrient use efficiency, biotic and abiotic stress tolerance

✚ **Group members:** Dr. B. K. Singh, Dr. Avinash Pandey, Dr. Sudhir Kumar, Dr. Sujatha T. P., Dr. K.U. Tribhuvan

✚ **Publications**

1. HK Mahadeva Swamy, M Anila, Ravindra R Kale, **VP Bhadana**, MS Anantha, P Brajendra, SK Hajira, CH Balachiranjeevi, B Laxmi Prasanna, K Pranathi, T Dilip, S Bhaskar, V Abhilash Kumar, MBVN Kousik, G Harika, K Swapnil, G Rekha, C Cheralu, V Gouri Shankar, S Narendra Reddy, Sudhir Kumar, SM Balachandran, MS Madhav, R Mahendra Kumar and RM Sundaram. 2019. Phenotypic and molecular characterization of rice germplasm lines and identification of novel source for low soil phosphorus tolerance in rice. *Euphytica*, 215 (7): <https://doi.org/10.1007/s10681-019-2443-0>
2. M Anila, HK Mahadeva Swamy, RR Kale, **VP Bhadana**, MS Anantha, SK Hajira, CH Balachiranjeevi, M Ayyappa Dass, S Bhaskar, T Dilip, K Pranathi, MBVN Kousik, G Harika, K Swapnil, K Chaitra, B Laxmi Prasanna, E Punniakotti, Pragya Sinha, G Rekha, V Abhilash Kumar, SM Balachandran, MS Madhav, Archana Giri, BC Viraktamath and RM Sundaram. 2018. Breeding lines of the Indian mega-rice variety, MTU 1010, possessing protein kinase OsPSTOL (Pup1), show better root system architecture and higher yield in soils with low phosphorus. *Molecular Breeding*. 38(12):147.

3. CH Balachiranjeevi, Bhaskar Naik, Abhilash Kumar, G Harika, Mahadev Swamy HK, Hajira Sk, Dilip Kumar, M Anila, RR Kale, A Yugender, Karnati Pranathi, MBVN Koushik, K Suneetha, **VP Bhadana**, AS Hariprasad, GS Laha, G Rekha, Sena M Balachandran, MS Madhav, P Senguttuvel, Abdul R Fiyaz, BC Viraktamath, Archana Giri, BPM Swamy, Jauhar Ali and RM Sundaram. 2018. Marker-assisted pyramiding of two major, broad-spectrum bacterial blight resistance genes, Xa21 and Xa33 into an elite maintainer line of rice, DRR17B. *PloS one* 13(10): e0201271.
4. Maganti Sheshu Madhav Supriya Babasaheb Aglawe, Umakanth Bangale, S J S Rama Devi, Vishalakshi Balija, **V P Bhadana**, Susheel Kumar Sharma, Sudhir Kumar and M. Srinivas Prasad. 2018. Characterization of Akhanaphou, an unique landrace from North-East India and its RIL population for rice leaf and neck blast resistance. *Current Trends in Biotechnology and Pharmacy*.12 (2): 118-127.
5. G Padmavathi, PV Satyanarayana, K Vasantha Bhanu, V Jhansi Lakshmi, **VP Bhadana**, M Sheshu Madhav, V Ravindra Babu. 2018. RP 5448-RIL-501 (IC0617119; INGR16001), a Rice (*Oryza sativa*) Germplasm with Novel Dual Donor for Resistance to both Brown Plant Hopper (BPH) and White Backed Plant Hopper (WBPH) Possesses Resistance at Vegetative and Reproductive Stages. *Indian Journal of Plant Genetic Resources*. 31(1): 101-102.
6. Poli Yugandhar, Veronica Nallamothe, Madhusmita Panigrahy, Sitaramamma Tipireddy, **Vijai Pal Bhadana**, Sitapathi Rao Voleti, Subrahmanyam Desiraju, Satendra Kumar Mangrauthia, Sarla Neelamraju. 2018. Nagina 22 mutants tolerant or sensitive to low P in field show contrasting response to double P in hydroponics and pots. *Archives of Agronomy and Soil Science*. 64(14): 1975-1987.
7. Bangale Umakanth, Balija Vishalakshi, P Sathish Kumar, SJS Rama Devi, **V P Bhadana**, P Senguttuvel, Sudhir Kumar, Susheel Kumar Sharma, Pawan Kumar Sharma, MS Prasad, Maganti S Madhav. 2017. Diverse Rice Landraces of North-East India Enables the Identification of Novel Genetic Resources for Magnaporthe Resistance. *Frontiers in plant science*, 8:1500
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15. S Srikanth, Pandey Manish, K, Ch Bala Chiranjeevi, SK Hajira, Kumar S Vijay, MBVN Kousik, **Bhadana VP**, Sheshu Madhav M, Suneetha K, Subba Rao LV, Kumaraswamy M, Archana Giri, Laxmi Narasu B, Shobha Rani N, Sundaram RM. 2016. Introgression of Major Bacterial Blight and Blast Resistant Genes into Vallabh Basmati 22, An Elite Basmati Variety. *International Journal of Development Research*, 6(7): 8366-8370.
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24. N Sivaraj, **V P Bhadana**, S Ganesh Ram, S Hari Ramakrishnan, A John Joel, K Rameash, SR Pandravada, V Kamala, SK Chakrabarty and DC Bhandari. 2014. Collection and Conservation of Cold Adapted Indigenous Rice Landraces from Western Ghats, South India, *Indian Journal of Plant Genetic Resources*, **27**(1): 59-62.
25. B. Sailaja, S. R. Voleti, D. Subrahmanyam, N. Sarla, Vishnu Prasanth V., **V. P. Bhadana**, Satendra K. Mangrauthia. 2014. Prediction and expression analysis of miRNAs associated with heat stress in *Oryza sativa*. *Rice Science*, **21**(1):3-12.

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27. Sandeep Kumar Soni, V.K. Yadav, N. Pratap, **V.P. Bhadana** and T.Ram. 2013. Selection criteria, yield relationship with component traits and grouping of tropical japonica, indica lines and derived hybrids of rice (*Oryza sativa* L.). *SAARC Journal of Agriculture*, **11(2)**:17-32.
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Books:

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2. **Vijai Pal Bhadana**, R.K. Sharma, Kalikant Chaudhury, Sushil Kumar, V.K. Yadav, H.C. Dixit, U.P. Sahi, M.P. Singh, Munna Lal and Rajeev Kumar. 2013. Samanya Krishi Vigyan (General Agriculture Science). A Hindi Book of 159 pages. ISBN: 978-81-925875-4-7, published by Parmar Publishers and Distributers, Dhanbad-828109.
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4. N. Shobha Rani, S. Srikanth, **V.P. Bhadana**, Jyothi Badri, R.M. Sundaram, P. Senguttuvel, G.S.V. Prasad, Trushar Shaw, P.V.N.S. Prasad, A.S. Hari Prasad, L.V. Subba Rao, S.K. Agarwal and B.C. Viraktamath. 2014. Genetic Diversity and Genealogy of Rice Varieties of India. Directorate of Rice Research (Indian Council of Agricultural Research), Rajendranagar, Hyderabad - 500 030. A.P., India. pp. 368, ISBN: 978-81-928249-7-0.
5. V. Ravindra Babu, Jyothi Badri, P. Aruna Sri Yadav, **V.P. Bhadana**, C. Priyanka, LV Subba Rao, G Padmavathi, C. Gireesh and T Ram. 2015. Genealogical Atlas of Indian Rice Varieties. ICAR-Indian Institute of Rice Research, Rajendranagar, Hyderabad – 500030, India. pp. 198
6. V. Ravindra Babu, T Ram, C. Gireesh, LV Subba Rao, G Padmavathi, GSV Prasad, **V.P. Bhadana**, Suneetha Kota, Jyothi Badri, M.M. Azam, D. Sanjeeva Rao, Kumaraswamy Manthri, P. Aruna Sri Yadav, S. Srikanth, E. Nagarjuna, T.L. Acharyalu, N. Shobha Rani, U. Prasada Rao, and J. Ramakrishna Rao. 2015. Fifty Years of AICRIP-Varietal Testing. ICAR-Indian Institute of Rice Research, Rajendranagar, Hyderabad – 500030, India. pp. 344

 **Patent: Nil**