

Dr. JYOTHI BADRI

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1. Personal bio-data:

a) Position/Designation : Scientist (Plant Breeding)

b) Joining date in ICAR : 15-12-2009 (DOB: 21-12-1978)

c) Discipline and Specialization : Genetics and Plant Breeding

d) Training/advance exposure in the area of work:

- Workshop on “Empirical Research on WTO and other issues in International Trade” organized by UNCTAD-India, Taj Ambassador, New Delhi, from 6-8 July, 2010.
- National conference on “Building Next Practices of IP Management” organised by CII-APTDC, Taj Krishna, Hyderabad, from 15-16 July, 2010.
- NAIP sponsored National Training Programme on “IPR and Technology Licensing in Agriculture” from March 2-11, 2011 at NAARM, Hyderabad.
- “TIUG Conference 2011” organised by Thomson Reuters at The Hotel LaLit Ashok, Bengaluru on 28-07-2011.
- Workshop on “Patent Retrieval and Analysis by Ms. Laetitia AYMOUNIN (Asia Pacific Vice President Questel Orbit Inc.)” on 8th January 2012, at Maple, India Habitat Centre, New Delhi.
- Workshop on “Technology Licensing, Valuation and Acquisition for Biotech Sector” organised by Biotechnology Industry Research Assistance Programme (BIRAP) in association with Biotech Consortium India Limited (BCIL) at Hotel Golkonda, Hyderabad (February 16-17, 2012).
- 12th Hands-on-Training-cum-Workshop on “**Designer Breeding through MAS**” organized by Barwale Foundation during December 11-15, 2012.

e) Contribution to the Scientific advancement :

- Contributed in the development of three new rice varieties- DRR Dhan 52 (Heat tolerant variety), DRR Dhan 48 (biofortified for high Zinc content) and DRR Dhan 47 (drought tolerant variety and responsive to low light intensity).
- Identified four landraces with consistent and stable tolerance reaction to sheath blight disease and one major QTL on chromosome 5 for sheath blight tolerance.

- Developed one new plant type core set.
- Identified ten natural allelic variants for yield and culm strength related traits and identified stable high yielding indica/tropical japonica derivatives with high photosynthetic efficiency and desirable grain quality traits.

3. Future Planning of research :

- Sheath blight tolerance in rice
- New plant type traits- Broadening the genetic base of indica rice and modify plant type by introgressing traits from tropical japonica
- Marker assisted introgression for development of multiple gene pyramided lines and
- Development of drought stress tolerant cultivars.

4. Publications :

- B. Jyothi*, B. Divya, L. V. Subba Rao, P. Laxmi Bhavani, P. Revathi, P. Raghuvver Rao, B. Rachana, G. Padmavathi, J. Aravind Kumar, C. Gireesh, M. S. Anantha, R. Abdul Fiyaz, C. Suvarna Rani and A. R. G. Ranganatha (2018) New plant type trait characterization and development of core set among indica and tropical japonica genotypes of rice. *Plant Genetic Resources*: 1–9 doi:10.1017/S1479262118000084
- Susmita Dey, Jyothi Badri*, V. Prakasam, V. P. Bhadana, K.B. Eswari, G. S. Laha, C. Priyanka, Aku Rajkumar and T. Ram (2016) Identification and agro-morphological characterization of rice genotypes resistant to sheath blight. *Australasian Plant Pathology*. 45: 145–153 DOI 10.1007/s13313-016-0404-9
- G. Haritha*, B. P. M. Swamy, M. L. Naik, B. Jyothi, B. Divya, S. Malathi and N. Sarla (2018) Yield Traits and Associated Marker Segregation in Elite Introgression Lines Derived from *O. sativa* × *O. nivara*. *Rice Science* 25(1): 19–31
- Yugandar A, Sundaram RM, Singh K, Ladha Lakshmi, LV Subba Rao, MS Madhav, Jyothi Badri, MS Prasad and GS Laha* (2018) Incorporation of the novel bacterial blight resistance gene Xa38 in to the genetic background of elite rice variety Improved Samba Mahsuri. *PLOS ONE* doi.org/10.1371/journal.pone.0198260
- Divya Balakrishnan*, Desiraju Subrahmanyam, Jyothi Badri, Addanki Krishnam Raju, Yadavalli Venkateswara Rao, Kavitha Beerelli, Sukumar Mesapogu, Malathi Surapaneni, Revathi Ponnuswamy, G. Padmavathi, V. Ravindra Babu and Sarla Neelamraju (2016) Genotype × environment interactions of yield traits in backcross introgression lines derived from *Oryza sativa* cv. Swarna /*Oryza nivara*. *Frontiers in Plant Science* 7:1530. doi: 10.3389/fpls.2016.01530

5. Other relevant activities of Scientist :

- Actively involved in AICRIP mandated activity of the institute
- Serving as trainer and resource person in various national and international training programmes/conferences /symposia related to intellectual property rights.
- Served as faculty for post graduate diploma in technology management (PGDTMA) and involved in the developed of content/study material on intellectual property rights.