

Dr. B. SREEDEVI

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1. Personal bio-data:

- a) Position/Designation** : **Principal Scientist**
- b) Joining date in ICAR** : **05-08-1991, (DOB: 01/04/1966)**
- c) Discipline and Specialization** : **Agronomy (Rice Resource management)**

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

- Asian Pacific Weed Science Society Conference 2017 at Kyoto, Japan from 19-22 September 2017.
- Training program on “GIS techniques for Agro-ecosystems characterization” at International Rice Research Institute, Philippines from March 30 to April 30, 1998.
- International training course on Increasing water use efficiency in agriculture at Water Technology Centre, ANGRAU, Hyderabad from 24 September to 14 October 2007.
- International Rice Research Conference 2000 at International Rice Research Institute, Philippines from 31 March to 3 April 2000

e) Contribution to the scientific advancement:

- Developed economic package of practices for enhancing productivity of Aerobic rice
- Development and release of High Yielding Rice Varieties DRRDhan 42, DRRDhan44, DRRDhan45, DRRDhan46, DRRDhan52 and DRRDhan 55 (Team member).
- Agronomic management of Sulphur nutrition in Rice under selected Rice based cropping systems (Rice-blackgram, rice-sunflower) for improving/ sustaining productivity
- Screening of rice varieties for S deficiency tolerance
- Mapping of soil sulphur status of Research Farm, ICAR-Indian Institute of Rice Research.
- Evaluation of new pre-emergence and post-emergence herbicide molecules and combinations in transplanted rice,
- Evaluation of new pre-emergence and post-emergence herbicide molecules and combinations in puddle direct seeded rice,
- Evaluation of new pre-emergence and post-emergence herbicide molecules and combinations in aerobic rice,
- Improvement of seedling vigor and growth in direct seeded rice by pre-sowing seed treatment
- Role of depth of planting (2-3 cm from surface) in improving the rooting ability, tillering and crop growth and impact on yield attributes and grain yield was analysed.

- Developed “Weed Information System” for Rice Knowledge Management Portal (RKMP)
- Weed management in different methods of Rice establishment
- Nutrient management in Rice and Rice based cropping systems with special reference to Sulphur nutrition
- Water management in different methods of Rice establishment
- Screening of breeding material for agronomic traits in the process of Varietal Development
- Rice Area and Production estimations using Remote Sensing and GIS techniques

2. Future Planning of research :

- Development of resource efficient and economic rice establishment system
- Integrated Weed Management for changing systems of establishment under stress environment
- Farmer participatory resource conservation program in rice production

3. Publications :

Scientific publications:

- **B. Sreedevi**, M.N. Arun, P.Krishnamurthy, A.Sandhyarani, R. Mahenderkumar and BCViraktamath, 2018. Impact of nutrient management on the performance of rice(*Oryza sativa*)-blackgram (*Vigna mungo* L.) cropping system. Indian Journal of Agricultural Research 52(6)2018-637-642.
- **B.Sreedevi**, B.Dhanunjayareddy, B.Sandhyarani, R.Mahenderkumar, P.Senguttuvelu and V.Ravindrababu 2017. Aerobic cultivation technology for limited water rice farmers. International Journal of Tropical Agriculture Vol.35,No.2. 2017. p. 267-272
- **B.Sreedevi**, P.C.Latha, Hemasankari and T.Ram 2016. Sulphur application in rice-blackgram cropping system-changes in yield, economics and post harvest quality. Journal of Rice Research, Vol9: No.1 . Page Nos. 20-23
- **B. Sreedevi**, A. Sandhyarani, D. Sreenivas, B. Venkatanna, A. Vinaykartheek and R. Mahenderkumar 2016. Chemical weed control in aerobic rice. Journal of Rice Research, Vol9: No.2 . Page Nos. 28-31.

Books and Book Chapters:

- **B. Sreedevi** 2020.Climate smart rice cultivation system . Book Chapter in Agriculture Development and Economic Transformation in global scenario. Part I. ISBN-978-81-943375-3-9. Mahima Research Foundation & Social Welfare.
- **B. Sreedevi**, P.C. Latha, P. Hemasankari, T. Ram, V. Jhansilakshmi, D. Krishnaveni and Brajendra (2015) Agronomic management of rice based cropping systems in sulfur deficient soils. Technical Book No.85/2015.IIRR, Rajendranagar, Hyderabad-500030,Telangana, India. P.57.
- Diagnosing nutritional disorders in field crops and their management. Book. Brajendra, A.K. Viswakarma, **B.Sreedevi** and Meghna Sarma. Narendra Publishing House, Delhi-110006 (India)

Technical bulletins

- **B. Sreedevi**, P. Senguttuvel, R. Mahender Kumar, Aarti Singh, P.C. Latha, N. Soma Sekhar, B. Jhansi Rani, G.S. Laha, M.D. Tuti, Soumya Saha, Bandeppa, Shaik N. Meera, S. Arun Kumar, M.N. Arun and S.R. Voleti 2019. Agrotechniques for resource efficient aerobic rice cultivation. Technical Bulletin No. 102/2019. ICAR-Indian Institute of Rice Research, Rajendranagar, Hyderabad-500 030. India. pp. 84.
- **Sreedevi**, B., Krishnamurthy, P., Mahender Kumar, R. and Viraktamath. B. C. 2012. A ready reckoner for rice weeds. Technical Bulletin No. 64, Directorate of Rice Research, Rajendranagar, Hyderabad – 500030, A.P., India. pp 105.
- Krishnamurthy.P., B.Sreedevi, S.P.Singh and R. Mahender Kumar 2010. Weed management in rice. Technical Bulletin No. 48., 42pp.
- Kumar R.M., **Sreedevi B.**, Mangaldeep Tuti, Aarti Singh, Soumya Saha, M.N.Arun, B. Gangaiah, K.Surekha, Brajendra, T.Vidhansingh,M.Sreenivasaprasad, V.Prakasam,Gururaj Katti, CH.Padmavathi, N.Somasekhar,B.Nirmala,L.V.Subbarao,P.Muthuraman and S.R.Voleti 2019. Sustainable Rice and Rice Based Cropping Systems (All India Co-ordinated Rice Improvement Program-AICRIP Experiences). Technical Bulletin No. 105/2019. ICAR-Indian Institute of Rice Research, Rajendranagar, Hyderabad-500030, India.p.128.
- Sailaja B, Ch. Padmavathi, D. Krishnaveni, **B. Sreedevi**, Gururaj Katti, M. Sreenivas prasad, D. Subramanyam and R. Mahenderkumar. 2019. Technical Document on “Smart Rice Hackathon(SRH2019) on mobile based Artificial Intelligence Module for Rice Pest Detection” organized during 9-10 February 2019 at ICAR-Indian Institute of Rice Research, Hyderabad, Telangana, India.pp56.
- K.Surekha, V.Jhansilakshmi, G.Padmavathi, D.Krishnaveni, **B.Sreedevi**, Amtul Waris and V.Ravindrababu.2016. Adhika digubadulaku adhunika sankethika,suchanalalu. Bulletin No.94/2016.Indian Institute of Rice Research, Rajendranagar, Hyderabad-500030. P 81

4. Other relevant activities of Scientist :

- Reviewer for Current Journal of Applied Science and Technology, International Research Journal of Pure and Applied Chemistry, Asian Journal of Botany, Journal of Crop and Weed, Indian Journal of Agricultural Research, Journal of Earth System Science
- Principal Investigator IRRI-STRASA-IFAD –IIRR (2015-2018) : Nutrient management in Boro rice drought tolerant rice varieties.
- Principal Investigator of Dow Agro Sciences India Ltd and Bayer Crop Sciences –IIRR: Evaluation of new herbicide molecules in different systems of rice cultivation
- Co-Principal Investigator in Agronomy program of All India Co-ordinated Rice Improvement Program.
- Co-Principal Investigator in evaluation of new fertilizer products and new herbicide molecules.
- Resource person in the training programs organized by National Institute of Plant Health Management, Tamil Nadu Agricultural University, Indira Gandhi Krishi Viswa Vidyalaya.

- Guiding M.Sc. and Ph.D. students programs of Division of Agronomy from Professor Jaya Sankar Telangana State Agricultural University and Indira Gandhi Krishi Viswa Vidyalaya.
- Mentor Scientist for Post Graduation Participants on Integrated weed management in paddy- part of Module II Certified Farm Advisor Program of MANAGE.
- Member, National Level Monitoring Team of All India Coordinated Rice Improvement Program.
- External Examiner for Post Graduation and Ph.D. programs of Professor Jayasankar Telangana State Agrl University, Acharya NGRanga Agrl Unicversity, Indira Gandhi Krishi Viswa Vidyalaya, Tamilnadu Agricultural University, University of Agriculture Raichur,

5. Membership in Professional Societies:

- Life Member of Indian Society of Agronomy
- Life member, Society of Agronomists (Andhra Pradesh Chapter)
- Life Member, Indian Society of Weed Science.
- Life member, Society for Advancement of Rice Research
- Life member of Indian Society of Soil Survey and Land Use Planning
- Life member of Association of Rice Research Workers

Awards

- Outstanding Scientist Award-2018 at 7th International Conference on Agriculture Horticulture and Plant Sciences 2018
- Certificate of excellence in reviewing the 3rd International Virtual Conference on advanced Scientific results 2015 (ScieConf 2015)
- Fellowship Award 2014 during ECOBASM 2014 by Society for Scientific Development in Agriculture and Technology.