

Profile of Scientist



1. Name of the Scientist : Dr.R.Mahender Kumar
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2. Personal Bio-data:

a) Position/Designation : **Principal Scientist and Head Agronomy, Crop Production Section**
b) Joining date in ICAR : **9-10-1990**
c) Discipline and Specialization : **Agronomy**

- Highly productive crop establishment methods, Water management , Enhancing Nutrient use efficiency

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

- JICA fellowship on rice production technology- Japan for a period of 9 months in 1996
- Use of Biochar in enhancing the productivity of rice systems – University of Edinburgh in 2018

e) Contribution to the scientific advancement : (in about five bullets)

- Associated in Development of Nutrient use efficiency and pest disease resistance cultivars in Rice
- Associated in development of production technologies for basmati, hybrid and latest released varieties
- Development and commercialization of LCC for nitrogen use efficiency
- SRI has been validate and modified to suit and implement in Large scale in India

- As principal investigator (past 10 years) of the AICRIP (35 funded and 15 voluntary centres) monitoring and evaluating agro techniques of rice in different ecosystems for recommendation of site specific agro techniques across the country
- Got advanced training on Biochar utilisation in rice and rice based cropping systems under guidance of the Dr. Saran Sohi, University of Edinburgh , UK

3. Future Planning of research(in bullets) :

- More focused efforts on water saving technologies in rice
- Climate resilient agro techniques in enhancing the productivity
- System based nutrient management for higher productivity (Using Biochar)
- Standardization of new crop establishment methods for enhancing the productivity
- Improving the input use efficiency and doubling the farm income through resource conservation in rice and rice based cropping systems

4. Publications (best five) :

- R. MAHENDER KUMAR, S.V. SUBBAIAH, K. PADMAJA, S.P. SINGH AND V. BALASUBRAMANIAN1 (2001) Nitrogen management through soil and plant analysis development and leaf colour charts in different groups of rice (Oryza sativa) varieties grown on Vertisols of Deccan plateau in Indian Journal of Agronomy 46 (1) : 81-88 (March 2001)
- Kumar RM, Surekha K, Padmavathi Ch, Latha PC, Subba Rao LV, Prasad MS, Muthuraman P, Ravichandran S, Ravindra Babu V, Rupela OP, Goud V, Singh SP, Viraktamath BC (2011). Potential of water saving in irrigated rice through system of rice intensification. Oryza. 48(3), 233-237.
- Kumar, R.M., Rao, P.R., Somasekhar, N., Surekha, K., Padmavathi, Ch., Prasad, M., Babu, V.R., Rao, L.V.S., Latha, P.C., Sreedevi, B., Ravichandran, S., Ramprasad, A.S., Muthuraman, P., Gopalakrishnan, S., Goud V.V. and Viraktamath, B.C. (2013). SRI- A Method for Sustainable Intensification of Rice Production with Enhanced Water Productivity. Agrotechnology S11:009.
- Gopalakrishnan S, Kumar RM, Humayun P, Srinivas V, Ratnakumari B, Vijayabharathi R, Singh A, Surekha K, Ch.Padmavathi, SomaShekar N, Rao PR, Latha PC, Rao LVS, Babu VR, Viraktamath BC, Goud VV, Gujja NLB, Rupela O (2013) Assessment of different methods of rice (Oryza sativa. L). cultivation affecting growth parameters, soil chemical, biological and microbiological properties, water saving and grain yield in rice-rice system. Paddy Water Environment:
- **R. Mahender Kumar**, B.Nirmala, K.Surekha, Ch.Padmavathi, B.Sreedevi, Vidhan Singh, M.S.Prasad, N.Soma Shekhar, L.V. Subbaro, P.Muthuraman, T. Sudhakara reddy and V.R.Babu (2017). Evaluation of SRI method for its potential to enhance the economics and productivity of rice cultivation of Rice (Oryza sativa). L. in **System of Rice intensification edited by K.N.Bhat (pp. 34-49**

Published more than 75 peer reviewed articles , 10 Book chapters and books, 15 Popular articles along with 100 research papers presentations