

1. Name of Scientist : Dr. Rajashekara H

2. Biodata

- a) Designation : Scientist
b) Email : rajaiaripath@gmail.com
c) Telephone No. : 05962-230208
d) Joining date in ICAR : 01.01.2014
e) Discipline and specialization: Plant Pathology (Fungal Pathology)
f) Training/advance exposure in the area of work: Nil



3. Contribution to the scientific advancement

- Characterization of blast pathogen from blast hot spot locations of basmati and non basmati rice growing regions of India
- Identified blast resistant rice genotype with accession no. IC371862 through phenotyping under artificial epiphytotic conditions
- Deposited forty *Magnaporthe oryzae* cultures sequences for ITS region to EMBL data base from basmati and non basmati rice growing regions of India

4. Current area of research

Studies on variability of blast pathogen from infected blast samples of rice, ragi and grasses from North Western Himalayan region of India

5. Publications

1. **Rajashekara H**, Ranjith K Ellur, Apurva Khanna, Nagarajan M, Gopala Krishnan S, Singh A K, Sharma P, Sharma T R and Singh U D. (2014). Inheritance of blast resistance and its allelic relationship with five major *R* genes in rice landrace Vanasurya. *Indian Phytopath.* Accepted
2. Ranjith K. E., Apurva K., Yadav. A, Pathania, S., **Rajashekara, H.**, Singh, V. K., Gopala Krishnan, S., Bhowmick, P.K., Nagarajan, M., Vinod, K.K., Prakash, G., Mondal, K. K., Singh, N. K., Vinod, K, Prabhu and Singh, A. K. (2015). Improvement of Basmati rice varieties for resistance to blast and bacterial blight diseases using marker assisted backcross breeding. *Plant Science* 242:330–341.
3. **Rajashekara, H.**, Prakash, G., Pandian, R.T.P., Sarkel, S., Dubey, A., Sharma, P., Chowdary, V., Mishra, D., Sharma T.R and U.D. Singh. (2016). An efficient technique for isolation and mass multiplication of *Magnaporthe oryzae* from blast infected samples. Special issue of *Indian Phytopath.* 69(4s): 68-71.
4. Asif Bashir Shikari, **Rajashekara, H**, Apurva Khanna, Gopala Krishnan, S, Rathour, R, Singh, U. D, Sharma, T. R, Prabhu, K. V and Singh, A. K. (2014). Identification and validation of rice blast resistance genes in Indian rice germplasm. *Indian J. Genet.* 74(3): 286-299.
5. Abdul Fiyaz R, Gopala Krishnan. S., **Rajashekara, H.**, Ashutosh K Yadav, Bashyal, B.M., Bhowmick, P. K., Singh, N. K., Prabhu, K. V and Singh, A.K. (2015). Development of high throughput screening protocol and identification of novel sources of resistance against bakanae disease in rice (*Oryza sativa* L.). *The Indian Journal of Genetics and Plant Breeding.* 74 (4)

6. Dubey, A.K. Pandian, R.T.P, **Rajashekara, H**, Khanna, A, Ellur, R.K, Sharma, P, Kumar, A, Singh A.K, Gopalakrishnan, S, Rathour, R and Singh, U.D (2014). Molecular validation for blast and sheath blight resistance in improved rice genotypes and landraces. *Indian Phytopath.* 67 (3): 216-221
7. Kumar, A., Neelam, S., Prakash, G., Ghosh, A., Surendra Chikara, **Rajashekara, H.**, Singh, U. D., Aggarwal, R and Rakesh J. (2016). Genome sequence of unique *Magnaporthe oryzae* RMg_D1 isolate from India causing blast disease in diverse cereal crops obtained using PacBio Single Molecule, and Illumina HiSeq2500 sequencing. *Genome Announcements*.

6. Awards and Fellowship

- M. J. Narasimhan Academic Merit Award for PhD Thesis
- Awarded ICAR- JRF