



**Dr. S.Ramchander, M.Sc (Agri.), Ph.D, National-PDF (DST-SERB)**

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**Academic Background**

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<b>Degree</b>	<b>University</b>	<b>Year</b>
National Post Doctoral Fellow	IRRI South Asia Hub, ICRISAT, Hyderabad	2018-2020
Ph.D (Plant Breeding and Genetics)	Tamil Nadu Agricultural University, Coimbatore	2010-2014
M.Sc (Plant Breeding and Genetics)	Tamil Nadu Agricultural University, Coimbatore	2008-2010
B.Sc (Agri.)	Tamil Nadu Agricultural University, Coimbatore	2004-2008

**Courses Taught**

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- Fundamentals of Plant Breeding

**Research Interests**

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- Genomic selection and speed breeding.
  - Haplotype based breeding.
  - Germplasm characterization.
  - Molecular breeding, quality breeding and bio-fortification.
  - Trait mapping and genomic assisted breeding for biotic and abiotic stresses
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## Memberships in Professional Bodies

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- Indian Society of Plant Breeders (Tamil Nadu) Member
- All India Agricultural Students Association
- Trends in Biosciences (An International Journal)
- Agricultural Scientific Tamil Society (SciTSA), New Delhi

## MOST RECENT PUBLICATIONS

- Andrew-Peter-Leon, M.T., **Selvaraj, R.**, Kumar, K.K., Muthamilarasan, M., Yasin, J.K and Pillai, M.A. (2021) Loss of Function of OsFBX267 and OsGA20ox2 in Rice Promotes Early Maturing and Semi-Dwarfism in  $\gamma$ -Irradiated IWP and Genome-Edited Pusa Basmati-1. **Front. Plant Sci.** 12:714066. doi: 10.3389/fpls.2021.714066
- **Selvaraj, R.**, Singh, A.K., Singh, V.K. et al. (2021). Superior haplotypes towards development of low glycemic index rice with preferred grain and cooking quality. **Scientific Reports (Nature)** 11, 10082. <https://doi.org/10.1038/s41598-021-87964-8>.
- Andrew Peter Leon, M.T., **Ramchander, S.**, Kumar, K. K., Muthamilarasan, M., Arumugam Pillai, M. (2021). Assessment of efficacy of mutagenesis of gamma-irradiation in plant height and days to maturity through expression analysis in rice. **PLOS ONE** 16(1): e0245603.
- Dixit, S., Singh, U.M., Singh, A.K., Alam, S., Venkateshwarlu, C., Nachimuthu, V.V., Yadav, S., Abbai, R., **Selvaraj, R.**, et al., (2020). Marker Assisted Forward Breeding to Combine Multiple Biotic-Abiotic Stress Resistance/Tolerance in Rice. **Rice (Springer)**, 13:29. doi:10.1186/s12284-020-00391-7.
- Abbai, R., Singh, V.K., Nachimuthu, V.V., Sinha, P., **Selvaraj, R.**, Vipparla, A.K., Singh, A.K., Singh, U.M., Varshney, R.K., Kumar, A. (2019). Haplotype analysis of key genes governing grain yield and quality traits across 3K RG panel reveals scope for the development of tailor-made rice with enhanced genetic gains. **Plant Biotechnology Journal** 1-11. doi: 10.1111/pbi.13087.
- Shoba, D., M. Raveendran, S. Manonmani, S. Utharasu, D. Dhivyapriya, G. Subhasini, **S. Ramchander**, S.Robin et al., (2017). Development and Genetic Characterization of a Novel Herbicide (Imazethapyr) Tolerant Mutant in Rice (*Oryza sativa* L.). **Rice (Springer)**, 10(10): 1-12. doi 10.1186/s12284-017-0151-8.