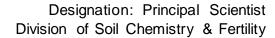
Profile

Dr R Elanchezhian





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Research specialization:

Abiotic stress tolerance; crop productivity enhancement; impact, adaptation studies on climate change; nutrient use efficiency of crops

Professional Experience:

Scientist (1998-2006): Plant physiological and biotechnological research work on biodiversity, stress tolerance and productivity enhancement in agri-horticultural crops

Senior Scientist (2006-2012): Plant physiological and biotechnological research work on abiotic stress tolerance; and Impact, adaptation studies on climate change on agriculture

Prinicpal Scientist (2012-till now): Plant physiological and nano-technological research work on nutrient use efficiency in crops

Awards and Honours:

- 1. Awarded ICAR Junior Research Fellowship during M.Sc. (Plant Physiology).
- 2. Awarded ICAR Senior Research Fellowship and CSIR Senior Research Fellowship for Ph.D. Plant Physiology.
- 3. Awarded **Dr. GS Sirohi Award** by the Indian Society for Plant Physiology at 2nd International Congress of Plant Physiology held at New Delhi, India during 2003.
- Awarded Dr. RD Asana Award for Young Scientist by the Indian Society for Plant Physiology during 2005.
- 5. Awarded **Fellow of Indian Society for Plant Physiology** for contribution in the field of Plant Physiology and Cognate sciences in the year 2008.
- 6. Awarded **NAIP** traineeship for an International Training on **Marker** assisted selection at Department of Genetics & Biochemistry, Clemson University, USA during 2011.

- Awarded as Fellow of National Academy of Biological Sciences for the Agriculture/ Forestry Science section during 2017.
- 8. Acting as **Editor** of Indian Journal of Plant Physiology of Indian Society for Plant Physiology since June 2018.
- 9. Elected as **Zonal Secretary for Central zone** of Indian Society for Plant Physiology comprising Madhya Pradesh, Rajasthan, Chhattisgarh and Jharkhand for three years 2019-2021.

Top Ten publications:

- Elanchezhian R and Panwar JDS (1997) Effect of 2,4-D and Azospirillum brasilense on nitrogen fixation, photosynthesis and grain yield in wheat. Journal of Agronomy and Crop Science 178: 129-133.
- 2. **Elanchezhian R** and Panwar JDS (1999) Effect of 2,4-D and *Azospirillum brasilense* on nodulation and nitrogen fixation in wheat. *Indian Journal of Agricultural Sciences* **69** (1): 58-61.
- 3. **Elanchezhian R** and Srivastava GC (2001). Physiological responses of chrysanthemum petals during senescence. *Biologia Plantarum*, **44** (3): 411-415.
- 4. **Elanchezhian R** and Mandal AB (2007) Growth analysis of somaclones generated from a salt tolerant traditional 'Pokkali' rice (*Oryza sativa*). *Indian Journal of Agricultural Sciences* **77** (3): 184-187.
- 5. **Elanchezhian R**, Senthil Kumar R, Beena SJ and Suryanarayana MA (2007) Ethnobotany of Shompens a primitive tribe of Great Nicobar Island. *Indian Journal of Traditional Knowledge*, **6** (2): 345-351.
- 6. **Elanchezhian R,** Rajalakshmi S and Jayakumar V (2009) Salt tolerant characteristics of *Rhizobium* sp associated with *Vigna marina*, a wild legume of Andaman Islands. *Indian Journal of Agricultural Sciences* **79** (12): 980-985.
- 7. **Elanchezhian R**, A.A. Haris, S. Biswas and V. Chhabra (2012). Simulation of yield and its component traits of rice (*oryza sativa L*.) varieties grown in indo-gangetic plains of Bihar under projected climate change. *Indian Journal of Plant Physiology.* **17** (3 & 4): 195-202.
- 8. **Elanchezhian R**, Santosh Kumar, S. S. Singh, Dwivedi SK, Shivani and B. P. Bhatt (2013). Plant survival, growth and yield attributing traits of rice (*Oryza sativa* L.) genotypes under submergence stress in rainfed lowland ecosystem. *Indian Journal of Plant Physiology* **18** (4): 326-332; (DOI: 10.1007/s40502-013-0050-y).
- Elanchezhian R, V Krisnapriya, R Pandey, A Subba Rao, YP Abrol (2015) Physiological and molecular approaches for improving phosphorus uptake efficiency of crops. *Current Science* 108 (7): 1271-1279.
- 10. **Elanchezhian R**, Kumar D Ramesh K, Biswas AK, Guhey A and Patra AK (2017). Morphophysiological and biochemical response of maize (*Zea mays*) plants fertilized with nano-iron (Fe₃O₄) micronutrient. *Journal of Plant Nutrition* **40** (14), 1969–1977.