

dr Selvakesavan Rajendran Kamalabai

Institute of Plant Genetics, Polish Academy of Sciences

ACADEMIC AND RESEARCH CAREER

May 2017 to till date – Post-doc at Institute of Plant Genetics, Polish Academy of Sciences, Poznan, Poland.

March 2014 to April 2016 – Research consultant at Monsanto Research Centre, Bangalore, India.

October 2012 to September 2013 – Research fellow at University of Minho, Braga, Portugal

August 2009 to August 2012 – Senior research fellow at Institute of Forest Genetics and Tree Breeding (ICFRE), Coimbatore, India

November 2007 to July 2009 – Research fellow at Sugarcane Breeding Institute (ICAR), Coimbatore, India

MAJOR RESEARCH PROJECTS

Web enabled database and analysis of gene sequences implicated in abiotic stress tolerance for screening gene homologues in salt tolerant tree species (DBT, India). Duration 2009-2012; Senior Research fellow

Molecular mechanisms of Agrobacterium recognition and defense activation in recalcitrant plant species. – How do recalcitrant plants avoid T-DNA transfer? (FCT, Portugal). Duration 2012-2013; Research Fellow

HyperNano: Biochemical, transcriptomic and metabolomic approaches to understand plant response at secondary metabolic level using *Hypericum perforatum* as model (NCN, Poland; OPUS11) 2017-2020; Post-doc

HyperAgro: Understanding the relevance of pathogenesis-related defense mechanisms in plant recalcitrance against Agrobacterium mediated transformation (NCN, Poland; OPUS13); Post-doc

RESEARCH VISITS

October 2012 -September 2013: Department of Biology, University of Minho, Braga, Portugal. Research fellow

13th November 2017-17th November 2017: Max Planck Institute of Molecular plant Physiology, Germany; Guest researcher

PUBLICATION (MAJOR PUBLICATIONS, LAST 5 YEARS)

Selvakesavan RK., Franklin G. (2020) Nanoparticles Affect the Expression Stability of Housekeeping Genes in Plant Cells. *Nanotechnol Sci Appl* 13: 77-88. doi: 10.2147/NSA.S265641

Kruszka D, Sawikowska A, Selvakesavan RK, et al (2020) Silver nanoparticles affect phenolic and phytoalexin composition of *Arabidopsis thaliana*. *Sci Total Environ* 716:135361. doi: 10.1016/j.scitotenv.2019.135361

Marslin G, Siram K, Selvakesavan RK, et al (2018) Secondary Metabolites in the Green Synthesis of Metallic Nanoparticles. *Materials (Basel)* 11:940. doi: 10.3390/ma11060940

Selvakesavan RK, Dhanya NN, Thusharas P, et al (2016) Intraspecies variation in sodium partitioning, potassium and proline accumulation under salt stress in *Casuarina equisetifolia* Forst. *Symbiosis* 70:117–127. doi: 10.1007/s13199-016-0424-9