

SARAH JAISON

Designation: Assistant Professor, Department of Botany, PSGR Krishnammal College, Coimbatore, Tamil Nadu.

Research Experience: 15 Years

Teaching Experience: 08 Years

Area of Specialization: Environmental Biotechnology

Email: sarah@psgrkcw.ac.in; sarahjaison@gmail.com

EDUCATION

2002-2005: Bangalore University

BSc (Chemistry, Botany, Zoology)

2005-2007: Bangalore University

MSc Biotechnology

2012-2014: Bharathiar University

MSc Botany

2009-2014: Bharathiar University

PhD Botany

PROFESSIONAL EXPERIENCE

2015-2016: Research Associate, Bharathiar University, Coimbatore

DBT Indo-Swiss Collaborative Project

2018-Till now: Assistant Professor, PSGR Krishnammal College, Coimbatore

PUBLICATIONS -15

1. Patterns of endorhizal fungal associations in fruit crops of southern India. Journal of Plant Nutrition and Soil Science. 2012 Aug;175(4):572-81.
2. Sathiyadash K, Muthukumar T, Bala Murugan S, Sathishkumar R, Uma E, Jaison S, Priyadharsini P. Asymbiotic Seed Germination, Mycorrhization and Seedling Development of *Acampae Praemorsa* (Roxb.) Blatt. & Mc Cann, A Common South Indian Orchid.
3. Assessment of metal accumulation capacity of *Brachiaria ramosa* collected from cement waste dumping area for the remediation of metal contaminated soil. Ecological engineering. 2013 Nov 1; 60:96-8.
4. Chromium accumulation in medicinal plants growing naturally on tannery contaminated and non-contaminated soils. Biological Trace Element Research. 2017 Jan;175(1):223-35.
5. Zinc Influences Regeneration of *Talinum portulacifolium* Stem Cuttings in Nutrient Solution. Notulae Scientia Biologicae. 2018 Dec 21;10(4):530-9.
6. Epigenetics for Combating Chromium Stress in Plants. In Epigenetics for Climate-Smart and Sustainable Agriculture 2025 Jul 29 (pp. 210-222).

7. High-throughput Metabolomics for Plant Ecology and Biodiversity Research. In High-Throughput Plant Metabolomics 2025 Jun 30 (pp. 405-426).
 8. Technological Advancements in Plant High-throughput Metabolomics. In High-Throughput Plant Metabolomics 2025 Jun 30 (pp. 67-95). GB:
 9. Dissecting Plant-Pathogen Interactions by High-Throughput Metabolomics for Developing Biotic Stress-Resilient Crops. In Plant High-Throughput Phenotyping and Functional Phenomics 2025 (pp. 345-362).
 10. High-Throughput Metabolomics for Agricultural Research. In Plant High-Throughput Phenotyping and Functional Phenomics 2025 (pp. 323-344).
-

PROJECTS

Ongoing:2 (BIRAC, DBT)

Completed:3 (BIRAC, TNSCST, GRG Trust)

PATENTS: 2 (Filed)

GENBANK SUBMISSIONS: 7

RESEARCH GUIDANCE

PhD:1 (Ongoing)

HONOURS AND AWARDS

- i. Awarded the NSF Outstanding best research paper award: 2018
 - ii. Awardee of Women's Day by the Lions club of Coimbatore Sidco Industrial Estate: 2024 for Outstanding Contributions
-