Tissue Culture Unit

Tissue Culture Unit of the PDRG Division is being developed and implemented tissue culture protocols for the production, mass multiplication and quality of propagating material to growers and farmers at concessional rates with an aim to demonstrate the Lab-to-Land programmes of the institute using tissue culture technology.

Publications

Books/Booklets: 12
Journal Papers: 250

5 Important research papers published recently


Extension activities

Participation in exhibitions, organizing training / awareness programmes to various categories of students and farmers, supply of authentic research materials on formal request andlor consultation of quality planting materials. Collaboration with other Organizations / Institutions.

Research Team

Dr. Mathew D. Senior Scientist
Sri. C. Muralidharan Unnithan. Tech. Officer Grade IV
Dr. Roshin P. Tech. Officer Grade IV
Dr. Gopalan B. Tech. Officer Grade IV
Dr. M. Sasidhar. Tech. Officer Grade IV
Dr. M. Abdul Akbar. Tech. Officer Grade IV
Sri. M. M. Slowamaraman. Tech. Officer Grade IV
Sri. S. Arun Kumar. Research Scholar
Research Fellow
Project Fellow

Supporting Staff

Vemugopalan Nar. Senior Scientist
S. S. Kamalakumar. Senior Scientist
S. D. Sujitha Podhapa. Senior Scientist
G. Sudarshana Kuppa. Senior Scientist
A. K. Santhosh. Senior Scientist
B. Jayadeep. Senior Scientist
M. Shajahan. Senior Scientist
S. Thulasi Sundaram. Senior Scientist
G. Manickam. Senior Scientist
Mini Thomas. Senior Scientist
Slowamaraman. Senior Scientist
Sri. S. Arun Kumar. Research Scholar
Project Fellow

KCSSTE INTEGRIS

Division of Plant Genetic Resources

Main objective

Genetics conservation, characterization and utilization of national programmes / studies in the following thrust areas: (i) Medicinal, Aromatic & Spices plants, (ii) Horticulture and Ornamental, (iii) Bamboo and Crop Plantations from Western Ghats and Aridland/Island. (iv) Existing cultivated species related to medicinal, conservation, characterization, value addition and popularization of medicinal and aromatic plants are also being carried out.

Major research areas

The major thrusts project of the Division is ‘Genetics Conservation, Characterization & Non- Conventional Multiplication, Maintenance and Sustainable Utilization of Medicinal, Aromatic, Ornamental, Bamboo and Crop Plantations from Western Ghats and Aridland/Island. (v) Existing cultivated species related to medicinal, conservation, characterization, value addition and popularization of medicinal and aromatic plants are also being carried out.

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KCSSTE INTEGRIS
Ginger Conservation

Considering the high diversity, niche overlap, and ability to be propagated ex situ, ginger is a potential target for conservation initiatives. The Ginger Conservation Program of JNTBGRI is currently ongoing, focusing on species diversity and genetic conservation. Ginger is known to have a wide range of uses in traditional medicine and culinary practices.

Bamboo Biology Unit

Bamboos are amongst the largest grasses, with highly specialized rhizomes and underground stems. They are also known for their rapid growth and high biomass productivity. Research on bamboo genetics and conservation is crucial for understanding their evolutionary history and for developing strategies to combat forest degradation.

Observation

The JNTBGRI is conducting ongoing studies on ginger and bamboo, with a focus on genetic diversity, conservation, and sustainable utilization. These efforts are essential for preserving these important plant resources and ensuring their continued availability for future generations.

Field Conservation of Andaman-Nicobar Species

Field Conservation

In order to conserve the biodiversity of the Andaman Islands, a field conservation program is being implemented at the JNTBGRI. This program involves regular monitoring of selected species and their habitat, as well as the establishment of protected areas. The program is supported by collaborations with local communities and governmental agencies.

Systematic Garden of Herbs

Systematic Garden

The JNTBGRI has established a systematic garden of herbs, encompassing over 300 species belonging to 40 families. This garden serves as a valuable resource for research and education, allowing for the study of herbaceous species in a controlled environment.

Butterfly Garden

The Butterfly Garden, located within the JNTBGRI premises, serves as an educational tool for visitors. It features a diverse range of butterflies, showcasing their life cycles and adaptations. Interactive exhibits and guided tours further enhance the educational experience for visitors.

Field Conservation of Andaman-Nicobar Species

Field Conservation

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