

Announcement

Training Workshop on Plant Tissue Culture Techniques

(25 - 28 February 2020)

Suwon, Korea

1. Background

Plantation forestry is recognized as a raw-material base for industrial and domestic wood products, which provides renewable energy, fiber and timber. Because of the growing global demand for forest products, higher yields and uniform product quality are needed. In terms of environmental issues such as global warming and climate change, the requirement for forest protection and biodiversity conservation is increasing. Especially, the biodiversity conservation is a global concern because biodiversity has declined by more than a quarter in the last 35 years.

Plant tissue culture enables the production of plants with superior characteristics and uniform quality for different uses of forest biomass. These techniques are currently in use for the large-scale propagation of important tree species and the sustainable conservation of rare and endangered plant species. The biotechnological methods such as plant cell culture, organogenesis, somatic embryogenesis, and cryopreservation are quite applicable and useful for the conservation and sustainable utilization of forest resources.

The Division of Forest Biotechnology, National Institute of Forest Science (NIFoS), is organizing the training workshop on basic laboratory techniques in plant tissue culture on 25-28 February 2020. The workshop is designed to provide plant tissue culture techniques for the relevant scientists from the developing countries of the Asia-Pacific Region, such as Malaysia, Thailand, Cambodia, Vietnam, Lao, Indonesia, etc.

The theme of the workshop is the applications of plant tissue culture in clonal propagation of forest tree species and conservation of rare and endangered plants. The workshop includes specialized techniques for direct and indirect organogenesis, somatic embryogenesis, micropropagation for large scale multiplication of plants, and microcutting of plantlets.

2. Objectives

The workshop is intended to share basic tissue culture techniques which include:

- I . Principles and application of tissue culture;
- II . Preparation of tissue culture media, sterilization;
- III. Hands on training for various tissue culture techniques; and
- IV. Microcutting of plantlets

3. Organization of the Workshop

Organizer	- Forest Biotechnology Division, National Institute of Forest Science (NIFoS) - Asia Pacific Association of Forestry Research Institutions (APAFRI)
Participants	- Staff at the tissue culture facility - Participating country : 4 developing countries - The number of participants : 8 participants (2 persons from each of the countries)
Date	- 25 – 28 February 2020 ※ Registration Due Date : January 14, 2020
Venue	- Forest Biotechnology Division (Tissue Culture Lab.), National Institute of Forest Science, 39 Onjeong-ro, Gwonseon-gu, Suwon 16631, Republic of Korea
Contact	- Dr. Ji-A Kim - Phone : +82-31-290-1177 - Email : jiahkim@korea.kr

4. Tentative Program

Time	Session
Day 1, 25 February 2020	
14:00 – 15:00	Welcoming address Presentation – Introduction to tissue culture research in National Institute of Forest Science (NIFoS)
15:00 – 15:30	Coffee Break
15:30 – 18:00	Laboratory and Field Tour
18:00 – 18:30	Coffee Break
19:00 – 21:00	Welcome Dinner
Day 2, 26 February 2020	
10:00 – 10:50	Lecture 1. Introduction of plant tissue culture
10:50 – 11:00	Coffee Break
11:00 – 11:50	Lecture 2. Introduction of plant tissue culture- Apical shoot culture
12:00 – 13:00	Lunch
13:00 – 15:00	Lecture 3. Introduction of plant tissue culture–somatic embryogenesis

15:00 – 15:30	Coffee Break
15:00 – 18:00	Lecture 4. Introduction of plant tissue culture–organogenesis and microcutting
Day 3, 27 February 2020	
10:00 – 12:00	Practice – Somatic embryogenesis and Organogenesis
10:30 – 10:45	Coffee Break
10:45 – 12:00	Practice – Somatic embryogenesis and Organogenesis
12:00 – 13:00	Lunch
13:00 – 15:00	Practice - Microcutting of plantlets
15:00 – 15:20	Coffee Break
15:20 – 17:30	Practice - Microcutting of plantlets
17:30 – 18:00	Closing Session
Day 4, 28 February 2020	
10:00 – 16:00	Field trip

Workshop Registration Form

Training Workshop on Plant Tissue Culture Techniques

February 25- February 28, 2020

Title : <input type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr. <input type="checkbox"/> Prof. (Please “ <input checked="" type="checkbox"/> ” if appropriate)		
Family Name	First Name	
Current Position		
Organization		
Address		
Zip/Postal Code	City	Country
Phone	Fax	
Email		
Reasons to attend the workshop:		

※ **Registration Due Date : 14 January , 2020**

※ Please return the completed registration form to :

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