

ICC-COAGENT COCONUT TISSUE CULTURE WORKSHOP IN ICAR-CPCRI, INDIA

Rationale

Knowledge sharing and synergy among COAGENT-ITAG4 members is the key to upscale the Coconut Tissue Culture Technology for a sustainable R & D programme. Progress and breakthroughs in the coconut tissue culture must be given due recognition with provision of the highly needed investment to modernize and advance coconut R & D. Results of research works in various laboratories engaged in coconut tissue culture must be harmonized for complementation and fill the gaps of the currently available protocols. It is inevitable that coconut tissue culture technology and its further R & D has to be strategically planned for its prospects and use in conservation and mass propagation aspects which are vital in the coconut industry development. Thus, this long expected training/workshop was conceptualized to boost collaborations and engagement of stakeholders and researchers among the COAGENT member countries towards innovative and responsive R and D.

Workshop Theme: “Collaborative Initiatives towards Enhancing Tissue Culture R & D”

Objective: To share expertise and develop skills of researchers working on coconut tissue culture in support of the conservation, germplasm exchange and mass propagation program among member countries of COAGENT

Expected Outputs: Trained and skilled researchers, comprehensive and responsive Coconut Tissue Culture R & D program

Number of Trainees: 25

Duration: May 16-20, 2022

Organizer: ICAR-CPCRI-India under the leadership of Dr. Anitha Karun

Co-Organizers: ITAG4, COAGENT and ICC and ACIAR

Funding Agency: ACIAR & The Australian DFAT
Tissue-Culture Workshop Programme



Date	Mins	Theme	Presenter	Affiliation	
16-May Mon		Registration	ICC-COSENT		
	2	ICAR Geet	ICAR-CPCRI		
	2	Prayer	ICAR-CPCRI		
	5	Welcome address	Dr. M.K. Rajesh Principal Scientist (Biotechnology)	ICAR-Central Plantation Crops Research Institute, India	
	5	Overview of COSENT as ICC Program	Dr. Jelfina C. Alouw ICC Executive Director	International Coconut Community (ICC), Indonesia	
	15	Inaugural Address	Dr. Anand Kumar Singh, Deputy Director General (Horticultural Science)	ICAR, New Delhi, India	
	10	Address by Guest of Honour	Dr. Geetha Meetina Joint Secretary (Mission for Integrated Development for Horticulture)	Ministry of Agriculture & Farmers Welfare, India	
	5	Felicitation	Dr. Vijaya Lakshmi Nadendia, IAS, Chairman	Coconut Development Board, India	
	5	Felicitation	Dr. B.K. Pandey, Principal Scientist (HS) & I/C ADG (HS-II)	ICAR, New Delhi	
	5	Coconut Conservation Strategy	Mrs. Erlene Manohar, COSENT Coordinator	International Coconut Genetic Resources Network (COSENT)	
	20	Key Note Address	Dr. Anitha Karun, Director and ITAG 4 Leader	ICAR-Central Plantation Crops Research Institute, India	
	5	Vote of Thanks	Dr. V. Niral, Principal Scientist (Genetics)	ICAR-Central Plantation Crops Research Institute, India	
	1	Indian National Anthem			
		Lunch hosted by ICC			
	Session 1. Demonstration of Embryo Culture and Exchange Protocols				
	40 + 10 min	Status paper: Embryo Culture and Exchange	Dr. Cristeta Cueto, Senior Researcher	Philippine Coconut Authority, Philippines	
1.5 hours	<i>Collection, Isolation, Culture, Exchange</i>	Dr. Cristeta Cueto, Senior Researcher Dr. Steve Adkins, Professor / Researcher Dr. Quang Nguyen, Scientist	Philippine Coconut Authority, Philippines University of Queensland, Australia International University, Vietnam National University-HCM, Vietnam		

Session 2. Demonstration of <i>Ex Vitro</i> Plantlet Establishment				
17-May Tuesday	40+10 min	Status paper: Acclimatization of TC plantlets	Dr. Quang Nguyen, Scientist	International University, Vietnam National University-HCM, Vietnam
	1.5 hours	<i>Acclimatization and Hardening techniques</i>	Dr. Cristeta Cueto, Senior Researcher Dr. Steve Adkins, Professor / Researcher Dr. Quang Nguyen, Scientist	Philippine Coconut Authority, Philippines University of Queensland, Australia International University, Vietnam National University-HCM, Vietnam
Session 3. Demonstration Clonal Propagation Protocols				
17-May Tuesday	40 + 10 min	Status paper: Clonal Propagation (SE + organogenesis)	Dr. Carlos Oropeza, Senior Researcher	Centro de Investigación Científica de Yucatán, Mexico
	1.5 hours	Plumule somatic embryogenesis	Dr. Carlos Oropeza, Senior Researcher Dr. Cristeta Cueto, Senior Researcher Dr. Anitha Karun, Director and ITAG 4 Leader Dr. M.K. Rajesh Principal Scientist	Centro de Investigación Científica de Yucatán, Mexico Philippine Coconut Authority, Philippines ICAR-Central Plantation Crops Research Institute, India ICAR-Central Plantation Crops Research Institute, India
	1.5 hours	Immature inflorescence somatic embryogenesis	Dr. Shareefa Maruthengal, Senior Scientist Dr. Carlos Oropeza, Senior Researcher Dr. Cristeta Cueto, Senior Researcher	ICAR-Central Plantation Crops Research Institute, India Centro de Investigación Científica de Yucatán, Mexico Philippine Coconut Authority, Philippines
	1.5 hours	Unfertilized ovule somatic embryogenesis	Dr. Vijitha Vidhanaarachchi, Head, TC Division Dr. Anitha Karun, Director and ITAG 4 Leader	Coconut Research Institute, Sri Lanka ICAR-Central Plantation Crops Research Institute, India

18-May Wednesday	1.5 hours	Shoot organogenesis	Dr. Bart Panis, Senior Researcher Dr. Anitha Karun, Director and ITAG 4 Leader	Alliance of Bioversity International and CIAT, Belgium ICAR-Central Plantation Crops Research Institute, India
	Session 4. Demonstration of Coconut Cryopreservation Protocols			
	40 + 10 min	Status paper: Coconut cryopreservation (embryo + shoot tip)	Dr. Steve Adkins, Professor / Researcher Dr. Bart Panis, Senior Researcher	University of Queensland, Australia Alliance of Bioversity International and CIAT, Belgium
	1.5 hours	Coconut zygotic embryo cryopreservation	Dr. Steve Adkins, Professor / Researcher Dr. Quang Nguyen, Scientist Dr. Bart Panis, Senior Researcher	University of Queensland, Australia International University, Vietnam National University-HCM, Vietnam Alliance of Bioversity International and CIAT, Belgium
	1.5 hours	Coconut shoot tip cryopreservation	Dr. Steve Adkins, Professor / Researcher Dr. Quang Nguyen, Scientist Dr. Bart Panis, Senior Researcher	University of Queensland, Australia International University, Vietnam National University-HCM, Vietnam Alliance of Bioversity International and CIAT, Belgium
	1.5 hours	Coconut pollen cryopreservation	Dr. Anitha Karun, Director and ITAG 4 Leader	ICAR-Central Plantation Crops Research Institute, India
	1.5 hours	Tour of ICAR-CPCRI Research Programs	Dr. Anitha Karun, Director and ICAR-CPCRI team	ICAR-Central Plantation Crops Research Institute, India

Session 5. Networking and International Project Develop				
19-May Thurs	2 hours	Project research proposal development	All Experts – led by Dr. Carlos Oropeza	
	1 hour	Preparation of reports and research papers	All Experts – led by Dr. Steve Adkins	
	2 hours	Network development	All Experts – led by Dr. Quang Nguyen	
	1 hour	Summing up	Dr. Jelfina Alouw, ICC Executive Director Mrs. Erlene Manohar, COGENT Coordinator	International Coconut Community (ICC), Indonesia International Coconut Genetic Resources Network (COGENT)
		Group Photograph and Workshop Dinner		
20-May Fri	7 hours	Field visit to ICG-SAME/ Field Visit/ Coconut industries	All delegates	

For more information: <https://www.cogentnetwork.org/>

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