

INTERNATIONAL WORKSHOP ON *EX SITU* CONSERVATION AND CRYOPRESERVATION OF PLANT SPECIES

MARCH 8th TO 10th 2017

TO BE HELD AT THE:

NATIONAL GENETIC RESOURCES CENTER

of the: National Forestry, Crops and Livestock Research Institute

Tepatitlan de Morelos, Jalisco, Mexico

Organized by:

- *CNRG - INIFAP
- *University of Guadalajara
- *Huntington Botanical Gardens
- *Japan International Cooperation Agency
- *National Forestry Commission

Fundamental aspects of *ex situ* conservation of plant genetic resources

Plant tissue culture and cryopreservation techniques

Practical demonstrations

FREE ADMISSION - LIMITED SEAT AVAILABILITY

INFORMATION AND REGISTRATION

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Wednesday 8th

Hour	Title	Speaker
8:30 – 9:30	Registration	
9:30 – 10:00	Opening ceremony	Authorities of INIFAP, CONAFOR and Universidad de Guadalajara (MEXICO)
10:00 – 10:30	Legislation for the collection of plant material	Ing. Ricardo RÍOS RODRÍGUEZ Ing. Gustavo GONZÁLEZ VILLALOBOS (SEMARNAT, MEXICO)
10:30 – 11:00	Science based conservation of Mexican Flora	Dr. Rafael LIRA SAADE Dra. Patricia DÁVILA ARANDA (Facultad de Estudios Superiores Iztacala, MEXICO)
11:00 – 11:30	New concepts for the orthodox-recalcitrant seed dichotomy and what it means for preserving seeds	Dr. Christina WALTERS (United States Department of Agriculture Agricultural Research Service, USA)
11:30 – 11:45	Coffee break	
11:45 – 12:15	Conservation of Mexican cocoa collections in southeastern Mexico	Dr. Carlos AVENDAÑO ARRÁZATE (Campo Experimental, Rosario Izapa, INIFAP, MEXICO)
12:15 – 12:45	Genetic diversity assessment in Mexican cacao collections and development of core collection	Dr. Moisés CORTES CRUZ (CNRG, MEXICO)
12:45 – 13:15	The conservation in the Mexican Botanical Gardens: diachronic, synchronous and prospective perspective	Ing. Emiliano SÁNCHEZ MARTÍNEZ (Jardín Botánico Regional de Cadereyta, Querétaro, MEXICO)
13:15 – 13:45	Integrating taxonomy and <i>in situ</i> and <i>ex situ</i> conservation of biodiversity: The case of magnolias	Dr. Antonio VÁZQUEZ (Universidad de Guadalajara, MEXICO)
13:45 – 15:15	Lunch	
15:15 – 15:45	Wild potatoes conservation in Mexico	Dr. Aarón RODRÍGUEZ (Universidad de Guadalajara, MEXICO)
15:45 – 16:15	<i>Ex situ</i> conservation of banana at Bioversity International	Dr. Bart PANIS (Bioversity International, KU Leuven, BELGIUM)
16:15 – 16:45	Conservation and cryopreservation of fruit crops in the USDA-ARS National Plant Germplasm System	Dr. Gayle VOLK (United States Department of Agriculture, Agricultural Research Service, USA)

16:45 – 17:15	Sampling of genetic diversity of wild populations for conservation at the Millennium Seed Bank	Ing. Michael WAY (Royal Botanic Gardens Kew, UNITED KINGDOM)
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Thursday 9th

Hour	Title	Speaker
9:00 – 9:30	Advances in cryopreservation of tropical plant species vegetatively propagated.	Dr. María Teresa GONZÁLEZ ARNAO (Universidad Veracruzana, MEXICO)
9:30 – 10:00	Fundamental aspects of cryopreservation and droplet vitrification	Dr. Bart PANIS (Bioersity International, KU Leuven, BELGIUM)
10:00 – 10:30	<i>In vitro</i> culture and cryopreservation for exceptional plant conservation: Potential and challenges	Dr. Valerie PENCE (Cincinnati Zoo & Botanical Garden, Cincinnati, USA)
10:30 – 11:00	Cryopreservation as a strategy to preserve forest species biodiversity	Dr. Maurizio LAMBARDI (Consiglio Nazionale delle Ricerche Istituto per la valorizzazione del legno e delle specie arboree, ITALY)
11:00 – 11:30	Development of V and D Cryo-plate methods	Dr. Takao NIINO (National Agriculture and Food Research Organization, JAPAN)
11:30 – 11:45	Coffee break	
11:45 – 12:15	Use of molecular markers in tissue culture	Dr. Lourdes Georgina IGLESIAS ANDREU (Universidad Veracruzana, MEXICO)
12:15 – 12:45	Cryopreservation for the long-term conservation of tropical palms	Dr. Florent ENGELMANN (Institut de Recherche pour le Developpement, IRD, FRANCE)
12:45 – 13:15	Somatic embryogenesis in <i>Agave tequilana</i> : First steps in cryopreservation	Dr. Rafael SOLTERO Dr. Liberato PORTILLO MARTÍNEZ Dr. Fernando SANTACRUZ RUVALCABA Dr. Takao NINO Biól. Lourdes DELGADO (Universidad de Guadalajara, MEXICO)
13:15 – 13:45	Cryopreservation studies at The Huntington Botanical Gardens: a garden in deep freeze	Dr. Raquel FOLGADO (The Huntington Botanical Gardens, USA)
13:45 – 15:15	Lunch	
15:15 – 15:45	Cryopreservation of animal cells as a strategy for Genetic Resources preservation.	M. C. Horacio ÁLVAREZ GALLARDO (CNRG, MEXICO)

15:45 – 16:15	Cryopreservation of Microbial Genetic Resources	Dr. Ramón Ignacio ARTEAGA GARIBAY (CNRG, MEXICO)
16:15 – 17:15	Tour in the CNRG	

Friday 10th

Hour	Title	
9:00 – 13:00	Practical session	Dr. Takao NIINO Dr. Florent ENGELMANN Dra. María Teresa GONZÁLEZ ARNAO
13:00 – 13:30	Final remarks	All
13:30 – 14:00	Closing ceremony	Dr. Jorge Armando BONILLA CÁRDENAS (Director of Research in the Pacific Center Region – INIFAP, MEXICO)
14:00 – 15:30	Lunch	