



Food And Agriculture
Organisation Of The
United Nations



IAEA

الوكالة الدولية للطاقة الذرية
国际原子能机构
International Atomic Energy Agency
Agence internationale de l'énergie atomique
Международное агентство по атомной энергии
Organismo Internacional de Energía Atómica

JOINT FAO/IAEA INTERNATIONAL TRAINING COURSE ON NOVEL BIOTECHNOLOGIES AND MOLECULAR TECHNOLOGIES FOR ENHANCING MUTATION INDUCTION EFFICIENCY

2nd NOVEMBER – 4th DECEMBER 2009

Plant Breeding Unit

FAO/IAEA Agriculture & Biotechnology Laboratory

Agency's Laboratories

Vienna and Seibersdorf

AUSTRIA



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WEEK 1: 02 NOVEMBER – 08 NOVEMBER 2009

TIME		ACTIVITY		RESOURCE PERSON
MONDAY	8.00-9:30	Registration at Vienna International Centre (VIC), Vienna		<i>Ms. R. Cueto</i>
	10:30-12:30	Administrative Matters		<i>Ms. R. Cueto</i>
		Opening Ceremony: Agency Laboratories		<i>Ms. G. Voigt (DIR-NAAL)</i>
		Opening Ceremony: Joint FAO/IAEA Programme		<i>Mr. Q. Liang (DIR-NAFA)</i>
		Introduction: Participants, Consultants and Staff Members		<i>Joint Programme Staff</i>
	12:30-13:30	Lunch Break		
	13:30-15:00	Supporting Capacity-building in Induced Crop Mutations & Biotechnologies in Member States: The Joint FAO/IAEA Strategies		<i>Mr. P. Lagoda</i>
	15:00-16:00	Ice-breaking Exercises		<i>Joint Programme Staff</i>
16:00-18:00	Welcome Reception			
TUESDAY	8:30-9:30	L	Good Laboratory Practices	<i>Mr. K. Gaggl</i>
	9:30-11:00	L	PBU Laboratory Tour: Infrastructure & Overview of Activities	<i>Joint Programme Staff</i>
	11:00-12:30	L	Mutations: Basic Concepts	<i>Mr. C. Mba</i>
	12:30-13:30	Lunch Break		
	13:30-14:30	L	Use of Induced Mutations in Crop Improvement: An Overview; Enabling Technologies for Induced Crop Mutations	<i>Mr. C. Mba</i>
	14:30-16:00	L	Introduction to Mutation Induction: Mutagens and Strategies for Inducing Mutations I	<i>Ms. R. Afza</i>
WEDNESDAY	8:30-9:30	L	Introduction to Mutation Induction: Mutagens and Strategies for Inducing Mutations II	<i>Ms. R. Afza</i>
	9:30-12:30	P	Radiation Sensitivity Testing: Seed and Vegetatively Propagated Plants	<i>Joint Programme Staff</i>
	12:30-13:30	Lunch Break		
	13:30-14:30	P	Demonstration & Exercises: Data Computation and Interpretation	<i>Joint Programme Staff</i>
	14:30-15:30	P	Presentation and Discussion of Results by Training Course Participants	<i>Participants & Joint Programme Staff</i>
	15:30-17:00	L	Generation of Mutagenic Populations: Case Studies.	<i>Joint Programme Staff</i>
THURSDAY	8:30-10:00	L	The Genetic Features of Mutated Populations and Induced Mutants	<i>Mr. Q. Shu</i>
	10:00-11:00	ABL Tour (Soil Science and Entomology Units)		
	11:00-12:30	L	Induced Mutations for Producing Added-value Crops: Enhanced Nutrition and Income Generation	<i>Ms. Y. Lokko</i>
	12:30-13:30	Lunch Break		
	13:30-15:00	L	Mutation Induction: A Unique Tool for Breeders and Scientists to Quicken Crop Improvement under Harsh Conditions	<i>Ms. M. Spencer</i>
15:00-16:00	ABL Tour (Animal Production and Agrochemicals Units)			
FRIDAY	8:30-12:30	L	Phenotyping for Plant Breeding I	<i>Mr. J. Vollmann</i>
	12:30-13:30	Lunch Break		
	13:30-16:00	L	Phenotyping for Plant Breeding II	<i>Mr. J. Vollmann</i>
SATURDAY <i>07 NOVEMBER 2009</i>		Free		
SUNDAY <i>08 NOVEMBER 2009</i>		Free		

WEEK 2: 09 November – 15 November 2009

TIME		ACTIVITY		RESOURCE PERSON
MONDAY	8:30-10:30	L	Molecular Basis of Inheritance	<i>Mr. C. Mba</i>
	10:30-11:00	L	DNA Extraction: Overview of Laboratory Work.	<i>Joint Programme Staff</i>
	11:00-12:30	P	DNA Extraction	
	12:30-13:30	Lunch Break		
	13:30-18:00	P	DNA Extraction (cont.)	<i>Joint Programme Staff</i>
TUESDAY	8:30-10:30	P/L	Quality and Quantity Analysis of Isolated Genomic DNA Demonstration of DNA quantification using ImageJ	<i>Mr. B. Till</i>
	10:30-12:30	L	Molecular Marker Systems: PCR-based Markers I	<i>Mr. C. Mba</i>
	12:30-13:30	Lunch Break		
	13:30-14:30	P	Setting up of PCR for SSR	<i>Joint Programme Staff</i>
	14:30-16:00	P	Setting up of Plates and Casting of Polyacrylamide Gel	
WEDNESDAY	8:30-10:30	P	Visualization of SSR Reactions on Agarose and Polyacrylamide Gels	<i>Joint Programme Staff</i>
	10:30-12:30	L	Molecular Marker Systems: PCR-based Markers II	<i>Mr. C. Mba</i>
	12:30-13:30	Lunch Break		
	13:30-15:00	P	Silver Staining of Polyacrylamide Gels	<i>Joint Programme Staff</i>
	15:00-16:00	P	Set up of Digestion–Ligation Reactions	
THURSDAY	8:30-9:30	L	Chromosomes, Genomes and Challenges in Plant Breeding	<i>Mr. P. Heslop-Harrison</i>
	9:45-12:30	L	The Structure and Composition of Chromosomes and Sources of DNA Markers	
	12:30-13:30	Lunch Break		
	13:30-17:00	P	Setting up of Retroelement-based PCR Markers for Diversity Analysis: IRAPs Fixation and preparation of Chromosomes for Molecular Cytogenetics	<i>Mr. P. Heslop-Harrison</i>
FRIDAY	8:30-12:30	L	Exploitation of New and Old diversity in Crop Breeding	<i>Mr. P. Heslop-Harrison</i>
	12:30-13:30	Lunch Break		
	13:30-17:00	P	IRAP Marker Analysis: Agarose Gel Electrophoresis and Photographing Gels Fluorescent <i>in situ</i> Hybridization (demonstration in fluorescent microscope room)	<i>Mr. P. Heslop-Harrison</i>
SATURDAY <i>14 NOVEMBER 2009</i>		Free		
SUNDAY <i>15 NOVEMBER 2009</i>		Free		

WEEK 3: 16 November – 22 November 2009

TIME		ACTIVITY		RESOURCE PERSON
MONDAY	8:30-9:30	P	Setting up of Pre-amplification Reactions for AFLP	Joint Programme Staff
	10:00-12:30	L	Molecular Marker Systems: Hybridization-based	Mr. C. Mba
	12:30-13:30	Lunch Break		
	13:30-14:30	P	Loading of Agarose Gels	Joint Programme Staff
	14:30-16:00	P	Setting up of Glass Plates and Casting of Polyacrylamide Gels	
	16:00-18:00	P	Gel visualisation and Setting up of Selective PCR	
TUESDAY	8:30-10:00	P	Loading of Polyacrylamide Gels	Joint Programme Staff
	10:00-12:30	L	Integration of Genomics in Crop Improvement: Molecular Breeding	Mr. C. Mba
	12:30-13:30	Lunch Break		
	13:30-15:00	P	Silver Staining	Joint Programme Staff
	13:30-15:00	P	Demonstration: High-throughput Fingerprinting Methods	Ms. M. Matijevic
	15:00-17:00	L	Quantitative Methods in Molecular Biology	Mr. P. Lagoda
WEDNESDAY	8:30-10:30	L	Molecular Techniques in Management of Plant Genetic Resources for Food and Agriculture: Methodologies	Mr. P. Lagoda
	10:30-12:30	L	Carbon Isotope Discrimination assays	Mr. J. Adu-Gyamfi
	12:30-13:30	Lunch Break		
	13:30-14:30	L	Status of Mutation Induction for Vegetatively Propagated Plants	Mr. C. Mba
	14:30-17:00	L	Introduction to Plant Tissue Culture	Ms. M. Laimer
THURSDAY	8:30-12:30	L/ P	Introduction to Somatic Embryogenesis	Ms. M. Laimer
	12:30-13:30	Lunch Break		
	13:30-14:30	P	Somatic Embryogenesis (cont.)	Ms. M. Laimer
	14:30-16:00	L	Doubled Haploidy I	Mr. A. Touraev
FRIDAY	8:30-12:30	L	Doubled Haploidy II	Mr. A. Touraev
	12:30-13:30	Lunch Break		
	13:30-16:00	P	Doubled Haploidy: Practical	Joint Programme Staff
SATURDAY 21 NOVEMBER 2009		Free		
SUNDAY 22 NOVEMBER 2009		Free		

WEEK 4: 23 November – 29 November 2009

TIME		ACTIVITY		RESOURCE PERSON
MONDAY	8:30-12:30	L/ P	Transcriptome Profiling I	Mr. H. Boblmann
	12:30-13:30	Lunch Break		
	13:30-18:00	L/ P	Transcriptome Profiling II	Mr. H. Boblmann
		T	Plant EST Resource Centre and Repository (PICME) of the Austrian Institute of Technology	Ms. S. Fluch & Mr. M. Stierschneider
TUESDAY	8:30-10:00	L	TILLING and Ecotilling Introduction	Mr. B. Till
	10:15-11:00	L	Laboratory Activities Overview	
	11:00-12:30	P	PCR with IRDye-labeled Primers	
	12:30-13:30	Lunch Break		
	13:30-16:00	L/ D	Computational Tools I: Genome Sequence Acquisition and Analysis, Primer Design and Testing	Mr. B. Till
WEDNESDAY	8:30-09:00	L	Review of Yesterday, Overview of Today, Q&A	Mr. B. Till
	9:00-11:00	P	Heteroduplex Digestion and Preparation of Sephadex Spin Plates	
	11:00-12:30	L	Efficiency Considerations for TILLING, Mutagenesis, Population Structure and Other Issues. Quiz	
	12:30-13:30	Lunch Break		
	13:30-16:00	P	Agarose Gel Analysis of Enzymatic Mismatch Cleavage and Sample Purification	Mr. B. Till
THURSDAY	8:30-9:00	L	Review of Yesterday, Overview of Today, Q&A	Mr. B. Till
	9:00-10:30	P	Preparing, Loading and Running Li-Cor Gels	
	10:45-12:30	L	Alternative Mutation Discovery: Methods	
	12:30-13:30	Lunch Break		
	13:30-16:00	L/ D	Computational Tools II: Data Analysis	Mr. B. Till
FRIDAY	8:30-9:00	L	Review of Yesterday, Overview of Today	Mr. B. Till
	9:00-9:30		Quiz Answers and Discussion.	
	10:00-12:30	L	Special Lecture on PBU Activities in TILLING and Ecotilling	
	12:30-13:30	Lunch Break		
	13:30-14:30	L	Data Analysis of Course Data	Mr. B. Till
	14:50-16:00	L	Troubleshooting and Summary/Wrap-up	
SATURDAY 28 NOVEMBER 2009		Free		
SUNDAY 29 NOVEMBER 2009		Free		

WEEK 5: 30 November – 06 December 2009

TIME		ACTIVITY		RESOURCE PERSON
MONDAY	8:30-9:30	L	Introduction to Population Genetics	Mr. J.-F. Fernandez-M.
	9:45-11:15	P	Practical Session 1: Data Formatting	
	11:30-12:30	P	Practical Session 2: Estimating Genetic Diversity	
	12:30-13:30	Lunch Break		
	13:30-14:30	L	Inbreeding and Hardy-Weinberg	Mr. J.-F. Fernandez-M.
	14:45-16:00	P	Practical Session 3: Using FSTAT	
TUESDAY	8:30-9:30	L	Population Structure: Fst and Related Measures	Mr. J.-F. Fernandez-M.
	9:45-12:30	P	Practical Session 4: Estimating Fst with FSTAT	
	12:30-13:30	Lunch Break		
	13:30-14:30	L	Population Divergence: Constructing Dendrograms	Mr. J.-F. Fernandez-M.
	14:45-17:00	P	Practical Session 5: Dominant Data Analysis	
WEDNESDAY	8:30-9:30	P	Practical Session on Population Assignment: Software STRUCTURE	Mr. J.-F. Fernandez-M.
	9:45-12:30	P	Comprehensive Project: Personal Data/Human Data	
	12:30-13:30	Lunch Break		
	13:30-17:00	P	Comprehensive Project: Personal Data/Human Data (cont.)	Mr. J.-F. Fernandez-M.
THURSDAY	8:30-12:30	S	Participants' Seminar Presentations: Morning Session	Joint Programme Staff
	12:30-13:30	Lunch Break		
	13:30-17:00	S	Participants' Seminar Presentations: Afternoon Session	Joint Programme Staff
FRIDAY	9:00-13:00	Overview of Agency Mechanisms for Providing Support to Research and Development Activities in Member States—Technical Cooperation		Ms. N. Colinet
		The Agency's Coordinated Research Activities		Ms. T. A. Benson
		Sustainable Use of Plant Genetic Resources for Food & Agriculture		Ms. K.Ghosh (AGP, FAO)
		Presentation and Discussion of the Participants' Course Evaluation		Mr. C. Mba
		Closing Remarks and Presentation of Certificates		Mr. Q. Liang (DIR-NAFA)
SATURDAY 05 DECEMBER 2009		Departure		
SUNDAY 06 DECEMBER 2009		Departure		

LEGEND:

- L = Lecture
- P = Practical
- T = Study Trip
- S = Seminar
- D = Demonstration

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JOINT FAO/IAEA PROGRAMME OF NUCLEAR TECHNIQUES
IN FOOD AND AGRICULTURE

Website: www-naweb.iaea.org/nafa/index.html



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