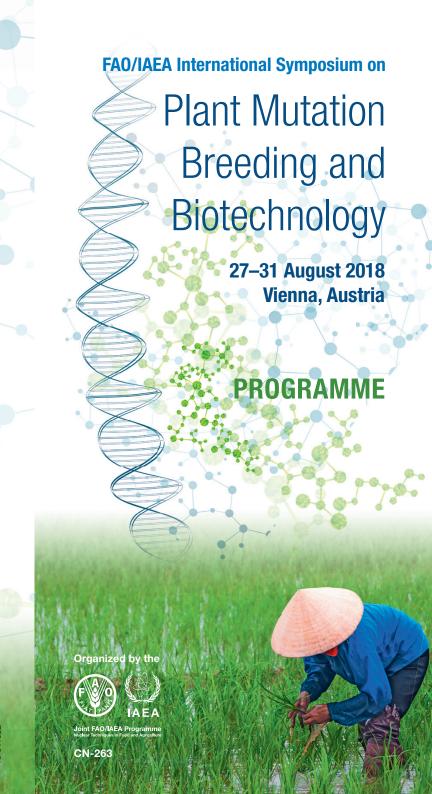
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### Location of the Symposium:

International Atomic Energy Agency Vienna International Center (VIC) Board Room B/M1 (Main Room) Room M2 (Parallel Sessions)

M Building

Wagramer Strasse 5 1400 Vienna, Austria Tel.: (+43) 1 2600 0

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Working Language: English

Resolutions: No resolutions may be submitted for

consideration on any subject; no votes

will be taken.

TIMETABL	E			29 August 2018	
Monday, 27 A	august 2018		ľ	Board Room B/M1)	
08:00	Registration	Gate 1	08:30-09:15	Wednesday Plenary Talk	
10:30-11:00	Distribution of Symposium Materia Opening Session	M Building Entrance al	09:20-10:30	Session 2 (cont'd)	Mutation Breeding for Adaptation to Climate Change in Seed Propagated
11:00-12:30	Plenary Session				Crops
12:30-13:30	Lunch Break		10:30-11:00	Coffee/Tea Break and Poster Viewing	
13:30-15:00	Session 1	Contribution and Impact of Mutant Varieties on Food Security	11:00-12:20	Session 2 (cont'd)	Mutation Breeding for Adaptation to Climate
15:00-15:30	Coffee/Tea Break	•			Change in Seed Propagated Crops
15:30-17:10	Session 1 (cont'd)	Contribution and Impact of Mutant Varieties on Food Security	12:20-13:30	Lunch Break and Poster Viewing	
17:10-17:40	Group Photo	,	13:30-14:50	Session 2 (cont'd)	Mutation Breeding for
18:00-20:00	Welcome Reception (M Building, Ground Floor)				Adaptation to Climate Change in Seed Propagated Crops
Tuesday, 28	August 2018		14:50-15:20	Coffee/Tea Break and Poster Viewing	
08:30-09:15	Tuesday Plenary Talk		15:20-16:40	Session 3	Enhancing Agricultural Biodiversity Through New Mutation Induction
09:20-10:30	Session 2	Mutation Breeding for Adaptation to Climate Change in Seed Propagated Crops	16:40-17:10	Removal of posters of posters for session	Techniques for session 2 and placement ons 1, 3, 4, and 5
10:30-11:00	Coffee/Tea Break and Poster Viewing		Wednesday,	29 August 2018	
11:00-12:20	Session 2 (cont'd)	Mutation Breeding for	(Parallel Sess	sions in Room M2)	
		Adaptation to Climate Change in Seed Propagated Crops	09:20-10:30	Session 4	Mutation Breeding for Ornamental and Vegetatively Propagated Crops
12:20-13:30	Lunch Break		10:30-11:00	Coffee/Tea Break	
13:30-14:50	Session 2 (cont'd)	Mutation Breeding for		and Poster Viewing	
		Adaptation to Climate Change in Seed Propagated Crops	11:00-12:40	Session 4 (cont'd)	Mutation Breeding for Ornamental and Vegetatively Propagated Crops
14:50-15:20	Coffee/Tea Break and Poster Viewing		12:40-13:30	Lunch Break and Poster Viewing	
15:20-16:20	Session 2 (cont'd)	Mutation Breeding for Adaptation to Climate Change in Seed Propagated Crops	16:00-17:00	Mutation Breeding Network	
16:20-17:20	Poster Viewing				

Thursday, 30 A (Sessions in B	August 2018 Soard Room B/M1)	
08:30-09:15	Thursday Plenary Talk	
09:20-10:30	Session 5	New Challenges and Technologies in Plant Genomics and Breeding
10:30-11:00	Coffee/Tea Break and Poster Viewing	
11:00-12:20	Session 5 (cont'd)	New Challenges and Technologies in Plant Genomics and Breeding
12:20-13:30	Lunch Break and Poster Viewing	
13:30-14:50	Session 3 (cont'd)	Enhancing Agricultural Biodiversity Through New Mutation Induction Techniques
14:50-15:50	Coffee/Tea Break and Poster Viewing	
15:50-16:50	Panel Discussion	Current Challenges and Future Vision for Mutation Breeding
Thursday, 30 A		
(Parallel Sessi	on in Room M2)	
09:20-10:40	Session 3 (cont'd)	Enhancing Agricultural Biodiversity Through New Mutation Induction Techniques
10:40-11:00	Coffee/Tea Break and Poster Viewing	
11:00-12:20	Session 3 (cont'd)	Enhancing Agricultural Biodiversity Through New Mutation Induction Techniques
12:20-13:30	Lunch Break and Poster Viewing	

Friday, 31 August 2018							
08:30-10:00	Session 5	New Challenges and Technologies in Plant Genomics and Breeding					
10:00-11:00	Coffee/Tea Break and Poster Viewing	1					
11:00-12:40	Session 5 (cont'd)	New Challenges and Technologies in Plant Genomics and Breeding					
13:00-13:15	Closing Session						
13:15	Removal of posters	•					
Posters will be presented in the common area on the first floor (M1):							

Posters for Session 2 will be presented from Tuesday, 28 August to Wednesday, 29 August 2018.

Posters for Sessions 1, 3, 4 and 5 will be presented from Thursday, 30 August to Friday, 31 August 2018.

Commercial exhibits will be displayed in the common areas on the ground floor (M0E) and the first floor (M1) from Monday to Friday, 27 to 31 August 2018.

MONDAY, 27	AUGUST 2018	
08:00	Registration and Distribution of Symposium Materials	
10:30-11:00	OPENING SESSION	
	Aldo Malavasi Deputy Director General, IAEA	Welcome address and opening remarks
	Hans Martin Dreyer Director, Plant Production and Protection Division (AGP), FAO	Welcome address
	<b>Qu Liang</b> Director, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture	Welcome address
11:00-12:30	PLENARY SESSION	
Chair: Co-Chair:	Chikelu Mba, FAO Sobhana Sivasankar, FAO/IAEA	
	Name Designating Member State/Organization	Title of Paper
11:00-11:45	Perry Gustafson USA	World Food Supply Improvement: Problems and Prospects
11:45-12:30	Qu Liang FAO/IAEA	Plant Mutation Breeding – History, Challenges and Future Vision
12:30-13:30	Lunch Break	

MONDAY, 27	7 AUGUST 2018		
13:30-15:00	SESSION 1: Contribution and Varieties on Foo	Impact of Mutant d Security (IMV)	
Chair:	Chikelu Mba, FA	O	
Co-Chair:	Sobhana Sivasaı	nkar, FAO/IAEA	
	Name	Designating Member State/Organization	Title of Paper
13:30-14:00	Udda Lundqvist	Sweden	Scandinavian Mutation Research During the Last Ninety
	Keynote Speaker		Years – A Historical Review
14:00-14:20	Hitoshi Nakagawa	Japan	History of Mutation Breeding and Molecular Research Using Induced Mutations in Japan
14:20-14:40	Ham Le Huy	Viet Nam	Impact of Mutation Breeding to Food Security in Viet Nam
14:40-15:00	Jianwei Zhang	China	Achievements and Research Progress of Mutation Breeding of Wheat in Henan Province
15:00-15:30	Coffee / Tea Brea	k and Poster Viewing	
15:30-17:10	SESSION 1 (cont	d):	
	Contribution and Varieties on Food	Impact of Mutant I Security (IMV)	
Chair:	Chikelu Mba, FAC	)	
Co-Chair:	Sobhana Sivasan	kar, FAO/IAEA	
	Name	Designating Member State/Organization	Title of Paper
15:30-15:50	Mirza Mofazal Islam	Bangladesh	High Yielding NERICA Mutant Rice for Upland Areas and Hope for Bangladeshi Farmers
15:50-16:10	Ruslibin Ibrahim	Malaysia	Impact of Mutant Varieties in Malaysia: Challenges and Future Perspective of Mutation Breeding
16:10-16:30	Thao Le Duc	Viet Nam	Soybean Breeding Through Induced Mutation in Viet Nam
16:30-16:50	Malathy Parasuraman	Sri Lanka	Application of Mutation Techniques in the Development of Green Crop Varieties in Sri Lanka: Way Forward
16:50-17:10	Vikash Kumar	India	Mutation Breeding in Rice for Sustainable Crop Production and Food Security in India
17:10-17:40	Group Photo		
18:00-20:00	Welcome Recept	tion	M Building – Ground floor

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TUESDAY, 2	8 AUGUST 2018		
08:30-09:15	TUESDAY PLENARY TALK		
Chair: Co-Chair:	Ruslibin Ibrahim, Ljupcho Jankulos	•	
	Name	Designating Member State /Organization	Title of Paper
08:30-09:15	Jacob Mignouna	CGIAR	African Perspective on the Future of Food & Agriculture Including Role of Crop Improvement
09:20-10:30	SESSION 2:		
	Mutation Breedin Climate Change i Crops (SPC)	g for Adaptation to n Seed Propagated	
Chair:	Ruslibin Ibrahim,	Malaysia	
Co-Chair:	Ljupcho Jankulos	ski, FAO/IAEA	
	Name	Designating Member State/Organization	Title of Paper
09:20-09:50	Miriam Szurman- Zubrzycka Keynote Speaker	Poland	TILLING as a Renewable Source of Mutations for Functional Genomics and Practical Breeding
09:50-10:10	José Leitão	Portugal	Mutation Breeding for Powdery Mildew Resistance in Pea ( <i>Pisum sativum</i> L.)
10:10-10:30	Diaga Diouf	Senegal	Developing New Cowpea Varieties Obtained by Using Gamma Irradiation Induction
10:30-11:00	Coffee/Tea Break	and Poster Viewing	
11:00-12:20	SESSION 2 (cont'	d):	
		g for Adaptation to n Seed Propagated	
Chair:	Ruslibin Ibrahim,	Malaysia	
Co-Chair:	Ljupcho Jankulos	ki, FAO/IAEA	
	Name	Designating Member State/Organization	Title of Paper
11:00-11:20	Suman Bakshi	India	Isolation and Characterisation of Yellow Rust Resistant Mutation in Wheat
11:20-11:40	Antonio Costa De Oliveira	Brazil	Identification of Rice Mutants Tolerant to Cold Stress at the Germination Stage By Tilling
11:40-12:00	Soeranto Human	Indonesia	Mutation Breeding of Sorghum to Support Climate Smart Agriculture
12:00-12:20	Leila Bagheri	Iran, Islamic Republic of	Production of Haploid Embryos and Plants in Iranian Melon ( <i>Cucumis melo</i> L.) through Irradiated Pollen-Induced Parthenogenesis
12:20–13:30	Lunch Break		

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TUESDAY, 2	8 AUGUST 2018		
13:30-14:50	SESSION 2 (cont'd):  Mutation Breeding for Adaptation to Climate Change in Seed Propagated Crops (SPC)		
Chair: Co-Chair:	Ashwani Pareek, Fatma Sarsu, FA0		
	Name	Designating Member State/Organization	Title of Paper
13:30-13:50	Zerihun Tadele	Switzerland	Application of Mutation Breeding to The Improvement of Understudied Crop Tef
13:50-14:10	Manzoor Hussain	Pakistan	Improving Sustainable Cotton Production through Enhanced Resilience to Climate Change Using Mutation Breeding
14:10-14:30	Kalaluka Munyinda	Zambia	Creating Variability in Cowpea for Adaptation and Value Addition through Induced Mutation
14:30-15:20	Coffee / Tea Break	k and Poster Viewing	
15:20-16:20		'd): g for Adaptation to n Seed Propagated	
Chair: Co-Chair:	Ashwani Pareek, Fatma Sarsu, FA0		
	Name	Designating Member State/Organization	Title of Paper
15:20-15:40	Vanniarajan Chockalingam	India	Isolation of Gamma Ray Induced URD Bean ( <i>Vigna mungo</i> (L.) Hepper) Mutants with Increased Batter Volume
15:40-16:00	Cuma Akinci	Turkey	A New Mutant Barley ( <i>Hordeum vulgare</i> L.) Cultivar Registered in Turkey
16:00-16:20	Lydia Ndinelao Horn	Namibia	Genotype-by-environment Interaction of Elite Varieties of Cowpea Derived through Mutagenesis
16:20-17:20	Poster Viewing (M	Building, 1st Floor)	

WEDNESDA	Y, 29 AUGUST 20	018	
(Sessions in	Board Room B/	M1)	
08:30-09:15 WEDNESDAY PLENARY TALK			
Chair:	Perry Gustafson,	USA	
Co-Chair:	Ivan Ingelbrecht,	FAO/IAEA	
	Name	Designating Member State/Organization	Title of Paper
08:30-09:15	Chikelu Mba	FAO	Emerging Biotechnologies and the Conservation and Sustainable Use of Plant Genetic Resources for Food and Agriculture
09:20-10:30	SESSION 2 (cont'	d):	
	Mutation Breeding Climate Change in Crops (SPC)	g for Adaptation to n Seed Propagated	
Chair:	Perry Gustafson,	USA	
Co-Chair:	Ivan Ingelbrecht,		
	Name	Designating Member State/Organization	Title of Paper
09:20-09:50	Luxiang Liu	China	New Mutation Techniques for Crop Improvement in China
	Keynote Speaker		
09:50-10:10	Shiqiang Chen	China	Establishment of Wheat - <i>Thinopyrum elongatum</i> 7e Chromosome Translocation Lines with Fusarium Head Blight Resistance by Radiation
10:10-10:30	Mohammad Abul Kalam Azad	Bangladesh	Development of Climate Change Adaptable/Resilient Crop Varieties through Nuclear Techniques
10:30-11:00	Coffee/Tea Break	and Poster Viewing	

WEDNESDA	Y, 29 AUGUST 20	018	
11:00-12:20	SESSION 2 (cont'd): Mutation Breeding for Adaptation to Climate Change in Seed Propagated Crops (SPC)		
Chair: Co-Chair:	Perry Gustafson, Ivan Ingelbrecht,		
	Name	Designating Member State/Organization	Title of Paper
11:00-11:20	Vichai Puripunyavanich	Thailand	Anthracnose Resistance Induction in Chili by Electron Beam Irradiation
11:20-11:40	Nasya Tomlekova	Bulgaria	Induced Mutagenesis for Bean ( <i>Phaseolus vulgaris</i> L.) Production Improvement in Bulgaria
11:40-12:00	Luz Gomez - Pando	Peru	Mutation Induction in Improving Resistance to Downy Mildew in Quinoa ( <i>Chenopodium quinoa</i> )
12:00-12:20	Marzena Kurowska	Poland	Barley Mutant in HvSNAC1 (Stress-Responsive NAC 1) Generated Through TILLING Strategy Shows Increased Tolerance to Drought and Oxidative Stress
12:20-13:30	Lunch Break and I	Poster Viewing	
13:30-14:50		d): g for Adaptation to n Seed Propagated	
Chair: Co-Chair:	Bradley J.Till, US Norman Warthma		
	Name	Designating Member State/Organization	Title of Paper
13:30-13:50	Shamsun Nahar Begum	Bangladesh	Development of First Kabuli Type Chickpea Mutant Variety in Bangladesh
13:50-14:10	Mirjana Jankulovska	Macedonia, The former Yugoslav Republic of	Evaluation of Advanced Wheat Mutant Lines for Food and Feed Quality
14:10-14:30	Sarvjeet Singh	India	Induced Variation for Post-Emergence Herbicide Tolerance in Lentil
14:30-14:50	Mohd Rafii Yusop	Malaysia	Application of Mutation Techniques and Genotype × Environment Interaction for Grain Yield and Yield Components of Ion Beam Induced Mutant Rice Lines Tested in Multiple Locations in Malaysia
14:50-15:20	Coffee / Tea Break	k and Poster Viewing	

WEDNESDA	Y, 29 AUGUST 20	18		
15:20-16:40	Through New Muta	SESSION 3: Enhancing Agricultural Biodiversity Through New Mutation Induction Techniques (MTB)		
Chair:	Nicolas Roux, CGI	IAR		
Co-Chair:	Fatma Sarsu, FAO	/IAEA		
	Name	Designating Member State/Organization		Title of Paper
15:20-15:40	Alberto Raul Prina Keynote Speaker	Argentina		The Success of IMI Tolerant Rice Varieties in Latin America
15:40-16:00	Alejandra Landau	Argentina		The Barley Chloroplast Mutator (cpm) Mutant is an Extraordinary Source of Plastome Variability
16:00-16:20	Huijun Guo	China		A Large Capacity Wheat Resource with Broad Mutation Spectrum and Novel Allele Identification by TILLING Approach
16:20-16:40	Rubens Marschalek	Brazil		Gamma Rays Application in the Development of Rice Lines Tolerant to Aryloxyphenoxypropionate Herbicides
	Removal of Posters placement of Poster and 5			

Y, 29 AUGUST 20 <sup>-</sup>	18		
ssions in Room M2	2)		
SESSION 4:			
Mutation Breeding and Vegetatively P (VPC)	for Ornamental ropagated Crops		
Name			Title of Paper
Nicolas Roux Keynote Speaker	CGIAR		Somaclonal Variation: Containing the Bad While Exploring the Good
Sunil Dalvi	India		Ems Induced <i>In Vitro</i> Mutagenesis for Abiotic and Biotic Stress Tolerance, and Isolation of Morphologically and Biochemically Distinct Phenotypes in Sugarcane
Behnam Naserian Khiabani	Iran, Islamic Republic of		In Vitro Mutation Breeding and Selection for Resistance to Fusarium Wilt in Banana
Coffee/Tea Break a	nd Poster Viewing		
	SESSION 4:  Mutation Breeding and Vegetatively P (VPC)  Madeleine Spence Stephan Nielen, FA  Name  Nicolas Roux Keynote Speaker Sunil Dalvi  Behnam Naserian Khiabani	Mutation Breeding for Ornamental and Vegetatively Propagated Crops (VPC)  Madeleine Spencer, FAO/IAEA  Stephan Nielen, FAO/IAEA  Name  Designating Member State/Organization  Nicolas Roux CGIAR Keynote Speaker Sunil Dalvi  India  Behnam Naserian  Iran, Islamic	SESSION 4:  Mutation Breeding for Ornamental and Vegetatively Propagated Crops (VPC)  Madeleine Spencer, FAO/IAEA Stephan Nielen, FAO/IAEA  Name  Designating Member State/Organization  Nicolas Roux Keynote Speaker Sunil Dalvi  Behnam Naserian Iran, Islamic Republic of

WEDNESDA	Y, 29 AUGUST 20 <sup>-</sup>	18	
(Parallel Ses	sions in Room M2	2)	
11:00-12:40	SESSION 4 (cont'd):  Mutation Breeding for Ornamental and Vegetatively Propagated Crops (VPC)		
Chair:	Madeleine Spence	r, FAO/IAEA	
Co-Chair:	Stephan Nielen, FA	AO/IAEA	
	Name	Designating Member State/Organization	Title of Paper
11:00-11:20	Subodh Kumar Datta	India	Induced Mutations - Technological Advancement for Development of New Ornamental Varieties
11:20-11:40	Ayşe Nilgun Atay	Turkey	Radiosensitivity and Preliminary Results in Mutation Breeding of 'Amasaya' Apple Cultivar
11:40-12:00	Rodrigo Rocha Latado	Brazil	Induction and Selection of Mandarin Mutants with Fruits Containing Low Number of Seeds
12:00-12:20	Dayani Karunananda	Sri Lanka	<sup>60</sup> Co Gamma Irradiation-Induced Variations in Vegetatively Propagated <i>Philodendron erubescens</i> 'Gold'
12:20-13:30	Lunch Break and Po	oster Viewing	
16:00-17:00	Mutation Breeding N	letwork	

THURSDAY,	30 AUGUST 2018	3	
(Sessions in	Board Room B/I	M1)	
08:30-09:15 THURSDAY PLENARY TALK			
Chair: Co-Chair:	Qingyao Shu, Chi Norman Warthma		
	Name	Designating Member State/Organization	Title of Paper
08:30-09:15	Tomoko Abe	Japan	Ion-Beam Mutagenesis – An Innovative and Effective Method for Plant Breeding and Gene Discovery
09:20-10:30		and Technologies in and Breeding (CGB)	
Chair: Co-Chair:	Qingyao Shu, Chi		
CO-Citair.	Norman Warthma	Designating Member State/Organization	Title of Paper
09:20-09:50	Peter Gresshoff Keynote Speaker	Australia	Soybean Nodulation: From Gene Mutation, via Gene Isolations to Functional Circuits
09:50-10:10	Christian Wagner	Austria	High-resolution Mapping of Wheat Chromosome Arm 5AS Harbouring the Fusarium Head Blight Resistance QTL Qfhs.ifa-5A
10:10-10:30	Akemi Shimizu	Japan	Whole Genome Sequencing of Rice Mutants Induced by Gamma Rays and Ion Beams
10:30–11:00	Coffee/Tea Break	and Poster Viewing	

THURSDAY	, 30 AUGUST 201	8	
11:00-12:20	SESSION 5 (cont'd):  New Challenges and Technologies in Plant Genomics and Breeding (CGB)		
Chair: Co-Chair:	Qingyao Shu, Ch Norman Warthma		
	Name	Designating Member State/Organization	Title of Paper
11:00-11:20	Trude Schwarzacher	UK	Exploiting Mutations in the Era of Genomics and Genome Engineering
11:20-11:40	Yanzhou Xie	China	Rapid Mapping and Cloning the Chlorina Mutant Gene (vn- A1) in Wheat by Bulked Segregant Analysis and 660K SNP Chip
11:40-12:00	Bradley J. Till	USA	Genomics Tools to Facilitate Plant Mutation Breeding
12:00-12:20	Stanislav Geras'kin	Russian Federation	Using Ionizing Radiation for Improving the Development and Yield of Agricultural Crops
12:20-13:30	Lunch break & Po	ster Viewing	
13:30-14:50	SESSION 3:		
	Enhancing Agricultural Biodiversity Through New Mutation Induction Techniques (MTB)		
Chair: Co-Chair:	Liu Luxiang, China Abdelbagi Mukhtar Ali Ghanim, FAO/IAEA		
	Name	Designating Member State/Organization	Title of Paper
13:30-13:50	Chenguang Zhou	Germany	Impact of Cross-Breeding on the Metabolite Signature Resulting from the OsSULTR3;3 Mutation in Low Phytic Acid Rice Seeds
13:50-14:10	Young Dueg Cho	Korea, Republic of	Development and Screening of Genetic Variants on Radiation Mutation Techniques for Breeding and Functional Genomics Study in Pepper
14:10-14:30	Yoshihiro Hase	Japan	Mutagenic Effects of Ion Beams and Development of Efficien Mutagenesis Techniques
14:30-14:50	Yongdun Xie	China	A Featured Stem Development Pattern is Displayed in the Winter Wheat Mutant Generated by Heavy-ion Beam Mutagenesis
14:50-15:50	Coffee/Tea Break	and Poster Viewing	

# THURSDAY, 30 AUGUST 2018

15:50-16:50 PANEL DISCUSSION:

**Current Challenges and Future Vision** 

for Mutation Breeding

Chair: Perry Gustafson, USA

Chickelu Mba, FAO Qingyao Shu, China Yoshihiro Hase, Japan Peter Gresshoff, Australia Antonio de Oliveira, Brazil

THURSDAY,	, 30 AUGUST 2018			
(Parallel Sessions in Room M2)				
09:20-10:40 SESSION 3:				
	Enhancing Agricul Through New Muta Techniques (MTB)	ation Induction		
Chair: Co-Chair:	Hiroshi Kato, Japa Ivan Ingelbrecht, F			
		Designating Member State/Organization		Title of Paper
09:20-09:40	Fatemeh Maghuly	Austria		Creation and Characterization of an EMS Mutant Population of Jatropha curcas
09:40-10:00	Amitha C Mithra Sv	India		National Repository of Rice EMS Mutants of an Upland Rice Cultivar Nagina 22: Progress Update on Characterization and Utilization
10:00-10:20	Souframanien Jegadeesan	India		Radiation Induced Mutations in Genetic Enhancement and Development of New Crop Varieties in Black Gram [Vigna mungo (L.) Hepper]
10:20-10:40	Abdulwahid Saif	Yemen		Development of New Bread Wheat Resistant Mutants for Ug99 Rust Disease ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> )
10:40-11:00	Coffee/Tea Break a	nd Poster Viewing		
11:00-12:20	SESSION 3 (cont'd):			
	Enhancing Agricul Through New Muta Techniques (MTB)	ation Induction		
Chair: Co-Chair:	Stephan Nielen, FA Madeleine Spence			
		Designating Member State/Organization		Title of Paper
11:00-11:20	Noël Arrieta	Costa Rica		Determination of Radio-sensitivity of Coffee Arabica Var. Venecia Seeds to Gamma Ray Irradiation
11:20-11:40	Andres Gatica- Arias	Costa Rica		Application of Chemically Induced Mutations Using Embryogenic Cell Suspensions and Seeds for Crop Protection of Coffee ( <i>Coffea arabica</i> L.) Varieties in Costa Rica
11:40-12:00	Yonis Alberto Morales Reyes	Honduras		Virulence Genes of New Race of Rust ( <i>Hemileia vastatrix</i> ) Affecting Variety of Lempira Coffee in Honduras, Resistant and Susceptible Varieties
12:00-12:20	Souleymane Bado	Austria		Mutagenesis of <i>In Vitro</i> Explants of <i>Coffea arabica</i> to Induce Fungal Resistance
12:20-13:30	Coffee/Tea Break a	nd Poster Viewing		

FRIDAY, 31	AUGUST 2018		
08:30-10:00	SESSION 5: New Challenges Plant Genomics	and Technologies in and Breeding (CGB)	
Chair: Co-Chair:	Brian Forster, Uk Abdelbagi Mukht FAO/IAEA		
	Name	Designating Member State/Organization	Title of Paper
08:30-09:00	Qingyao Shu Keynote Speaker	China	Mutation Induction and Genome Editing in Plant Breeding: Comparative Advantages and Perspectives
09:00-09:20	Ashwani Pareek	India	'Gain-of-function' Mutants for Gene Discovery and Functional Genomics for Multiple Stress Tolerance in Rice
09:20-09:40	Libin Zhou	China	Comparative Study of Mutations Induced by Carbon-ion Beam and Gamma Ray Irradiations in <i>Arabidopsis thaliana</i> at the Genome-wide Scale
09:40-10:00	Feng Li	Japan	Identification of a Novel Locus SH2 for Seed Shattering in Rice ( <i>Oryza sativa L.</i> ) by Combining Bulked Sergeant Analysis with Whole Genome Sequencing
10:00-11:00	Coffee/Tea Break	and Poster Viewing	

FRIDAY, 31 A	AUGUST 2018		
11:00-12:40	SESSION 5 (cont'd): New Challenges and Technologies in Plant Genomics and Breeding (CGB)		
Chair: Co-Chair:	Brian Forster, UK Abdelbagi Mukhta FAO/IAEA		
	Name	Designating Member State/Organization	Title of Paper
11:00-11:20	Hiroshi Kato	Japan	Development of New Rice Mutation Breeding Method for the Selection of Higher Yield Physiological Mutants
11:20-11:40	Sebastian Schultheiss	Germany	The Power of Next-generation Sequencing in Rapidly Identifying (epi) Genetic Causal Mutations
11:40-12:00	Shashi Choudhary	India	Gamma Ray Induced Pedigreed Mutant Population of Tossa Jute ( <i>Corchorus olitorius</i> L.): A Key Resource for Forward and Reverse Genetics
12:00-12:20	Meriem Laouar	Algeria	Early Assessment of Lentil and Chickpea Mutant and Evaluation of Low Cost Tilling on M2 Chickpea
12:20-12:40	Vasilissa Manova	Bulgaria	Effects of Light and UV-C Radiation on the Transcriptional Activity of COP1 And HY5 Gene Homologues in Barley
13:00-13:15	CLOSING SESSIO	ON .	

# **POSTERS RELATED TO SESSIONS:**

- (1) Contribution and Impact of Mutant Varieties on Food Security
- (2) Mutation Breeding for Adaptation to Climate Change in Seed Propagated Crops
- (3) Enhancing Agricultural Biodiversity through New Mutation Induction Techniques
- (4) Mutation Breeding for Ornamental and Vegetatively Propagated Crops
- (5) New Challenges and Technologies in Plant Genomics and Breeding

POSTERS R	ELATED TO SES	SION 1	
CONTRIBUTION AND IMPACT OF MUTANT VARIETIES ON FOOD SECURITY These posters will be displayed from Thursday to Friday in			
the Poster Area	on M1		
No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
18	Reza Mohammad Emon	Bangladesh	Selection of Promising Soybean Mutants Through Multi- Location Trials
57	Md. Abdul Malek Shubiao Zhang	China	The Breeding of Glutinous Hybrid Rice
69	Andres Gatica- Arias Griselda Arrieta- Espinoza Mónica Villalobos- Flores William Watson- Guido	Costa Rica	Genetic Variability Induction in Rice Through Mutagenesis: An Alternative to Mitigate Climate Change and Promote Food Security in Costa Rica
101	Xuzhen Cheng Lixia Wang Suhua Wang	China	Development of New Varieties Using Space Induced Mutation
159	Fernando Aurigue	Philippines	Mutant Varieties Developed in the Philippines
170	Dhanasekar Punniyamoorthy Sreenivasulu Kandali Reddy	India	Development of Trombay Cowpea Variety 'Tc-901' Amenable for Summer Cultivation by Induced Mutagenesis
190	<b>Ulrike Gartner</b> Vivian Blok	UK	Irradiation of the Potato Solanum tuberosum Cv. Desirée to Investigate Resistance to the Potato Cyst Nematode Globodera pallida
267	Mirjana Jankulovska Sonja Ivanovska Biljana Kuzmanovska Dane Boshev Ljupcho Jankuloski Mile Markoski	Macedonia, Former Yugoslav Republic of	Agronomic Performance of Wheat Mutant Lines for Food and Feed Quality on Farmer's Fields

# **POSTERS RELATED TO SESSION 2**

MUTATION BREEDING FOR ADAPTATION TO CLIMATE CHANGE IN SEED PROPAGATED CROPS

These posters will be displayed from Tuesday to Wednesday In the Poster Area on M1

No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	Title of Poster
5	Sonia Mejri Mouldi Saidi Omrane Belhadj Yassine Mabrouk	Tunisia	Improving Faba Bean Crop for Biotic Stress Resistance through Mutation Breeding Using Gamma Irradiation Technique
8	<b>Ishak Ishak</b> Aryanti Aryanti	Indonesia	Genetic Diversity and Molecular Characterization of Xa-5 and Xa-21 in Aromatic Rice Mutant Lines Derived from Irradiated Gamma Rays
9	Mohammad Reza Rahemi Ahad Yamchi Hasan Soltanloo Peter Roepstorff Saeid Navabpour	Iran, Islamic Republic of	Baking Quality Improvement in Wheat Flour by Physical Mutagenesis
10	Yassine Mabrouk Kamel Charaabi Mouldi Saidi Omrane Belhadi	Tunisia	Induced Mutation Through Gamma Radiation in Pea (Pisum Sativum L.): Developmental Changes and Improved Resistance to Broomrape ( <i>Orobanche crenata</i> )
11	Yassine Mabrouk Kamel Charaabi Martina Rickauer Mahiout Djamel Omrane Belhadj	Tunisia	Creating New Mutants of Chickpea Resistant to Ascochyta rabiei Using Gamma Radiation.
12	Md. Farid Uddin Dana Jawdat Khin Myat Lwin Ljupcho Jankuloski Malek Massoud Manzoor Hussain <b>Md. Kamrul Islam</b> Mohammad Reza Rahemi Tianzhen Zhang		Adaptation of Mutation Breeding for Enhancing Cotton Resilience to Climate Change in Bangladesh
14	Reza Mohammad Emon	Bangladesh	Morpho-Genetic Screening of the Promising Rice Genotypes Under Salinity Stress

No. of Poster IAEA-CN-263	Name [	Designating Member State/Organization	Title of Poster
17	Kanchana Klakhaeng Fatma Sarsu	Thailand	Improving Submergence Tolerance in Thai Rice Using Electron Beam Induced Mutations
21	Udompan Promnart <b>Leila Bagheri</b> Ali Eskandari Alireza Nabipour Allahyar Fallah Azam Borzouei Ebrahim Moghiseh Hossein Elyasi	Iran, Islamic Republic of	Improvement of Iranian Rice Varieties for Salinity Tolerance Through Mutation Approach
25	R.M.N.H. Senanayake A.A.P.G. Amarasingha D.G.K.P. Wijerathna H.M.V.G. Herath I.P. Wickramesinghe U.A.K.S. Udawela	Sri Lanka	Assessment of Allelic Variation Among Newly Improved Rice Varieties at Saltol Region in Sri Lanka
29	Aryanti Aryanti Ishak Ishak	Indonesia	Evaluation of Drought Tolerance Rice Mutant Lines and Identification Using SSR Markers
35	Khin Myat Lwin Aye Aye Thwe San Thandar Than Than Nu	Myanmar	Agronomic Morphological Study of Selected Irradiated Cotton Variety During M₃ Generation
44	S. Muniswamy Rachappa Haveri	India	Improvement of Resistance to Killer Wilt Disease Through Induced Mutations in Land Races of Pigeonpea ( <i>Cajanus cajan</i> (L.) Millsp.)
45	Adel Elmaghrabi Abdulmunam Fellah Elmundr Abughnia	Libya	Evaluation of the SERKs Family Genes and Yield of Some Barley Induced Lines Using Gamma Rays for Drought Tolerance
53	Kumuduni Senarathne Menike Dhammika Wickrama Arachchige Rohini	Sri Lanka	Genetic Diversity of Selected Capsicum Accessions Derived Through Morphological and Molecular Characterization
59	Linshu Zhao Huijun Guo Jiayu Gu Yongdun Xie Junhui Li Luxiang Liu Shirong Zhao Yuping Ding Ziwei He	China	Establishment of a High Efficiency Anther Culture System in Winter Wheat

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
62	Chengxi Jiang Yashu Fu	China	Development of a Novel Soybean Cultivar Suinong 44
72	Akemi Shimizu Feng Li Hiroshi Kato Sayaka Niwa	Japan	Gamma-Ray Induced Mutation Breeding for Speedy Rice Improvements
77	Nizar Mir Ali Bassam Al-Safadi Dana Jawdat Hussam Al-Faouri Ola Moustafa	Syria	Testing M <sub>8</sub> Advanced Barley Mutant Lines for Maturity, Lodging Resistance and Yield Improvement
79	Mehran Enayati Shariatpanahi Samira Tajedini Abdelbagi Mukhtar Ali Ghanim Baratali Fakheri Mahnaz Oroojloo Nafiseh Mahdinejad	Iran, Islamic Republic of	Haploidy in Rice ( <i>Oryza sativa</i> L.) Mutation Breeding for Striga Resistance
81	Bindeshwar Prasad Sah Binesh Man Sakha <b>Dil Raj Yadav</b> Rajib Kumar Yadav	Nepal	Improvement of Popular Nepalese Rice Varieties Through Mutation Breeding
82	Mehran Enayati Shariatpanahi Samira Tajedini Mukhtar Ali Ghanim Baratali Fakheri Mahnaz Oroojloo Nafiseh Mahdinejad	Iran, Islamic Republic of	Enhancing Efficiency of Mutation Breeding for Striga Resistance in Sorghum by Haploid Technology
83	Dana Jawdat Aghyad Saleh Khin Myat Lwin Ljupcho Jankuloski Manzoor Hussain Massoud Malek Md. Kamrul Islam Mohammad Al-Ali Nowrez Taheir Tianzhen Zhang	Syria	Evaluation of Two Advanced Cotton Mutant Lines in a Different Climatic Area from Their Geographic Origin

No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	Title of Poster
91	M. Ilhan Cagirgan	Turkey	Close Sesame: Merely Magic or an Efficient Scientific Technique?
93	Mehran Enayati Shariatpanahi Hamed Ebrahimzadeh	Iran, Islamic Republic of	Amino Acids and Cycocel Application to Enhance Cucumber Haploid Embryogenesis with Gamma Irradiated Pollen
	Ali Eskandari Behzad Ahmadi Mohsen Niazian	lan a	Courts (IMI) and Marcala Harles Provide Classes
95	Shatha Yousif Maha Taeen Nora Abid Tagreed Abduljabar	Iraq	Growth of Wheat Mutants Under Drought Stress
96	Faiz Ahmad Abdul Rahim Harun Affrida Abu Hassan Ahmad Nazrul Abd Wahid Mohd Noor Hidayat Adenan Mohd Zulmadi Sani Mustapha Akil Zaiton Ahmad	Malaysia	Improvement of Kenaf ( <i>Hibiscus cannabinus</i> L.) Through Gamma Ray Induced Mutation
97	Yuliasti Yuliasti Reflinur Reflinur	Indonesia	Genetic Diversity Fourteen Soybean Mutant Lines Using SS Markers and Yield Performance Under Dry Land Condition
99	Ali Eskandari Azam Borzouie Saeed Soufizadeh Sorayya Navid	Iran, Islamic Republic of	Investigating Yield and Yield Components of 14 Control and Gamma-Irradiated Barley ( <i>Hordeum vulgare</i> L.) Cultivars in the Temperate Zone in Iran
105	Habibah Al- Menai Merlena Babu Nisha Aneesh Ouhoud Al-Ragam	Kuwait	Implementation of Mutation Induction to Improve Barley Production
107	Abdullah Al- Shatti Habibah Al-Menai Ouhoud Al-Ragam	Kuwait	Evaluation of Some Barley Mutant Lines in Kuwait
109	Ravi Seewoogoolam Rita Devi Nowbuth	Mauritius	Determination of 50% Growth Reduction Dose (GR50) of Gamma Irradiation for Local Landraces of Cauliflower ( <i>Brassica oleracea</i> Var. Botrytis) and Cabbage ( <i>Brassica oleracea</i> Var. Capitata) in Mauritius

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
111	Banumaty Saraye Bradley J. Till Joanna Beata Jankowicz-Cieslak Rita Devi Nowbuth Sabinaz Peerboccus	Mauritius	Induced Genetic Variability for Yield and Heat Tolerance in Tomato (Solanum lycopersicum L.)
113	Prince M. Matova Collis Mukunguritse Dumisani kutywayo Edmore Gasura Fatma Sarsu Hussein Shimelis Onismus Chipfunde	Mauritius	A Decade of Progress in Cowpea Genetic Improvement Using Mutation Breeding in Zimbabwe
114	Marco Sinche- Serra José Velásquez Juan Aguilar- Aguilar Trajano Ramirez	Ecuador	Promising Lines of <i>Lupinus mutabilis</i> Sweet Derived from Mutation Induction with Ionizing Radiations
115	Annah Indetie Stephan Nielen	Kenya	Evaluation of <i>Brachiaria ruziziensis</i> and Brachiaria brizantha Mutants on Field Establishment, Diversity and Performance
116	Parmeshwar Sahu Parmeshwar Ashish Kumar Tiwari Ashish B.K. Das Bikram Deepak Sharma Deepak Samrath Baghel Samrath Satyapal Singh Satyapal Vikash Kumar Vikash	India	Radiation Based Induced Mutagenesis for Developing Nutritionally Enriched Rice Varieties
118	Manika Noi-lam Boonsirichai Kanokporn Kanchana Klakhaeng Vararas Khamvarn	Thailand	Induce Mutation for Early Maturity in Pathumthani 1 (Ptt1) Rice Variety

No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	Title of Poster
120	Myat Myat Minn Khine Khine Zar Linn	Myanmar	Development of Drought Tolerant Mutant Lines from Rice Variety Manawthukha Using Mutation Breeding Technique
121	Rita Devi Nowbuth Nema Cahoolessur Priya Huzar Futty Beejan Ravi Seewoogoolam	Mauritius	Application of Gamma Irradiation for the Improvement of Cauliflower, Cabbage and Carrot in Mauritius
122	Thanh Pham Hoan Nguyen	Viet Nam	Introgression of Blast Resistance Gene into Rice Cultivar BC15 Through Marker-Assisted Selection
132	Azri Kusuma Dewi Ita Dwimahyani Reflinur Basyirin	Indonesia	Yield Variation and Genetic Diversity Among Kewal Local Rice Mutant Lines from Indonesia Based on STS Markers
134	Sherly Rahayu Desta Wirnas Hajrial Aswidinnoor	Indonesia	Genetic Analysis and Correlation of Growth and Yield Components of Rice Mutant Lines Under Three Different Altitudes.
139	Freddy Bulubulu Otono Aimé Diamuini Ndofunsu	Congo, Dem.Rep.of	Increasing the Genetic Variability for the Improvement of Maize for Enhanced Tolerance to Drought and Nitrogen Stresses
141	Luz Gomez- Pando	Peru	Evaluation of Barley Mutant Varieties and Advanced Lines fo Food and Forage Production for the Highlands of Peru
143	Carmenza Munoz Florez Daniel Deobouck Idupulapati Rao Sarsu Fatma	Colombia	Developing Stress Tolerant Tepary Bean Through Mutation Breeding
144	Ayse Sen Necmi Beser	Turkey	Developing Mutant Rice Germplasm Combining Gamma Ray Mutagenesis with Doubled Haploidy in National and International Rice Breeding Programmes
146	<b>Kelvin Kamfwa</b> Kalaluka Munyinda	Zambia	Genetic Improvement of Common Bean ( <i>Phaseolus vulgaris</i> in Zambia

No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	Title of Poster
147	Sergio Ahumada Flores Cesiah de la Torre Amavizca Eulogio de la Cruz Torres Fannie Isela Parra Cota Luz Rayda Gómez Pando Sergio de los Santos Villalobos	Mexico	Improving Yield and Commercial Potential of Wheat for Heat Tolerance by Mutation Induction Techniques
148	Harimialimalala Jhonny Rabefiraisana Abdelbagi Mukhtar Ali Ghanim Alice Andrianjaka Berthe Rasoamampionon a Ljupcho Jankuloski Mbolatiana Alinà Razafindrasoa Nirina Hanitriniaina Ravelonjanahar Noronirina Victorine Rakotoarisoa	Madagascar	Impact of Mulch-Based Cropping Systems Using Green Mulch and Residues on the Performance of Advanced Mutants Lines of Maize (Zea mays (L.)) Under Infested Field with the Parasitic Weed Striga asiatica (L.) Kuntze in Madagascar

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
151	Noronirina Victorine Rakotoarisoa Abdelbagi Mukhtar Ali Ghanim Alice Andrianjaka Berthe Rasoamampionon a Harimialimalala Jhonny Rabefiraisana Ljupcho Jankuloski Xavier Roland Theophile Rakotonjanahary	Madagascar	Induced Mutation for Developing Mutant Rice Lines Tolerant to the Parasitic Weed Striga asiatica (L.) Kuntze
160	Nikhil Gaikwad Akash Ramtake Shitalkumar Desai Vinod Dhole	India	Gamma Rays, EMS and Sodium Azide Induced Genetic Variability for Quantitative Traits in Ajara Ghansal Non- Basmati Aromatic Rice
165	Dolgor Tsognamjil Myagmarsuren Yadamsuren	Mongolia	Mutation Breeding of Wheat for Food and Feed Purpose
167	<b>Dalila Ramla</b> Mohand-Said Yakhou Nassima Bilek	Algeria	High Yielding and Early Maturity Barley Mutant Line Obtained through <i>In Vitro</i> Radio-mutagenesis
171	Archana Joshi Saha Golu Misra Sreenivasulu Kandali Reddy	India	Mutation Breeding in Chickpea (Cicer arietinum L.) for Increased Genetic Variability, Improved Quality and Agronomic Traits
174	Aziz Salameh Ismail Hroub Ljupcho Jankuloski Rezq Basheer- Salimia Yamen Hamdan	Palestine	Induced Mutations in Durum Wheat ( <i>Triticum durum</i> ) for Improve Productivity Components Traits
177	Sruba Saha Amitava Paul Sanjay Jambhulkar	India	Spectrum Frequency and Segregating Pattern of Some Useful Macro Mutants in Sesame (Sesamum indicum L.) through Induced Mutation

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
188	Shamsun Nahar Begum Mirza Mofazzal Islam Rigyan Gupta	Bangladesh	Induced Mutagenesis for The Improvement of Green Shiny Colour Mungbean Variety
191	Tan Phuong Tran Quang Cua Ho Thi Thu Huong Nguyen	Viet Nam	Combination of Induced Mutation and Hybridization Methods for Rice Breeding
193	Shitalkumar Desai Akash Ramteke Nikhil Gaikwad Vinod Dhole	India	Effect of Gamma Rays, EMS and Sodium Azide on Quantitative Characters in Kala Jirga Non-Basmati Aromatic Rice ( <i>Oryza sativa</i> L.) Cultivar from Kolhapur India
197	Shivram Khadke Vijay Kothekar		Effect of EMS and SA on Trypsin Inhibitor Content in Moth Bean ( <i>Vigna aconitifolia</i> (Jacq.) Marechal)  Evaluation of New Cotton Mutant Cultivars for Adaptation to
200	Mohammad Reza Rahemi Ali Eskandari Ebrahim Moghiseh Kamran Mozaffari Ljupcho Jankuloski Manzoor Hussain Masoud Rahimi Massoud Malek Mohammad Amiripari Omran Alishah	Republic of	Climate Change in Iran
203	Yanina Arnaoudova Elena Topalova Valentina Valentina Velichka Todorova Veselina Nikolova	Bulgaria	High Temperature Effect on the Male Gametophyte and the Photosynthetic Activity of Two Capsicum annuum L. Cultivars
204	<b>Djibril Yonli</b> Hamidou Traore Nofou Ouedraogo Philippe Nikiema	Burkina Faso	Mutation Breeding for Resistance to Striga hermonthica (Del.) Benth. In Sorghum for Food Security in Burkina Faso

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
207	Ferhat Kızılgeçi Behiye Tuba Biçer Cuma Akıncı Mehmet Yıldırım Onder Albayrak	Turkey	Responses of Chickpea (Cicer arietinum L.) Genotypes Induced by Ethyl methanesulphonate (EMS)
213	Agata Daszkowska- Golec Anna Skubacz Iwona Szarejko Krzysztof Sitko Marek Marzec Marzena Kurowska Miriam Szurman- Zubrzycka Miroslaw Maluszynski Patrycja Gajewska	Poland	Barley Mutant Resources for Functional Analysis of Genes Involved in Response to Drought Stress
215	Mehmet Yıldırım Cuma Akinci Ferhat Kizilgeci Nafiz Sonmez Onder Albayrak Behiye Tuba Bicer		Effect of Gamma Irradiation on Some Characteristics of Durum Wheat ( <i>Triticum durum</i> L.)
221	Kenneth Danso Abdelbagi Mukhtar Ali Ghanim Daniel Dwarko Ljupcho Jankuloski Wonder Nunekpeku	Ghana	Dose Optimisation for Pollen and Embryos Irradiation Mutation Induction in Oil Palm
230	Faten Raad	Lebanon	Developing Wheat and Barley Local Landraces that are Resistant to Lodging with Reduced Stature and Longer Spike Using Nuclear Techniques in Lebanon
231	Siviengkhek Phommalath Chanthakhone Buoalaphanh Laer Homsengchan Phatsalakone Manivong Sontaya Phethavone	Lao PDR	Achievement of Rice Mutation Breeding in Lao PDR

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
234	Inderjit Singh KS Reddy Manpreet Kaur	India	Induction of New Genetic Variation Through Mutagenesis in Pigeon Pea
235	Lavanya Cherukupalli P. Duraimurugan P. Lakshmamma T. Manjunatha K.T. Ramya M. Santhalakshmi Prasad Senthilvel Senapathy A. Vishnuvardhan Reddy	India	Development of Leafhopper and Wilt Resistant Pistillate Line in Castor through Mutation Breeding
236	Andrew Sarkodie Appiah Fidelis Ocloo Joyce Agyei- Amponsah Kenneth Danso Kwamina Banson Mavis OwurekuAsare Wisdom Agbemavor	Ghana	Mutation Induction in <i>Dioscorea esculenta</i> (Lour) Burk for Improved Nutritional and Functional Quality
237	Deepthika Kekulandara Nadeeka Sharmila Thilakarathne	Sri Lanka	Yield and Grain Quality Improvement of Rice through Induced Mutation
239	Chahine Karmous Mokhtar Baraket Sawsen Ayadi	Tunisia	Cereals Mutation Breeding in Tunisia
248	Sufian Suliman Abdelbagi Mukhtar Ali Ghanim	Sudan	Mutation-Induced Variability for Improved Yield in Spring Wheat Under Hot Irrigated Environments

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
252	Udompan Promnart Fatma Sarsu Kanchana Klakhaeng Peera Doungsoongnern Ruenruedee Kaewchuenchai	Thailand	Thai Rice Breeding for Flood Tolerance Through Electron Beam-Induced Mutation
254	Banumaty Saraye Bradley J. Till Joanna Jankowicz-Cieslak	Mauritius	A Pre-Screening Methodology for the Identification of Heat Tolerant Mutants in Tomato (Solanum lycopersicum L.)
257	Omar Hassan Abdelbagi Mukhtar Ali Ghanim Ivan Ingelbrecht	Sudan	Mutation Induction in Pearl Millet ( <i>Pennisetum glaucum</i> ) and Finger Millet ( <i>Eleusine coracana</i> ) for Dry Lands in Sudan
262	Andrea Hricová Alena Gajdošová Gabriela Libiaková Jozef Fejér		First Slovak Amaranth Varieties Generated through Radiation Mutagenesis
268	Arun Kumar Binay Kumar Agarwal Rajesh Kumar Sanjay J. Jambhulkar Varsha Rani Z.A. Haider	India	Induction of Variability for Yield Components in Indian Mustard ( <i>Brassica juncea</i> L. (Czern & Coss.) Under Acidic Soil Regime of Jharkhand, India
270	Sang-Nag Ahn Hyun-Sook Lee Kyu-Chan Shim Sun-ha Kim Yun-A Jeon	Korea, Republic of	Characterization of a New Gene Controlling Leaf Senescence Using Progeny from an Interspecific Cross in Rice

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
273	Fatma Sarsu Abdelbagi Mukhtar Ali Ghanim Ashwani Pareek Brian P. Forster Ivan Ingelbrecht Muhammed Ashraf Paul Mbogo Kusolwa Priyanka Das Rajeev N. Bahuguna Sneh Lata Singla- Pareek	IAEA	Screening Protocols for Heat Tolerant Mutants in Rice
274	Lindy Rose Altus Viljoen Brad Flett Christell Van der Veyver Kobus Slabbert	South Africa	The Use of Gamma Radiation to Generate Resistance to Fusarium verticillioides in Maize Inbred Lines
276	Heinrich Grausgruber Christian Emsenhuber Fenja Klevenhusen Florian Hochhauser Ljupcho Jankuloski Qendrim Zebeli	Austria	Evaluation of Hooded (Kap1), Awnless (Lks1) and Orange Lemma (Rob1) Mutants of Barley ( <i>Hordeum vulgare</i> L.) for Their Use as Forage Crop
282	Ariungerel Mandakh Ariuntuya Batchuluun Myagmarsuren Yadamsuren Odontungalag Tseeren	Mongolia	Rice Breeding in New Extreme Asian Region, Mongolia
283	Elias Peloewetse Lekgari Lekgari Lekgari Tidimalo Coetzee	Botswana	Broadening the Genetic Base and Nutritional Attributes of Cowpea through Mutation Induction

No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	Title of Poster
291	Abdelbagi Mukhtar Ali Ghanim Ljupcho Jankuloski Ivan Ingelbrecht	IAEA	Pre-Field Phenotyping of Lentil Mutants for Drought Tolerance Using Polyethylene Glycol
292	Abdelbagi Mukhtar Ali Ghanim Ljupcho Jankuloski Ivan Ingelbrecht	IAEA	Optimization of Doubled Haploid Production for Enhancing Efficiency of Wheat Mutation Breeding
293	Abdelbagi Mukhtar Ali Ghanim Ljupcho Jankuloski Ivan Ingelbrecht	IAEA	Rapid Cycling Techniques to Accelerate Plant Mutation Breeding in Cereals
294	Abdelbagi Mukhtar Ali Ghanim Ljupcho Jankuloski Ivan Ingelbrecht	IAEA	Optimization of Screening for Salt Tolerance in Soybean for Mutation Breeding
295	Abdelbagi Mukhtar Ali Ghanim Ivan Ingelbrecht	IAEA	Irradiation-Dose Optimization for Mutation Induction in Coffee
296	Abdelbagi Mukhtar Ali Ghanim Adel Ali Ljupcho Jankuloski Ivan Ingelbrecht	IAEA	Mutation Breeding for Resistance to the Parasitic Weed Striga in Major Cereal Crops for Sustainable Food Security

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
301	Miriam Szurman- Zubrzycka Agata Daszkowska- Golec Beata Chmielewska Elena Todorovska Iwona Szarejko Izabela Bedkowska Janusz Jelonek Malgorzata Nawrot		Development of Barley Tilling Mutants Tolerant to Aluminium Stress
303	Maria Caridad Gonzalez Cepero, Rodolfo Guillama Alonso, Dayne Horta Fernandez, Alba Alvarez Gonzalez, Armando Chavez Ardanza, Novisel Veitia Rodriguez, Mayra Rodriguez Rodriguez		Main Results of Plant Mutation Induction for Abiotic Stress in Cuba

### **POSTERS RELATED TO SESSION 3**

ENHANCING AGRICULTURAL BIODIVERSITY THROUGH NEW MUTATION INDUCTION TECHNIQUES

These posters will be displayed from Thursday to Friday in the Poster Area on M1

in the Poster Area	a on M1		
No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	Title of Poster
19	Kamani Wijesena Amitha P. Bentota Anoma Nawarathne	Sri Lanka	Effect of Gamma Rays on Seed Germination and Plant Growth Parameters of Three Rice Varieties Cultivated in Sri Lanka
20	Ali Eskandari <b>Azam Borzouei</b> S. Sanaz Ramezanpour	Iran, Islamic Republic of, Islamic Republic of	Effective Selection Criteria for Assessing Salt Stress Tolerance in Beard Wheat Lines Induced by Gamma Radiation
26	Mahesh Kharde	India	Effect of EMS on Seed Germination in Chickpea
27	Anil Wabale	India	Consequences of Sodium Azide on Percent Seed Germination and Peroxidase Isozyme Patterns in Cowpea
28	Ramdas Borse	India	Ascendancy of Physical Mutagen on Calcium Content in Medicago sativa L.
60	Jiayu Gu Hongchun Xiong Huijun Guo Junhui Li Kui Shi Luxiang Liu Yongdun Xie Yuping Ding Linshu Zhao	China	Analysis of Multiple Differences Associated with Chloroplas in the Spaceflight-Induced Wheat Leaf Colour Mutants

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
67	Deepak Sharma Deepak Ashish Tiwari Ashish Bikram Kishore Das Bikram Parmeshwar Sahu Parmeshwar Samrath Baghel Samrath Satyapal Singh Satyapal Vikash Kumar	India	Improvement of Traditional Rice Landraces of Chhattisgarh (India) Through Radiation Induced Mutagenesis
100	Munasingha Jayasundara Mudiyanselage Priyanthi Kumararathna Abdelbagi Mukhtar Ali Ghanim	Sri Lanka	Mungbean Radiosensitivity Test to Gamma Irradiation for Mutation Breeding in Mungbean
103	Priya Huzar Futty Beejan Rita Nowbuth	Mauritius	Study to Determine the Growth Reduction Dose 50 (GR50) For Gamma Rays Induced Mutagenesis in Carrot ( <i>Daucus carota</i> L.)
110	Hong-II Choi Sang Hoon Kim Si-Yong Kang Sung-Min Han Sungil Lee Yeong Deuk Cho	Korea, Republic of	Evaluation of the Effects of Proton Beam Irradiation on Germination and Growth in Rice Seeds
126	Eben Von Well Annabel Fossey Marde Booyse	South Africa	The Relationship Between the Presence of Branched Ears, Fertility, Seeding Growth and Energy Conversion after Gamma Irradiation of Kernels in <i>Triticum aestivum</i> L.
129	Noel Arrieta Reina Cespedes Miguel Barquero	Costa Rica	Radiosensitivity Test on Gamma Irradiated <i>Coffea arabica</i> Var. Venecia <i>In Vitro</i> Zygotic Embryos
133	Arjana YIIi Ilirjana Stamo	Albania	Induced Chlorophyll Content and Morphological Mutations in <i>Phaseolus vulgaris</i>
161	Mohammad Abul Kalam Azad Ara Begum Md. Hassanuzzaman Rani Mirza Mofazzal Islam	ьangladesn	Carbon Ion Beam Irradiation Technique Shortens Breeding Cycle and Induces Novel Mutants in Rice

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
172	Vinod Dhole Sreenivasulu Kandali Reddy	India	Comparative Efficacy of Electron Beam Over Gamma Rays to Induce Novel Mutations in Mungbean ( <i>Vigna radiata</i> L. Wilczek)
173	Vikash Kumar Anjali Chauhan Avinash K. Shinde Bikram K. Das Deepak Sharma Ramesh L. Kunkerkar	India	Gamma Ray Induced Mutagenesis for Developing New Mutant Genotypes with Higher Yield Potential in Red Kernel Rice Variety 'Surak'
182	Suvendu Mondal Anand Badigannavar Poonam Bhad	India	Development of High Yielding and Large Seed Mutants of Trombay Groundnut ( <i>Arachis hypogaea</i> L.). Using Electron Beam Irradiation
189	Regina C. Oliveira Stephan Nielen	Brazil	Characterization of Remarkable Mutants and Ecotypes of Brachiaria ( <i>Urochloa</i> Spp.) and New Collections of Forage Grasses from Kenya.
201	Elsayed Elazazi Aisha Al-Kuwari Maryam Al- Qahtani Nafeesath Shahsil	Qatar	Enriching Genetic Diversity and Conserving Plant Genetic Resources Using Nuclear Techniques and Related Technologies in the State of Qatar
210	Busiso Mavankeni Shylet Tsekenedza	Zimbabwe	Creation of Variability in Bambara Groundnut Using Mutation Breeding
243	Sophia Goßner Chenguang Zhou Fengjie Yuan Karl-Heinz Engel Qingyao Shu Yuanyuan Tan	Germany	Influence of Cross-Breeding on The Phytic Acid Contents of Low Phytic Acid Rice and Soybean Mutants
246	<b>Anh Vu Nguyen</b> Ham Le Huy	Viet Nam	Application of Ion-Beam Irradiation on Cassava Seeds
251	Al-Ghaliya Humaid Khamis AL-Mamari Abdelbagi Mukhtar Ali Ghanim	Oman	Mutation Induction for Sorghum and Rice Using Gamma and X-Ray Radiations
258	Amina Aly Rabab Maraei Sayed Mohamed Youssef Trifa	Egypt	Evaluation of Gamma Ray Induced Mutant Populations of Two Egyptian Bread Wheat Varieties ( <i>Triticum aestivum vulgare</i> L.) for Proline Gene Expression in Two Cultivars Under Salt Stress

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
260	Gulina Doktyrbay Saule Kenzhebayeva Alfya Abekova Dauren Tashenev Fatma Sarsu Nargul Omirbekova	Kazakhstan	Improvement of Spring Wheat Grain Micronutrients Concentrations Through Mutation Breeding
264	Vanniarajan Chockalingam Priyadharshni Sambath Kumar Selva Kumar Thangaraju J. Souframanien	India	Gamma Ray Induced Black Gram ( <i>Vigna mungo</i> L. Hepper) Mutant Differing in Floral Characters
278	Kimberly Ureña Noel Arrieta Espinoza	Costa Rica	An Approach to Obtain the Optimal Dose of Seed Irradiation for Mutagenesis in Coffea arabica

### **POSTERS RELATED TO SESSION 4**

# MUTATION BREEDING FOR ORNAMENTAL AND VEGETATIVELY PROPAGATED CROPS

These posters will be displayed from Thursday to Friday in the Poster Area on M1

No. of Poster		Designating Member	
IAEA-CN-263	Name	State/Organization	Title of Poster
30	Dariusz Kulus	Poland	Can Cryotreatment Be a Tool Useful in Mutation Breeding?
32	Ramon Scherer Alexander De Andrade Augusto Tulmann Neto Giuliano Rigo	Brazil	Banana Mutagenesis <i>In Vitro</i> : Sensitivity of Shoots to Gamma Radiation
36	<b>Kalyani Datta</b> Subodh Kumar Datta	India	Pollen Grain Characters – A Useful Parameter for Testing Radio-Sensitivity and Characterization of Mutants
71	Nobuko Mase Toshihiro Saito	Japan	Genetic Characterization of a Novel Pollen-Part Self- Compatible Mutant of Japanese Pear in Progeny of a Cross Using Pollen from a Chronically Gamma-Irradiated Tree
73	Hiroaki Yamanouchi	Japan	Chimerism in Mutant Woody Crops
75	Hamid Reza Sabaghi Gholamreza Sharifi Sirchi Pejman Azadi	Iran, Islamic Republic of	In Vitro Mutation Breeding or Carnation by Gamma Radiation
88	Murat Seker Engin Gur Mehmet Ali Gundogdu Neslihan Ekinci Nilufer Kaleci	Turkey	Development of Polyploids of Some Citrus Species by <i>In Vitro</i> Colchicine Treatments and Early Selection by Flow Cytometry
104	Mohammed Jawhar Altos Viljoen Mohammed Arabi <b>Nizar MirAli</b> Bradley J. Till	Syrian Arab Republic	High-Throughput Genotyping of VCGs Fusarium oxysporum Pathotypes for Potential Selection of Banana Resistant Mutants

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
119	Norazlina Noordin Mohd Fajri Osman Nashimatul Adadiah Yahya Norellia Bahari Norhafiz Talib Nurhayati Irwan Saw Peng Chong	Malaysia	Improvement of Stevia rebaudiana Bertoni Through Gamma Irradiation and Micropropagation
138	Ethel Velasquez Adriana Nario Oscar Duran Paulina Aguirre	Chile	Chilean First Steps in Plant Mutation Breeding
149	Murat Seker Engin Gur Mehmet Ali Gundogdu Neslihan Ekinci Nilufer Kaleci	Turkey	Phenological and Pomological Differences in Gamma Irradiated '0900 Ziraat' Sweet Cherry Mutants
156	Aime Diamuini Ndofunsu Freddy Bulubulu Otono	Democratic Republic of the Congo,	In Vitro Mutagenesis in Congolese Cassava Accession, Boma and Reverse Genetics Strategies (Tilling) Studies
217	Viktor Kozhevnikov Aleksander Pavlov Anton Kozhevnikov Rena Mikailova	Russian Federation	Mutation Breeding of Ornamental Crops
227	Guillermo del Carmen Reyes- Castro Donald Juárez- Gámez Heeidy Corea- Narváez Rosario García- Loáisiga Stephan Nielen	Nicaragua	Broadening the Genetic Variation of Vegetatively Propagated Crops Using Nuclear Techniques in Nicaragua
228	Julius Baguma Robert Kawuki Settuba B. Mukasa	Uganda	Exploring Induction of Doubled Haploids in Cassava Through Wide Crossing with Castor Bean
245	Damian Ndubuisi Njoku	Nigeria	Reducing Post-Harvest Physiological Deterioration in Cassava Roots: The Nigerian Experience
249	<b>Babita Dussoruth</b> Vivian Vally	Mauritius	Improvement of Local Dessert-Type Banana for Disease Tolerance and Agronomic Traits Through Nuclear Technique Application

No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	Title of Poster
255	Babita Dussoruth Joanna Jankowicz-Cieslak	Mauritius	Irradiation as Means for Increasing Genetic Diversity in Banana: The Need to Carry Out Radiosensitivity Tests on In Vitro Cultures at Appropriate Stage of Growth
263	Emmanuel Ogwok Titus Titus Alicai	Uganda	Developing Disease Resistant High Yielding Farmer- Preferred Cassava Varieties in Uganda Through Induced Mutation Breeding
275	Titus Titus Alicai	Indonesia	Preferred Cassava Varieties in Uganda Through Induced Mutation Breeding The Presence of Stem Splitting and Fasciation in Chrysanthemum as Response to Gamma Irradiation and Photoperiod

### **POSTERS RELATED TO SESSION 5**

# NEW CHALLENGES AND TECHNOLOGIES IN PLANT GENOMICS AND BREEDING

These Posters will be displayed from Thursday to Friday in the Poster Area on M1

the Poster Area c				
No. of Poster IAEA–CN–263	Name	Designating Member State/Organization	-	Title of Poster
1	Roman Churyukin Polina Volkova Stanislav Geras'kin	Russia		Radiation Exposure of Barley Seeds Can Improve Plants' Development
39	Sang Nag Ahn Hyun-Sook Lee Kyu-Chan Shim Yeo-Tae Yun Yun-Joo Kang	Republic of Korea		Fine Mapping and Candidate Gene Analysis of The Quantitative Trait Locus Gw8. 1 Associated with Grain Weight in Rice
46	Tao Guo Hui Wang Wenlong Luo Zhiqiang Chen	China		Analysing the Spectrum of Spaceflight-Induced Mutagenesis Via High Throughput Sequencing
47	<b>Li Zhu</b> Guiying Li Xiaoduo Lu Yubin Li	China		Characterization of Novel Sorghum Mutants from an EMS Mutagenized Population
48	Li Zhang Xuanming Peng <b>Zhen Yang</b>	China		Genomic Variation Characteristics of Gamma Radiation- Induced Mutations in M₁ Population of the Rice Japonica Variety Gaogengnuo
55	Hongchun Xiong Huijun Guo, Linshu Zhao, Luxiang Liu, Yongdun Xie	China		RNA-Seq-Based Transcriptome Analysis of Molecular Variations in Common Wheat Mutants Derived from Gamma-Rays and EMS
63	Xinmei Guo Xinxin Sun Xiyun Song	China		The Proteomics Research in Maize Mutant Seeds By <sup>60</sup> C Gamma Ray Radiation
76	<b>Dana Jawdat</b> Bernhard Hofinger Nizar Mir Ali Ola Moustafa	Syrian Arab Republic		High-Resolution Melting Analysis for the Identification of SNP Mutations in the bZIP Domain of Hvwrk38 Gene Among Barley Genotypes
85	Noraishah Hasan Abdul Rahim Harun Norida Mazlan Nusaibah Syed Ali Rafii Mohd Yusoff Shamsiah Abdullah	Malaysia		Marker-Assisted Backcrossing for Recovery of Recurrent Parent Genome from a Cross Between Mr264 and Pongs Seribu 2 Rice Varieties

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
123	Vasilissa Manova Christopher West Lubomir Stoilov Wanda Waterworth	Bulgaria	DNA Damage Response During Early Germination in Relation to Seed Aging and Radio-Sensitivity in Barley
124	Vasilissa Manova, Irina Boycheva, Lubomir Stoilov, Ralitsa Georgieva	Bulgaria	Barley Act7 Homologue is Up-Regulated in Response to UC-C Radiation
127	Elena Todorovska Atanas Atanassov Georgi Boncheva Gergana Mihailova Goritza Rakleova Irina Boycheva Katya Georgieva Lubomir Stoilov Lyudmila Simova- Stoilova Rossitza Rodeva Stefan Tsonev Svetlana Misheva Tanya Karceva Valya Vassileva Vasilissa Manova Zlatina Uhr Zornitsa Stoyanova	Bulgaria	Evaluation of Wheat and Barley Germplasm Stress Response by Nuclear, Omics and Physiological Approaches
137	Ayse Sen Irfan Ozturk	Turkey	Association Mapping Study of Agronomic Traits in Backcrossed Mutant Wheat Germplasms Under Drought Stress and Non-Stressed Conditions
145	Andrew Peter, Arumugam Pillai, S. Ramchander, J. Souframanien	India	Association Mapping for Morphological and Grain Quality Traits in Rice White Ponni Mutants
176	<b>ArumugamPillai</b> K. K. Kumar Yasin Jeshima Khan	India	Modification of Unmethylated Cytosine into Thymine in Sd1 Causes Semi Dwarfing in White Ponni Rice Mutant
179	Poonam Bhad Anand Badigannavar, Suvendu Mondal	India	Association Mapping of Ascorbic Acid Contents, Antioxidant Activity and Seed Weight in Peanut ( <i>Arachis hypogaea</i> L.) Mutants.
183	Fatemeh Maghuly Margit Laimer Markus Freudhofmaier Wayne Parrott	Austria	Establishment of CRISPR/Cas9-Mediated Gene Editing Approaches in <i>Jatropha curcas</i>

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
218	Suhua Wang, Xuzhen Cheng	China	A New Variety Zhonglyu No.8 from Space Mutation Induction
219	<b>Lixia Wang</b> Xuzhen Cheng	China	A New Variety Zhonglyu No.12 from Space Mutation
229	Deepika Weerasinghe Akila Amarathunga Darsha Withanawasam Dimanthi Jayatilake Kapikasiri Udawela Mihirini Gunasinghe Pradeepa De Silva	Sri Lanka	Improving Rice Line Ld 99-12-38 For Bacterial Leaf Blight Resistance Through Marker Assisted Selection (MAS)
265	Liuba Coretchi Dinu Cliciuc Ecaterina Bondarenco	Moldova	Molecular and Genetic Aspects of the Resistance of Leguminous Plants to Biotic Stress Factors
286	Andrea Tramontano Luka Jarc Joanna Jankowicz- Cieslak Bernhard J. Hofinger Katarzyna Gajek Miriam Szurman- Zubrzycka Iwona Szarejko Ivan Ingelbrecht Bradley J. Till	IAEA	Fragmentation of pooled PCR products for deep amplicon sequencing
287	Joanna Jankowicz- Ciesla Florian Goessnitzer Chih-Ping Chao Shih-Hung Huang Sneha Datta Ivan Ingelbrecht Bradley J. Till	IAEA	Induced mutagenesis for generating bananas resistant to Fusarium wilt TR4

No. of Poster IAEA-CN-263	Name	Designating Member State/Organization	Title of Poster
288	Joanna Jankowicz- Cieslak Binita Saraye Sini Junttila AttilaGyenesei Ivan Ingelbrecht Bradley J. Till	IAEA	Mapping the Landscape of Gamma and X-ray-induced Mutations in Rice
289	Joanna Jankowicz- Cieslak Binita Saraye Sini Junttila AttilaGyenesei Ivan Ingelbrecht Bradley J. Till	IAEA	Whole Genome Sequencing of Advanced Mutant Lines of Heat Tolerant Tomato Induced by Gamma Irradiation
298	Ivan Ingelbrecht Bernhard Hofinger Eda Akgun Mirta Matijevic Adel Ali Joanna Jankowicz- Cieslak Luka Jarc Ljupcho Jankuloski Abdelbagi Mukhtar Ali Ghanim Heinrich Grausgruber	IAEA	Development of a Functional Marker for Marker-Assisted Selection of 'Orange Lemma' Mutants to Improve Feed Quality in Barley
299	Norman Warthmann Abdelbagi Mukhtar Ali Ghanim Adel Ali Mirta Matijevic Joanna Jankowicz- Cieslak Ivan Ingelbrecht	IAEA	Creating Desired Traits for African Sorghum, Semi-Dwarf and Early Maturing, and Molecular Characterisation of their Genetic Architecture

#### PARTICIPATION IN IAEA SCIENTIFIC MEETINGS

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants in IAEA scientific conferences and symposia. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Representatives of the press, radio, television or other information media and members of the public, the latter as 'observers', may also be authorized to attend, but without the right to take part in the proceedings.

Scientists interested in participating in any of the IAEA meetings should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

### **PUBLICATION**

A book containing scientific papers based on presentations and selected posters will be published with an external publisher after the Conference.

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#### Log in!

Many of the App features can be accessed without logging in. However to enjoy all the features of the App you will need to log in with your individual event code. This code was emailed to all registered participants approximately one week before the conference.

### App Features

The App has a number of very useful features. Inter alia it allows you to:

- See who is attending
- Message other participants (log in is required)
- Access PowerPoint presentations which have been released by their authors, abstracts and posters
- View an up-to-date programme
- Receive announcements via push notifications

## FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY THE IAEA

#### 2018

International Symposium on Communicating Nuclear and Radiological Emergencies to the Public 1-5 October 2018 Vienna, Austria

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSOs) in Enhancing Nuclear Safety and Security 15-18 October 2018, Brussels, Belgium

27th IAEA Fusion Energy Conference (FEC-2018), 22-27 October 2018, Ahmedabad, India

Symposium on International Safeguards, 5-8 November 2018, Vienna, Austria

Ministerial Conference on Nuclear Science, Technology and Applications for Peaceful Uses 28-30 November 2018, Vienna, Austria

International Conference on Global Radioactive Material Security Governance 3-7 December 2018, Vienna, Austria

International Symposium on Understanding the Double Burden of Malnutrition for Effective Interventions 10-13 December, Vienna, Austria

#### 2019

International Symposium on Isotope Hydrology 20–24 May, Vienna Austria

International Symposium on Standards, Applications and Quality Assurance in Medical Radiation Dosimetry (IDOS-2019)

18-21 June, Vienna, Austria

International Conference on the Management of Spent Fuel from Nuclear Power Reactors: Learning from the Past, Enabling the Future 24–28 June, Vienna, Austria

International Conference on Climate Change and the Role of Nuclear Power

7-11 October, Vienna, Austria

International Symposium on Trends in Radiopharmaceuticals (ISTR-2019)

28 October-1 November, Vienna, Austria

International Conference on Effective Regulatory Systems for Nuclear and Radiation Safety
November, Amsterdam, Netherlands

International Conference on Research Reactors: Addressing Challenges and Opportunities to Ensure Effectiveness and Sustainability

25-29 November, Buenos Aires, Argentina

For complete information on forthcoming scientific meetings, please consult the IAEA conference web site: http://www.iaea.org/meetings

