## <u>Detailed Symposium Programme</u> Monday 15<sup>th</sup> February 2016

#### 09.30-12.30: Plenary Session, Green Room

Welcome Address, by José Graziano da Silva, Director-General, FAO, Rome, Italy

Keynote Address: The state of knowledge in biotechnology, by Louise Fresco, President, Executive Board of Wageningen UR, Wageningen, the Netherlands

Keynote Address: Towards ending the misplaced global debate on biotechnology, by **Gebisa Ejeta**, Distinguished Professor, Purdue University, West Lafayette, United States of America

Keynote Address by Evelyn Nguleka, President, World Farmers' Organisation, Rome, Italy

Moderated by Ren Wang, Assistant Director-General, Agriculture and Consumer Protection Department, FAO, Rome, Italy

#### 14.00-17.00: Parallel Sessions (x' indicates no. of minutes)

Sheikh Zayed Centre	Red Room	Green Room
1.1 Facing the challenges of climate	2.1 Improving productivity through enhanced	3.1 Social and economic impacts of
change: Adaptation in the crop and	resource use efficiency	agricultural biotechnologies for smallholders:
forestry sectors	Chair: Sergio Feingold	Taking stock of the evidence and prioritizing
Chair: Chittaranjan Kole	Instituto Nacional de Tecnologia	future assessments
Jacob School of Biotechnology &	Agropecuaria, Buenos Aires, Argentina	Chair: Sachin Chaturvedi
Bioengineering, Allahabad, India	Co-chair: Thuy Nguyen	Research and Information System for
Introductory remarks (5')	BioSciences Research Division, Melbourne,	Developing Countries, New Delhi, India
Chittaranjan Kole	Australia	Co-chair: Eduardo Trigo
Developing rice varieties with	Introductory remarks (5')	Ministry of Science, Technology and Productive
enhanced adaptation to lowland farming systems: Case studies from	Thuy Nguyen	Innovation, Buenos Aires, Argentina
South Asia (20')	55.1	Introductory remarks (5')
Abdelbagi Ismail	Resource use efficiency in crops: "Green super	Sachin Chaturvedi
International Rice Research Institute,	rice" to increase water and nitrogen use	Introductory remarks (5')
Los Baños, the Philippines	efficiency of rice (25')	Eduardo Trigo
	Sibin Yu Huazhong Agricultural University, Wuhan,	Evidence-based policy-making: The role of impact assessment studies and their
Harnessing agricultural biotechnology for resilience to	China	implications for agricultural biotechnologies
climate change: A lesson from water	Resource use efficiency in vegetables:	(25')
efficient maize for Africa project (20')	Application of molecular breeding to bambara	David Spielman
Yoseph Beyene	groundnut, an underutilised crop for low-input	International Food Policy Research Institute,
International Maize and Wheat	agriculture (25')	Washington D.C., United States of America
Improvement Center (CIMMYT),	Sean Mayes	Lessons learned from case studies of applying
Nairobi, Kenya	Crops for the Future, Semenyih, Malaysia	biotechnologies for smallholders (15')
Molecular breeding in legumes for	Resource use efficiency in fish: Application of	Andrea Sonnino
resource-poor farmers: Chickpea for	biotechnology in genetic improvement in	Italian National Agency for New Technologies,
Ethiopia and India (20′)	tropical aquaculture (25')	Energy and Sustainable Economic Development
Douglas Cook	David Penman	and FAO, Rome, Italy
University of California Davis, Davis,	University of Stirling, Stirling, United Kingdom	Evidence at work: Country experience in the use
United States	Resource use efficiency in livestock: Bridging	of evidence in policy-making on agricultural
Genomic approaches for dissecting	the biotechnology-livestock productivity gap in	biotechnologies (15')
fitness traits in forest tree	East Africa (25')	Jikun Huang
landscapes (20')	<b>Denis Mujibi</b> Nelson Mandela African Institute for Science	Chinese Academy of Sciences, Beijing, China Factors that determine whether
Ciro De Pace		
Università degli Studi della Tuscia, Viterbo, Italy	and Technology, Arusha, Tanzania  Resource use efficiency in forestry: Utilisation	biotechnologies can have positive impacts on the livelihoods of smallholders: Examples from
Use of genomics for understanding	of tree genetic resources (25')	India (15')
and improving adaptation to climate	Judy Loo	Narayan Hegde
change in forest trees (20')	Bioversity International, Rome, Italy	BAIF Development Research Foundation, Pune,
Sally Aitken	, , , , , , , , , , , , , , , , , , , ,	India
University of British Columbia,	Discussion (45') moderated by <b>Dominic Glover</b>	Discussion (95') moderated by Eduardo Trigo
Vancouver, Canada	Institute of Development Studies, Brighton,	Closing remarks (5') Sachin Chaturvedi
Discussion (70') moderated by	United Kingdom	
Chittaranjan Kole		
Closing remarks (5') Chittaranjan	Closing remarks (5') Sergio Feingold	
Kole		

# **Tuesday 16<sup>th</sup> February 2016**

### 09.00-10.00: Plenary Session, Green Room

Keynote Address: Biotechnologies in action in Brazil, by Maurício Lopes, President, Empresa Brasileira de Pesquisa Agropecuária, Brasília, Brazil

Keynote Address: Breakthroughs in resource productivity, by **Gunter Pauli**, Founder, Zero Emissions Research and Initiatives Network, Japan

Moderated by Clayton Campanhola, Strategic Programme Leader, Sustainable Agriculture, FAO, Rome, Italy

## 10.00-13.00: Parallel Sessions

10.00- 13.00: Parallel Sessions		
Sheikh Zayed Centre	Red Room	Green Room
1.2 Facing the challenges of climate	2.2 Post production value addition and food safety	3.2 Public policies, strategies and
change: Adaptation in the livestock and	(2 sub-sessions)	regulations on agricultural
fishery sectors	Chair sub-session 1: Sergio Feingold	biotechnologies
	Instituto Nacional de Tecnología Agropecuaria, Buenos	Chair: TBC
Chair: Shadrack Moephuli	Aires, Argentina	
Agricultural Research Council, Pretoria,	Chair sub-session 2: Delia Grace	Introductory remarks (5')
South Africa	International Livestock Research Institute, Nairobi, Kenya	ТВС
Co-chair: Thuy Nguyen	Sub-session 1: Enhancing value in the post-production	
BioSciences Research Division,	<u>phase</u>	Supporting developing countries in the
Melbourne, Australia	Introductory remarks (5') Sergio Feingold	development and implementation of their
Introductory remarks (5′)	Use of feed additives generated through fermentation	national biosafety frameworks (15')
Thuy Nguyen	technologies for livestock feed (20')	Charles Gbedemah
	Cavaba Srinivas Prasad	Convention on Biological Diversity,
	National Institute of Animal Nutrition and Physiology,	Montreal, Canada
Fish breeding for future environments	Bengaluru, India	The role of intellectual property rights in
under climate change (20′)	Use of biotechnologies to increase the storability and	enabling or impeding the application of
Panya Sae-Lim	shelf life of fruit (20')	agricultural biotechnologies, with special
Norwegian Institute of Food, Fishery and	Eric van de Weg	reference to developing country
Aquaculture Research, Tromsø, Norway	Wageningen University and Research Centre,	agriculture (15')
Development of diagnostic tools and	Wageningen, the Netherlands	Anatole Krattinger
vaccines for aquatic animals (20')	Applying agricultural biotechnology tools and capabilities	World Intellectual Property Organisation,
Sandra Adams	to enhance food security and nutrition from local food	Geneva, Switzerland
University of Stirling, Stirling, United	crops to stimulate sustainable income opportunities for	Regulation and intellectual property of
Kingdom	small holder farmers to reduce poverty (20')	agricultural biotechnologies: Perspectives
Biotechnologies for animal breeding and	Howard-Yana Shapiro	from the private sector (15')
coping with climate change (20')	Mars Incorporated, Dranesville and University of	Adrianne Massey
Paul Boettcher	California Davis, Davis, United States of America	Biotechnology Industry Organization,
FAO Animal Genetic Resources Branch,	Discussion (20') and sub-session closing remarks (5')	Washington D.C, United States of America
Rome, Italy	moderated by Sergio Feingold	Regulation and intellectual property of
Use of biotechnologies to improve feed		agricultural biotechnologies: Perspectives
quantity and quality: Adaptation to the	Sub-session 2: Using biotechnologies to ensure the	from the civil society (15')
changing climate from the animal	safety of food	Guy Kastler
nutrition perspective (20')	Introductory remarks (5') Delia Grace	La Via Campesina, Narbonne, France
Ulrich Meyer	Traditional milk fermentation as a potential tool for	The challenges of developing national
Friedrich-Loeffler-Institut, Greifswald,	sustainable improvement of food safety' (20')	policies and regulations for agricultural
Germany	Kohei Makita	biotechnologies: Reflections from
Development of livestock vaccines (20')	Rakuno Gakuen University, Ebetsu, Japan	cumulative experience (15')
Jean de Foucauld	Aflasafe: A case study for aflatoxin reduction in crops	Eduardo Trigo
Health for Animals, Brussels, Belgium	(20')	Ministry of Science, Technology and
A landscape genomics approach in	Ranajit Bandyopadhyay	Innovation, Buenos Aires, Argentina
unravelling adaptive genetic diversity in	International Institute of Tropical Agriculture, Ibadan,	How to ensure that policies, strategies and
goats: A case study of South Africa (20')	Nigeria	regulations on agricultural
Farai Muchadeyi	Diagnostic tools to detect pathogens causing	biotechnologies act to benefit
Agricultural Research Council, Pretoria,	tuberculosis in cattle and prevent their transmission	smallholders (15')
South Africa	through dairy products to humans (20')	Dominic Glover
Discussion (50') moderated by Shadrack	Flábio Ribeiro de Araújo	Institute of Development Studies,
Moephuli	Empresa Brasileira de Pesquisa Agropecuária,	Brighton, United Kingdom
Closing remarks (5') Shadrack Moephuli	Brasília, Brazil	Discussion (80') moderated by TBC
•	Discussion (20') and sub-session closing remarks (5')	,
	moderated by Delia Grace	Closing remarks (5') <b>TBC</b>
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## Tuesday 16th February 2016

#### 14.30-17.30: High Level Segment, Green Room

*Opening and Closing Remarks* by **José Graziano da Silva**, Director-General, FAO, Rome, Italy High-level participants include:

- Argentina: Néstor Roulet, Secretario de Agregado de Valor, Ministerio de Agroindustria
- Bangladesh: Begum Matia Chowdhury, Minister for Agriculture (TBC)
- Cameroon: Henri Eyebe Ayissi, Minister of Agriculture and Rural Development (TBC)
- Canada: Lawrence MacAulay, Minister for Agriculture and Agri-Food (TBC)
- Nepal: Haribol Prasad Gajurel, Minister of Agricultural Development (TBC)
- Oman: Fuad bin Ja'afar bin Mohammed Al Sajwani, Minister for Agriculture and Fisheries (TBC)
- Senegal: Papa Seck, Minister of Agriculture and Rural Equipment
- The Netherlands: Hans Hoogeveen, Vice Minister for Agriculture, Ministry of Economic Affairs
- The United States of America: Michael Scuse, Under Secretary for Farm and Foreign Agricultural Services

Moderated by Marcela Villarreal, Director, Office for Partnerships, Advocacy and Capacity Development (OPC), FAO, Rome, Italy

### 17.30-19.00: Student Interactive Session, Sheikh Zayed Centre

Participating universities include:

- American University of Beirut, Lebanon
- Bogor Agriculture University, Indonesia
- Cornell University, the United States of America
- University of Ghana, Ghana
- Wageningen University, the Netherlands

#### Panellists include:

- Gebisa Ejeta, Purdue University, the United States of America
- **Louise Fresco,** Wageningen UR, the Netherlands
- Evelyn Nguleka, World Farmers' Organisation, Italy (TBC)
- Gunter Pauli, Zero Emissions Research and Initiatives Network, Japan
- José Graziano da Silva, FAO Director-General (TBC)

The session is organized with Young Professionals for Agricultural Development (YPARD) and will be facilitated by Kakoli Ghosh, Coordinator, Academia and Research Institutions, OPC, FAO, Rome, Italy

## Wednesday 17th February 2016

### 09.00-12.00: Parallel Sessions

Sheikh Zayed Centre	Red Room	Green Room
1.3 How can biotechnologies contribute to adaptation with mitigation co-benefits?	2.3 Nutrition and food quality	3.3 Investing in biotechnology solutions through capacity development and partnerships
Chair: Olivier le Gall	Chair: Maggie Gill	Chair: Kongming Wu
Institut National de la Recherche	CGIAR Independent Science and	Chinese Academy of Agricultural Sciences, Beijing,
Agronomique, Paris, France	Partnership Council, Rome, Italy	China
Introductory remarks (5′)		Introductory remarks (5')
Olivier le Gall		Kongming Wu
Agricultural biotechnology and the economics	Introductory remarks (5')	Capacity development and partnerships in
of food security and climate	Maggie Gill	agricultural biotechnologies (25')
change mitigation (25')	Our food, our diet, our health: Where	Sunkeswari Raghavendra Rao
Daniel Sumner	do we go from here?	Department of Biotechnology, Government of
University of California Davis, Davis, United	Anna Lartey	India, New Delhi, India
States of America		

Biodiversity key to helping farmers adapt to climate change (15') Ann Tutwiler Bioversity International, Rome, Italy	FAO Nutrition and Food Systems Division, Rome, Italy	Biosciences capacity building in Africa: Lessons learned from Biosciences eastern and central Africa (BecA) (15') Appolinaire Djikeng Biosciences eastern and central Africa, Nairobi, Kenya
Biological nitrification inhibition (BNI) in plants: Implications for nitrogen-use efficiency and nitrous oxide emissions from agricultural systems (15')  Guntur Venkata Subbarao  Japan International Research Center for Agricultural Sciences, Tsukuba, Japan	Application of biotechnologies in improving the quality of rice and wheat. (20')  Melissa Fitzgerald  University of Queensland, St Lucia, Australia  Biofortification of staple food crops:	Case studies of public-private partnerships in agricultural biotechnologies: Lessons learned (15')  Denis Murphy University of South Wales, Cardiff, United Kingdom  Building partnerships, empowering champions: The example of the Cornell Alliance for Science
Mitigation of enteric methane emissions from ruminant animals (15')  Henning Steinfeld  FAO Livestock Information, Sector Analysis and Policy Branch, Rome, Italy  Use of biodiversity as a biotechnological tool for carbon sequestration in the tropics (15')  Paulo Kageyama	Justification, progress, and future activities. (20')  Howarth Bouis International Food Policy Research Institute, Washington D.C., United States of America  Fish for all: role of biotechnology in improving nutrition (20')	(15') Sarah Evanega Cornell University, Ithaca, United States of America North-south/west-east cooperation in agricultural biotechnologies: Some lessons from Italy (15') Riccardo Aleandri Council for Agricultural Research and Economical
Universidade de São Paulo, São Paulo, Brazil  Carbon sequestration in agricultural soils: The  "4 per mil" program (15')  Hervé Saint Macary  Centre de coopération internationale en recherche agronomique pour le	Albert Tacon Aquatic Farms Ltd., Honolulu, United States of America  Discussion (80') moderated by Maggie Gill	Analysis, Rome, Italy  Case studies of south-south collaboration in agricultural biotechnologies: Lessons learned (15')  Sachin Chaturvedi  Research and Information System for Developing Countries, New Delhi, India
développement (CIRAD), Paris, France  Discussion (70') moderated by Olivier le Gall  Closing remarks (5') Olivier le Gall	Closing remarks (5') Maggie Gill	Discussion (70') moderated by Courtney Paisley, Young Professionals for Agricultural Development (YPARD), Rome, Italy Closing remarks (5') Kongming Wu

### 12.30- 14.00: Plenary Session, Green Room

Reporting of outcomes from the three parallel sessions dedicated to the 'Climate change' theme, by Olivier Le Gall, Institut National de la Recherche Agronomique (CIRAD), France (TBC)

Reporting of outcomes from the three parallel sessions dedicated to the 'Sustainable food systems and nutrition' theme, by Maggie Gill, CGIAR Independent Science and Partnership Council, Rome, Italy

Reporting of outcomes from the three parallel sessions dedicated to the 'People, policies, institutions and communities' theme, by Sachin Chaturvedi, Research and Information System for Developing Countries, India

Reporting of the outcomes from the Student Interactive Session, by Kakoli Ghosh, FAO Office for Partnerships, Advocacy and Capacity Development, Italy

Some highlights of the Symposium from a non-FAO perspective, by Louise Fresco, Wageningen UR, the Netherlands

Closing remarks, by José Graziano da Silva, FAO Director-General (TBC)

Moderated by Shadrack Moephuli, Agricultural Research Council, South Africa

### **Side Events**

An international call for side events was opened by FAO in November 2015 with a deadline of 31 December 2015 (<a href="http://www.fao.org/about/meetings/agribiotechs-symposium/side-events/en/">http://www.fao.org/about/meetings/agribiotechs-symposium/side-events/en/</a>). All proposals were carefully considered and five side events were chosen based on the pre-defined selection criteria. Side events are arranged by external stakeholders and FAO is not responsible for organization of these side events.

#### **Selected Proposals:**

Date and Time: Monday 15<sup>th</sup> February 2016: 12.45-13.45

Venue: Iran Room

Title: African Biofortified Sorghum Project

Organizer: Global Harvest Initiative

Co-organizer(s): Africa Harvest and DuPont Pioneer

Date and Time: Monday 15<sup>th</sup> February 2016: 12.45-13.45

Venue: Sheikh Zayed Centre

Title: Helping farmers grow: Climate change, food security and the technology nexus

Organizer: CropLife

Co-organizer(s): Borlaug Institute for International Agriculture, Texas A&M University and International Food Policy Research

Institute

Date and Time: Tuesday 16th February 2016: 13.15-14.15

Venue: Iran Room

Title: The voice of farmers: Biotechnology in the field

Organizer: Canadian Canola Growers Association

Co-organizer: Asociacíon Argentina de Consorcios Regionales de Experimentación Agricola (AACREA)

Date and Time: Tuesday 16th February 2016: 13.15-14.15

Venue: Sheikh Zayed Centre

Title: New breeding technologies for smallholders' challenges

Organizer: Ministry of Economic Affairs of the Government of the Netherlands

Date and Time: Tuesday 16th February 2016: 17.45-18.45

Venue: Iran Room

Title: Practical approaches to regulation and oversight of agricultural biotechnology: Experiences from developed

and developing countries

Organizer: Government of Canada

Co-organizer(s): Government of the United States of America

#### **Room Numbers**

Green Room: (A122int) Building A, Floor 1, Room 22int

Red Room: (A121int) Building A, Floor 1, Room 21int

Iran Room: (B116) Building B, Floor 1, Room 16

Sheikh Zayed Centre: Found in the Atrium, Ground Floor, just inside the main entrance.



Agenda may be subject to change. Use this QR code to access the latest version of the agenda on the symposium website or visit: http://www.fao.org/about/meetings/agribiotechs-symposium/en/