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FOOD SECURITY



GFIME

GLOBAL FORUM

ON INNOVATIONS FOR MARGINAL ENVIRONMENTS

20-21 NOVEMBER 2019

AL HABTOOR POLO RESORT DUBAI, UAE

Agenda



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Food Security and Innovation Day

Wednesday, 20 November 2019

08:30	Morning Refreshments & Networking
09:00	WELCOME AND OPENING ADDRESS H.E. Mariam Bint Mohammed Saeed Hareb Al Mehairi, Minister of State for Food Security – UAE
09:05	OPENING ADDRESS: Safeguarding The Future of Marginal Environments Dr. Ismahane Elouafi, Director General, ICBA - UAE
09:15	INTERNATIONAL KEYNOTE ADDRESS: How will we feed humanity as earth becomes an ever more marginal environment for agriculture? Dr. Nina Fedoroff, Evan Pugh Professor Emerita, Penn State University - USA
09:35	MINISTERIAL PANEL: An outlook on food security - from STEM → Farm → Fork → Food Security <i>The future of safeguarding the food security value chain.</i> <i>Leadership in Food Security</i> Panelists: <ul style="list-style-type: none"> H.E. Mariam Bint Mohammed Saeed Hareb Al Mehairi, Minister of State for Food Security – UAE H.E. Sarah bint Youssef Al Amiri, Minister of State for Advanced Sciences – UAE, Ministry of Cabinet Affairs and The Future - UAE Mr. Ayman Amin Sejiny, General Manager (CEO) of ICD, Saudi Arabia H.E. Dr. Sidi Ould Tah, Director General, Arab Bank for Economic Development in Africa (BADEA) – Sudan Moderator: Ms. Thin Lei Win, Food Security Correspondent, Thomson Reuters Foundation – Italy
10:15	Launch of ICBA YES initiative 
10:25	INNOVATORS PANEL: Unlocking value - supporting agriculture and food innovation and the future of smart investments <i>Can smart agriculture strategies mitigate climate risk, increase food production and save the planet, all at the same time?</i> <i>Innovation & Investment</i> Panelists: <ul style="list-style-type: none"> Ms. Hajbouha Zoubeir, President, Phosboucraa Foundation – Morocco Dr. José Graziano da Silva, Eighth Director General, Former Director General, UNFAO - Brazil Dr. Kanayo F. Nwanze, Chairman & Chief Executive, FAYODE – Nigeria Dr. Alex Ariho, Chief Executive Officer, African Agribusiness Incubators Network – Ghana Mr. Soud Ba'alawy, Chairman, Enspire - UAE Moderator: Ms. Thin Lei Win, Food Security Correspondent, Thomson Reuters Foundation – Italy
11:15	GRASSROOTS SPOTLIGHT: Farming on the frontlines of marginal environments <i>Gauging the impact of farming in marginal environments in the face food security challenges</i> <i>Impact on Farmers</i> Panelists: <ul style="list-style-type: none"> Mrs. Fatiha Charradi, Vice President of Agricultural Development - Domestic Market, OCP Group – Morocco Ms. Jane Ininda, Associate Program Director, Alliance for a Green Revolution (AGRA) - Kenya Ms. Rosemary Nenini, Coordinator, Twala Women's Group - Kenya Mr. Bektashev Jakhongir Rakhimovich, Farm Manager, "Baxt Imkon Rivoj Chorvasi" farming entity, Uzbekistan Ms. Ejazie Juliet, Farm Manager, Dozliet Anim Farms, Nigeria and Volunteer, Climate Smart Agriculture Youth Network Mrs. Alem Greiling, Founder and CEO, Nutri-Dense, Ethiopia Moderator: Mr. Ben Deighton, Managing Editor, SciDev.Net – UK
11:50	Morning Break

Scientific Programme - Stream B [Adaptation] Crop Diversity and Improvement (CDI)		Scientific Programme - Stream C [Mitigation] Sustainable Natural Resource Management	
12:15	Chairperson: Dr. Dennis Rangi, Director General, Development, CABI - Kenya Rapporteur: Dr. Habtamu Giday Gebraegziabher, ICBA	12:15	Chairperson: Dr. Javier Mateo-Sagasta, Senior Researcher, International Water Management Institute, Sri Lanka Rapporteur: Dr. Ahmad Al Naggar, ICBA
12:20	KEYNOTE: Sheltered Cultivation' as a sustainable and innovative model for family farmers on the marginal dryland area to achieve SDGs H.E. Dr. Mohammad Hossein Emadi, Permanent Representative to FAO, Chair of COAG, IR Iran	12:20	KEYNOTE: Improving water management in Upper Egypt: an integrated model through water saving - energy saving - food security nexus. Dr. Abdou, D. A. K., Egypt Network for Integrated Development - Egypt
12:50	How can quinoa value chain improve food and income security in marginal environments? Success story from Morocco Dr. Hirich Abdelaziz, Horticulture Scientist, ICBA - UAE	12:50	Understanding trends in non-consumed irrigation water, with implications for irrigation efficiency, using field and remote sensed analysis: A case study of the North Jordan Basin Dr. E. Michael Gilmont, University of Oxford – United Kingdom
13:10	The role of a robust seed system on climate change mitigation: where are we? Evidence from Tanzania Dr. Bilaro, A. L., Tanzania Agricultural Research Institute (TARI), Tanzania	13:10	The efficient use of water for food production through sustainable crop management: Kingdom of Bahrain Dr. Salma Bani, Ministry of Municipality and Urban Planning - Bahrain
13:30	Lunch		
Crop Diversity and Improvement (CDI) (Cont.)		Sustainable Natural Resource Management (SNRM) (Cont.)	
14:30	Productivity of cultivation of the <i>Astragalus unifoliolatus</i> Bge. on saline soils Dr. Ishankulova D., Jizzakh State Pedagogical Institute -Uzbekistan	14:30	Environmental sustainability and financial cost of reusing gasfield-produced water for agricultural irrigation in hyper-arid environment Dr. Alban Echchel, Cranfield University – United Kingdom
14:50	Integrated solutions for saline agriculture using nuclear and isotopic technologies Dr. Ivan Ingelbrecht, Head, Plant Breeding and Genetics Laboratory, IAEA, Austria	14:50	Managing soil salinity and sodicity in a west texas golf course irrigated with treated wastewater Dr. G. K. Ganjegunte, Professor, Texas A&M University, USA
15:10	Staple food biofortifications against global micronutrient deficiencies for enhanced dietary mineral absorption Prof. AA Egal, Centre of Sustainable Livelihoods of the Vaal University of Technology - South Africa	15:10	Plant Adaptation for soil constraints in north eastern Australia Dr. Yash Dang, Senior Research Fellow, University of Queensland - Australia
15:25	Chairman's Remarks	15:25	Chairman's Remarks

Main Programme (Cont.) – Stream A: Business & Policy Sessions

12:15 **KEYNOTE: Come dine with me 2050 edition – what's on the menu, and what's out of stock?**

Nutrition

Mr. Patrick Crowley, **Founder, Chapul – USA**

12:30

Nutrition

PANEL DISCUSSION: Global nutrition trends, capabilities and emergencies

Panelists:

- H.E. Dr. Tariq Al Gurg, Chief Executive Officer, **Dubai Cares - UAE**
- Prof. Afaf Kamal Eldin, College of Food and Agriculture, **UAU, UAE**
- H.E. Dr. Mariam Mohamed Fatima Matar, Founder and Chairperson, **UAE Genetic Diseases Association – UAE**
- Dr. Salwa Karboune, Associate Dean (Research) – McGill University and Scientific Director, Consortium for Research, **Innovation and Transformation of Agrifood – Canada**
- Mr. Patrick Crowley, Founder, **Chapul – USA**
- Ms. Randa Habib, Scientific & Regulatory Affairs Manager, **First Food Consultancy - UAE**

Moderator: Ms. Thin Lei Win, Food Security Correspondent, **Thomson Reuters Foundation – Italy**

13:00

Genomics

PANEL DISCUSSION: Genomics – a sign of the apocalypse or the answer?

Genomics innovation, impact and ethics in new frontiers.

Panelists:

- Dr. Ren Wang, **BGI – China**
- Dr. Nina Fedoroff, Evan Pugh Professor Emerita, **Penn State University - USA**
- Prof. Benildo de los Reyes, Bayer Crop Science Endowed Chair in Plant Genomics and Associate Department Chair for Research and Graduate Programs – Department of Plant and Soil Science, **Texas Tech University – USA**
- Dr. Ismahane Elouafi, Director General, **ICBA - UAE**

Moderator: Mr. Ben Deighton, Managing Editor, **SciDev.Net – UK**

13:30

Lunch

Main Programme (Cont.): Business & Policy Sessions

14:15

Future-Proofing Strategies

PANEL DISCUSSION: Trailblazers breaking new ground - projects and policies

Panelists:

- Dr. Adil Bushnak, Chairman, **Bushnak Group - Saudi Arabia**
- H.E. Yerlan Baidaulet, Director General, **Islamic Organization for Food Security - Kazakhstan**
- Mr. Babar Bajwa, Regional Director (Central West Asia), Project Leader ACIAR, **CABI – Pakistan**
- Dr. Samuel Gameda, Senior Soil Scientist, **International Maize and Wheat Improvement Centre – Ethiopia**
- Dr. Marcus Thomson, Research Scholar – Food, Agriculture, Biodiversity, Land use and Energy (FABLE) Consortium - **International Institute for Applied Systems Analysis (IIASA) – Austria**

Moderator: Ms. Seta Tutundjian, Director of Programs, **ICBA – UAE**

15:30 Afternoon Break			
Climate-Smart Agriculture for Food Security (CSA-FS)		Management of Marginal Environments (MME)	
15:45	<p>Chairperson: Dr. Abdelbagi M. Ismail, Principal Scientist and IRRI Representative for Africa, International Rice Research Institute (IRRI) - Kenya</p> <p>Rapporteur: Dr. Henda Mahmoudi, ICBA</p>	15:45	<p>Chairperson: Dr. Samuel Gameda, Senior Soil Scientist, International Maize and Wheat Improvement Centre, Ethiopia</p> <p>Rapporteur: Dr. Zied Hammami, ICBA</p>
15:50	<p>KEYNOTE: New paradigms for an old science: Exploring the epigenome to breed the new generation of ecologically resilient crops for the 21st century</p> <p>Prof. Benildo de Los Reyes, Bayer Crop Science Endowed Chair in Plant Genomics and Associate Department Chair for Research and Graduate Programs - Department of Plant and Soil Science, Texas Tech University - USA</p>	15:50	<p>KEYNOTE: Improving water use efficiency in response to water scarcity in marginal areas</p> <p>Dr. Khalil Ammar, Program Leader, Sustainable Natural Resources Management, Principal Scientist - Hydrology/Hydrogeology, ICBA, UAE</p>
16:15	<p>Pearl millet: climate smart and nutritious food, feed and forage crop for the marginal environments</p> <p>Dr. S.K. Gupta, Principal Scientist, ICRISAT, India</p>	16:15	<p>Plant growth promoting rhizobacteria and enriched compost to enhance growth of crops under saline condition</p> <p>Dr. Ahmed Al-Busaidi, Department of Soils, Water and Agricultural Engineering, College of Agricultural & Marine Sciences, Sultan Qaboos University, Oman</p>
16:35	<p>New insights on the nutritional profile of halophytic crops grown in a modular farming system utilizing the reject brine from desalination</p> <p>Dr. Dionysia Lyra, Halophyte Agronomist, ICBA, UAE</p>	16:35	<p>Enhanced animal feeding using agricultural byproducts and innovative technologies in the Arabian Peninsula</p> <p>Dr. Muhi El-Dine Hilali, ICARDA, Amman-Jordan</p>
16:50	<p>Abiotic stress responses in plants: salinity, drought, flooding and extreme temperatures</p> <p>Dr. Eman Musa Kadhum, Agricultural Academy, Bulgaria</p>	16:50	<p>Revitalising salinized degraded lands. Agro-economic analysis focusing on saline agriculture</p> <p>Dr. Katarzyna Negacz, Wadden Academy/IVM-VU – Netherlands</p>
17:05	Chairman's Remarks	17:05	Chairman's Remarks
17:30 Close of Food Security and Innovation Day			

15:00

Controlled
Environment
Agriculture**DEBATE: Can sky high innovation deliver on sky high expectations?***Can controlled environment agriculture mitigate our biggest challenges?***Panelists:**

- Mr. Abdulaziz Al Mulla, Cofounder and CEO, **Madar Farms – UAE**
- Mr. Ronald de Ruiter, Founder, **GrowArabic BV - UAE**
- Mr. Yazen Al Kodmani, Operations Manager, **Emirates BioFarm - UAE**
- Dr. Habtamu Giday Gebraegziabher, Post-doctoral Fellow: Urban and Vertical Farming, **International Center for Biosaline Agriculture – UAE**
- Mr. Hans Hassle, Co-Founder, **Plantagon - Sweden**

Moderator: Mr. Ben Deighton, Managing Editor, **SciDev.Net – UK**

15:30

Afternoon Break

15:45

INTERACTIVE ROUNDTABLE DISCUSSIONS: Affordable agri-innovation*Each roundtable duration is 20 minutes; participants will be able to take part in three interactive discussions of their choice for the hour.***Topics and Facilitators:****Big Data & Blockchain** Mr. Deepak Pareek, CEO and Founder, **Digi Agri – India****Remote Sensors** Mr. Murali Krishna Gumma, Head, GIS and Remote Sensing Lab, **ICRISAT - India****Drones** Dr. Ali Elbattay, Senior Scientist – Remote Sensing and Drones Technology, **ICBA - UAE****Platforms & Apps** Dr. Khalil Ammar, Principal Scientist, **ICBA - UAE**

16:45

Close of Day 1 - Main Programme: Business & Policy Sessions

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Climate Impact and Sustainability Day

Thursday, 21 November 2019

09:15	Morning Refreshments & Networking
09:40	Welcome From GFIME Chairperson
09:45	Opening Address: Engaging youth, future leaders of climate impact progress Dr. Tarifa Alzaabi, Deputy Director General, ICBA - UAE
09:50	Regional Address: The scary new normal – a climate in crisis Mr. Rachid Serraj, Author of Agriculture and Food Systems to 2050 (2018) and Senior Project Officer/Delivery Manager for the Regional Initiative on Small Scale Family Farming, Regional Office in Near East and North Africa, Food and Agriculture Organization of the United Nations (FAO) – Egypt
10:10 <i>Sustainability</i>	PANEL DISCUSSION: Is it too late to develop a sustainability strategy centered on circularity? <i>How can agri systems be reimaged? How quickly can we mobilize change? How can improved systems better manage resources, waste and carbon?</i> <i>Panelists:</i> <ul style="list-style-type: none"> • Mr. Eduardo Mansur, Director – Land and Water Division, Food and Agriculture Organization of the United Nations (FAO) • Dr. Javier Mateo – Sagasta, Senior Researcher, International Water Management Institute (IWMI) – Sri Lanka • Mr. Mohamed Aissaoui, Founder, My Farm – UAE • Ms. Habiba Al Marashi, CoFounder and Chairperson, Emirates Environmental Group (EEG) - UAE <i>Moderator:</i> Ms. Seta Tutundjian, Director of Programs, ICBA – UAE
10:50 <i>Climate in Crisis</i>	PANEL DISCUSSION: Giving a Face to the Name – Tracking Climate Impact's Irreversible Consequences <i>The increasing urgency of marginal environment innovation as we approach the point of no return.</i> <i>Panelists:</i> <ul style="list-style-type: none"> • Ms. Roula Majdalani, Director – Sustainable Development and Productivity Division, Economic and Social Commission for Western Asia (ESCWA) – Lebanon • Prof. R. Quentin Grafton, Chairholder - UNESCO Chair in Water Economics and Transboundary Water Governance, Australian National University – Australia • Dr. Abdelbagi M. Ismail, Principal Scientist and IRRI Representative for Africa, International Rice Research Institute (IRRI) - Kenya • Dr. Asad Qureshi, Senior Scientist – Irrigation and Water Management, ICBA - UAE • Mr. Rashyd Zaaboul, Modeler - Climate Change, ICBA, UAE <i>Moderator:</i> Mr. Ben Deighton, Managing Editor, SciDev.Net – UK
11:30	Morning Break
Main Programme (Cont.) – Stream A [Business & Policy Sessions]	
12:00 <i>Clean Energy</i>	PANEL DISCUSSION: Clean Energy – Can Marginal Environments Benefit? <i>Exploring alternative energy sources and the agricultural implications.</i> <i>Panelists:</i> <ul style="list-style-type: none"> • Dr. Alejandro Rios Galvan, Director, Sustainable Bioenergy Research Consortium (SBRC) – UAE • Mr. Anup Isaac, Country Director, Yellow Door Energy - UAE • Prof. Yassir Makkawi, Professor of Chemical Engineering, American University of Sharjah (AUS) - UAE <i>Moderator:</i> Ms. Thin Lei Win, Food Security Correspondent, Thomson Reuters Foundation – Italy

**Scientific Programme – Stream B [Adaptation]
Novel Biotechnological Approaches (NBA)**

12:00 Chairperson: Dr. Salwa Karboune, Associate Dean (Research) – McGill University and Scientific Director, Consortium for Research, **Innovation and Transformation of Agrifood – Canada**

Rapporteur: Dr. Hifzur Rahman, ICBA

12:05 **KEYNOTE:** Practice of Whole Genome Molecular Marker Assisted Breeding in BGI

Dr. Gengyun Zhang, **BGI - China**

12:30 Genetic Characterization of salinity tolerance traits to increase salinity tolerance in crops

Prof. Mark Tester, **King Abdullah University of Science & Technology, Saudi Arabia**

12:50 Transcriptomic analysis of salt tolerance responsive genes in shoots and roots of two contrasting barley genotypes

Dr. R Nefissi Ouertani, **University of Tunis El Manar, Tunisia**

13:10 Hunting for the new players for stress tolerance in plants

Prof. Ashwani Pareek, **JNU, India**

13:30 **Lunch**

14:15 Genomics in Precision Agriculture

Dr. Tong Wei, **BGI, China**

14:35 The date palm genomics project at NYU Abu Dhabi: recent advances and future directions

Dr. Muriel Gros-Balthazard, **NYU Abu Dhabi, UAE**

14:55 Chairperson's Remarks

15:05 **Break**

**Scientific Programme – Stream C [Mitigation]
Climate Change Impact on Agriculture (CCIA)**

12:00 Chairperson: Ms. Roula Majdalani, Director - Sustainable Development and Productivity Division, **Economic and Social Commission for Western Asia (ESCWA) – Lebanon**

Rapporteur: Dr. Jamaliah Hani Aburabie, ICBA

12:05 **KEYNOTE:** The Future and Suitability of Vertical Farming in Arid Region: UAE Case Study

Dr. Mohamed A. Dawoud (Dawoud, MA) **Environment Agency – Abu Dhabi, UAE**

12:30 Mitigating climate change impacts by applying scientific knowledge to community-based rangeland restoration practices in Jordan

Dr. Alnsour, M Musa, **WADI for Sustainable Ecosystem Development NGO, Jordan**

12:50 The Economic Impact of production Salt-tolerant Crops to Resilience climate change in Egypt (case study New valley Governorate)

Dr. Sherine Fathy Mansour, Associate Professor of Agricultural Economic Socio-Economic Division, **Desert Research Center, Egypt**

13:10 Vulnerability of agricultural ecosystems in Bulgaria to climate change

Dr. Martin Banov, **Agricultural Academy Sofia, Bulgaria**

14:15 Use of oilfield produced elemental sulphur in agriculture in a water scarce and infertile Iraqi environment

Ms. Teulon C., **RSK environment, Dubai, UAE**

14:35 Climate-smart programming for Food Security: evidence from Southern Madagascar

Ms. Afia Fosua Agyekum, **Adventist Development and Relief Agency, USA**

14:55 Chairperson's Remarks

12:45	<p>PANEL DISCUSSION: Are We All Destined To Become Climate Refugees? <i>Can industry transparency and climate-smart strategies save us from water scarcity crises, sustainability failures and rising temperatures?</i></p> <p><i>Research and Policy Without Borders</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> • H.E Dr. Hussein Al Mahmoudi, CEO, Sharjah Research Technology and Innovation Park – UAE • Dr. Jacques Wery, Deputy Director General – Research, ICARDA - Egypt • Ms. Kata Molnar, Independent water risk and policy analyst, Hungary • Mr. Joseph Lentunyoi, Director and Founder, Laikipia Permaculture Center - Kenya <p>Moderator: Ms. Seta Tutundjian, Director of Programs, ICBA – UAE</p>
13:30	Lunch
14:15	<p>DEDICATED SESSION: Launching the GSP International Network of Salt Affected Soils (INSAS)</p> <p><i>Sustainable Future</i></p> <p>Hosted by: Food and Agriculture Organization of the United Nations (FAO)</p> <p>The International Network of Salt-Affected Soils (INSAS)</p> <p>The International Network of Salt-Affected Soils (INSAS) is to be established, under the aegis of the Global Soil Partnership (GSP), with the aim to facilitate the sustainable and productive use of salt-affected soils for current and future generations. The mission of INSAS is to support and facilitate joint efforts towards the sustainable management of salt-affected soils for food security, agricultural sustainability and climate change adaptation and mitigation.</p>
14:15	Opening of the meeting Mr. Eduardo Mansur, Director Land and Water Division, FAO
14:25	Opening address Dr. Ismahane Elouafi, Director-General, ICBA
14:30	Introduction to the International Network of Salt-Affected Soils Ms. Zineb Bazza, GSP Secretariat, FAO
14:40	The importance of INSAS for natural resource management H.E Mohammad Hossein Emadi, Permanent Representative of the Islamic Republic of Iran to FAO and Chair of the Committee of Agriculture of FAO
14:50	The status of salt-affected soils in NENA with a focus on Iraq Dr. Hassan Kutaiba, Intergovernmental Technical Panel on Soils (ITPS), Ministry of Agriculture, Iraq
15:00	The status of salt-affected soils in Eurasia with a focus on Uzbekistan Dr. Gulchekhra Khasankhova, UZGIP Institute, MAWR, Uzbekistan
15:10	The status of salt-affected soils and spatial modelling of the soil salinity variation in Senegal Dr. Macoumba Loum, Ministère de l'Agriculture et de l'Équipement Rural, Senegal
15:20	The status of salt-affected soils in Africa with a focus on Djibouti Dr. Mohamed Egueh, Djibouti Ministry of Higher Education and Research, Djibouti
15:30	Discussion All participants
15:55	Closing of meeting Mr. Eduardo Mansur, Director Land and Water Division, FAO
16:00	GFIME closing remarks Ms. Seta Tutundjian, Director of Programs, ICBA – UAE
16:10	Close of GFIME 2019

Flash talks

15:20

Adaptation Stream

Chairperson: Dr. Kanayo F. Nwanze, Fifth President, International Fund for Agricultural Development, Chairman & Chief Executive Officer, **FAYODE, Nigeria**

Rapporteur: Dr. Mohammad Shahid, ICBA

Topics:

1. *Diversity of cowpea landraces [Vigna unguiculata (L.) (Walp.)] as potential alternative grain legumes in Bulgaria* Dr. T. Stoilova, Institute of Plant Genetic Resources, Bulgaria
2. *Delivering 'off grid' nutritionally enriched tilapia to low income countries* Mr. P. N. Howes, Swansea University, UK
3. *Adoption and household welfare impacts of high yielding sorghum varieties intensification in semi-arid Zimbabwe* Dr. Joseph P. Musara, Bindura University of Science Education, Zimbabwe
4. *Manganese repairs oxygen evolving complex (OEC) in maize (Zea mays L.) damaged during sea water vulnerability* Dr. Gupta Ramwant, Fiji National University, Lautoka, Fiji Islands
5. *Breeding for drought tolerance in durum wheat in Bulgaria* Dr. Todorovska. E, Agricultural Academy, Bulgaria
6. *Colocynth: a potential biofuel crop for the marginal lands* Dr. Mohammad Shahid, ICBA,
7. *Algacraft: automated bioreactors for optimizing alga production* Dr. Mate Ravasz, Algacraft LTD, UK
8. *Understanding and improving forage yield and quality traits in pearl millet* Drs. Govinatharaj Ponnaiah and S.K. Gupta, ICRISAT - India
9. *Implementation of keynote gardens system for family farming and food security in Ibo Island, Northern Mozambique, Africa* Dr. Gelica Eugenio Inteca, Lurio University, Mozambique
10. *Biocontrol of Aflatoxigenic Fungi in Grains using Atoxigenic Strains: Implications for Food Safety and Food Security* Ms. Onyeka Okeke, University of Jos, Nigeria
11. *Breeding for drought tolerance : New insights towards better selection efficiency to deliver climate resilient bread wheat varieties under unpredictable Moroccan environments* Dr. Sahar Bennani, National Institute of Agricultural Research, Morocco
12. *Future of Water in Agriculture* Dr. David Paulson, Agritech Consultant – Agrosolution, UAE

15:20

Mitigation Stream

Chairperson: Dr. Salma Balazadeh, Associate professor, **Leiden University - The Netherlands**

Rapporteur: Ms. Arzoo Malhotra, ICBA

Topics:

1. *Economic assessment, adoption and factors determining adoption of agricultural technologies by smallholders farmers: evidence from analysis in Arabian Peninsula* Dr. Boubaker Dhehibi, ICARDA, Jordan
2. *Irrigation cooling effects to control heat wave in orchard fruit : evaluation of irrigation methods* Dr. Tommaso Letterio, Canale Emiliano Romagnolo irrigation consortium, Italy
3. *Optimizing quinoa cultivation with saline irrigation water: evidences from UAE farms* Dr. Rodriguez J.P., ICBA, UAE
4. *Spatial modeling of the soil salinity variation in the Peanut basin of Senegal* Dr. Macoumba Loum, National Institute of Pedology, Agricultural Ministry and Rural Equipment, Senegal
5. *Enhanced climate change resilience and improved livelihoods of vulnerable rural communities Migori County, Kenya* Mr. Frank Wesonga, Project Manager, African Alliance for Health Research Economic Development, Kenya
6. *Dynamic of salts in the soils of Middle Euphrates basin under conditions of flooding and sprinkler leaching methods* Dr. Ahmad Ghazi Majar, Administration of Natural Resource Research-General Commission for Scientific Agricultural Research, Syria
7. *Effect of sowing techniques on yield and rainfall productivity pearl millet in gardud soil of North Kordofan state* Dr. H.K.Sawsan, Agricultural Research Corporation, Sudan
8. *Capacity Development for Bridging the Digital Divide in Agriculture* Mrs. Foteini Zampati, GODAN, KTBL, Germany
9. *Modeling Current and Future Climate Change in the UAE using Various GCMs in MarksimgCM* Ms. Latifa Saeed Al Blooshi, UAE University - UAE
10. *Pennisetum purpureum (Napier grass) varieties for Animal Fodder Production* Dr. Ramachandran Subramanian, BITS-Pilani, UAE
11. *Automated Drip Irrigation System Modeling for Olive Orchards with EPIC* Dr. Amani Bchir, Institut de l'Olivier, Tunisia

16:30

Comments of Chair from Flash Talk sessions followed by 'Open Session on "Synthesis and Integration" with whole International Scientific Advisory Committee addressing the accomplishments of science (and GFIME) and the gaps remaining; how to fill these gaps?

17:30

Close of GFIME 2019

Speakers



H.E. Mariam bint Mohammed Almheiri
Minister of State for Food Security, UAE



H.E. Sarah bint Yousif Al Amiri
Minister of State for Advanced Sciences, UAE



H.E. Dr. Sidi Ould Tah
Director General, Arab Bank for Economic Development in Africa, Egypt



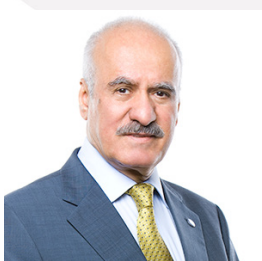
Mr. Ayman Amin Sejiny
General Manager (CEO) of ICD, Saudi Arabia



Dr. Kanayo F. Nwanze
Fifth President, International Fund for Agricultural Development Chairman & CEO, FAYODE, Nigeria



Dr. Ren Wang
Senior Vice President of the BGI Group, President, BGI Global Development, China



Dr. Suleiman Al-Herbish
Former Director General, OPEC Fund for International Development (OFID), KSA



Dr. Nina Fedoroff
Emeritus Professor of Biology, Penn State University, USA



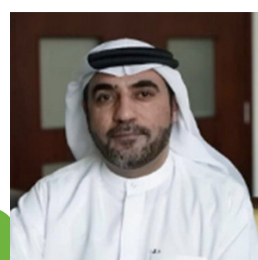
Dr. José Graziano da Silva
Eighth Director General, Food and Agriculture Organization of the United Nations, Brazil



H.E. Mohammed Mohammed Saleh
Director General, Federal Electricity and Water Authority, UAE



Dr. Ismahane Elouafi
Director General, ICBA, UAE



H.E. Dr. Hussein Al Mahmoudi
CEO, Sharjah Research Technology and Innovation Park (SRTI Park), UAE



Ms. Hajbouha Zoubair
President,
Phosboucraa
Foundation, Morocco



Dr. Adil Bushnak
Chairman, Bushnak
Group - Saudi Arabia



Mr. Soud Ba'alawy
Chairman, Enspire,
UAE



Prof. Afaf Kamal Eldin
College of Food
and Agriculture,
United Arab Emirates
University, UAE



Dr. Dennis Rangi
Director General,
Development, CABI-
Kenya



Dr. Tarifa Al Zaabi
Deputy Director
General, ICBA, UAE



Dr. Jacques Wery
Deputy Director
General – Research,
ICARDA - Egypt



Dr. Ursula Schaefer-Preuss
Former Director
General, Federal
German Ministry for
Economic Cooperation
and Development,
Germany



Ms. Habiba Al Marashi
CoFounder and
Chairperson, Emirates
Environmental Group,
UAE



H.E. Dr. Tariq Al Gurg
Chief Executive Officer,
Dubai Cares, UAE



H.E. Dr. Mohammad Hossein Emadi
Permanent
Representative to FAO,
Chair of COAG, IR Iran



H.E. Dr. Maryam Mohamed Fatma Matar
Founder and
Chairperson, UAE
Genetic Diseases
Association – UAE



H.E. Mr. Yerlan A. Baidaulet
*Director General,
 Islamic Organisation
 for Food Security –
 Kazakhstan*



Prof. Benildo G. de los Reyes
*Bayer Crop Science
 Endowed Chair in
 Plant Genomics and
 Associate Department
 Chair for Research and
 Graduate Programs,
 Department of Plant
 and Soil Science,
 Texas Tech University,
 USA*



Prof. Yassir Makkawi
*Professor of Chemical
 Engineering, American
 University of Sharjah
 (AUS) - UAE*



Ms. Roula Majdalani
*Director - Sustainable
 Development and
 Productivity Division,
 Economic and Social
 Commission for
 Western Asia (ESCWA)
 – Lebanon*



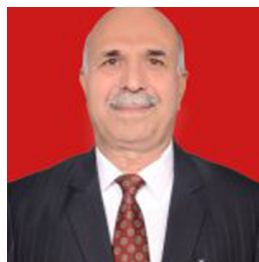
Mrs. Fatiha Charradi
*Vice President
 of Agricultural
 Development -
 Domestic Market, OCP
 Group – Morocco*



Prof. R. Quentin Grafton
*Chairholder,
 UNESCO Chair in
 Water Economics and
 Transboundary Water
 Governance, Australia*



Mr. Eduardo Mansur
*Director, Land and
 Water Division, Food
 and Agriculture
 Organization of the
 United Nations*



Dr. P. C. Sharma
*Director, Central Soil
 Salinity Research
 Institute (CSSRI), India*



Dr. Alejandro Rios Galvan
*Director, Sustainable
 Bioenergy Research
 Consortium, UAE*



Mr. Rachid Serraj
*Senior Project Officer,
 Delivery Manager for
 the Regional Initiative
 on Small Scale Family
 Farming, Regional
 Office in Near East
 and North Africa,
 Food and Agriculture
 Organization of the
 United Nations, Egypt*



Ms. Seta Tutundjian
*Director of Programs,
ICBA, UAE*



Dr. Samuel Gameda
*Senior Soil Scientist,
International Maize and
Wheat Improvement
Centre, Ethiopia*



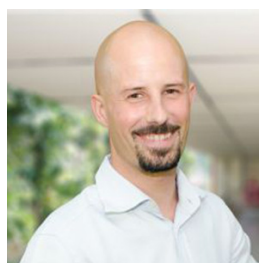
Ms. Salma Bani
*Senior Executive
Program Planning,
Ministry of Municipality
and Urban Planning -
Bahrain*



Dr. Salwa Karboune
*Associate Dean
(Research),
Faculty of Agricultural
and Environmental
Sciences,
McGill University,
Canada*



Dr. Marcus Thomson
*Research Scholar –
Food, Agriculture,
Biodiversity, Land
use and Energy
(FABLE) Consortium -
International Institute
for Applied Systems
Analysis (IIASA) –
Austria*



Dr. Javier Mateo-Sagasta
*Senior Researcher,
International Water
Management Institute,
Sri Lanka*



Dr. Khalil Ammar
*Principal Scientist
in Hydrology/
Hydrogeology and
Head of Sustainable
Natural Resources
Management Section,
ICBA, UAE*



Dr. Martin Banov
*President, Agricultural
academy, Bulgaria*



**Dr. Asad Sarwar
Qureshi**
*Senior Scientist in
Water and Irrigation
Management, ICBA,
UAE*



Ms. Jane Ininda
*Associate Program
Director, Alliance for
a Green Revolution
(AGRA), Kenya*



Prof. Abderrazak Bannari
*Arabian Gulf University,
 Kingdom of Bahrain*



Dr. Abdelbagi M. Ismail
*Principal Scientist and
 Representative for
 Africa, International
 Rice Research
 Institute, Kenya*



Dr. Girisha K Ganjgunte
*Professor, Texas A&M
 University, USA*



Prof. Mark Tester
*King Abdullah
 University of Science
 & Technology, Saudi
 Arabia*



Dr. Abdelaziz Hirich
*Horticulture Scientist,
 ICBA, UAE*



Dr. Babar Bajwa
*Regional Director
 (Central West Asia),
 Project Leader ACIAR,
 CABI – Pakistan*



Dr. Dionysia Angeliki Lyra
*Halophyte Agronomist,
 ICBA, UAE*



Dr. Ali Elbattay
*Senior Scientist -
 Remote Sensing and
 Drones Technology,
 ICBA - UAE*



Dr. Tong Wei
*Interim Director, Desert
 Life Sciences Center,
 ICBA
 Program Leader,
 Agricultural Genomics
 Center, BGI-Research,
 China*



Gélica Eugénio Inteca
*Lecture and
 Deputy Director of
 postgraduate, research
 and extension, Faculty
 of Natural Sciences,
 Lurio University -
 Mozambique*



Prof. Mohsen Disher
*Professor, University
 of Basrah College of
 Agriculture - Iraq*



Dr. Ahmed Al-Busaidi
*Department of Soils,
 Water and Agricultural
 Engineering, College of
 Agricultural & Marine
 Sciences, Sultan
 Qaboos University,
 Oman*

Ms. Afia Fosua

*Agyekum
ADRA, USA*



Dr. Salma Balazadeh

*Associate professor,
Leiden University - The
Netherlands*



Prof. Ashwani Pareek

*Jawaharlal Nehru
University, India*



Mr. Rashyd Zaaboul

*Modeler - Climate
Change, ICBA, UAE*



**Dr. Murali Krishna
Gumma**

*Head, GIS and Remote
Sensing Lab, ICRISAT,
India*



**Dr. E. Michael
Gilmont**

*Research Fellow,
University of Oxford –
United Kingdom*



Dr. Alban Echchelh

*Postdoctoral research
assistant, Cranfield
University – United
Kingdom*



Dr. Yash Dang

*Senior Research
Fellow, University of
Queensland - Australia*



Dr. Muhi El-Dine Hilali

*Researcher, ICARDA,
Amman-Jordan*



Dr. Katarzyna Negacz

*Researcher, Wadden
Academy/IVM-VU –
Netherlands*



Dr. Rim Nefissi

*Ouertani
Assistant Professor,
University of Tunis El
Manar, Tunisia*



Dr. Ivan Ingelbrecht

*Head, Plant Breeding
and Genetics
Laboratory, IAEA,
Austria*

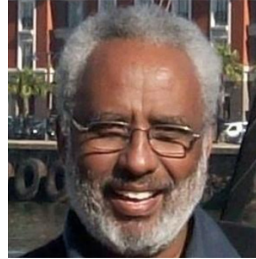
Dr. D. Ishankulova
*Jizzakh State
Pedagogical Institute -
Uzbekistan*



Dr. Muriel Gros-Balthazard
*Center for Genomics
and Systems Biology,
New York University
Abu Dhabi - UAE*



Dr. Gengyun Zhang
*Chief Scientist on
Agriculture, BGI-
Research, BGI - China*



Prof. Abdulkadir Egal
*Director, Centre of
Sustainable Livelihoods
of the Vaal University
of Technology - South
Africa*



**Dr. Sherine Fathy
Mansour**
*Associate Professor of
Agricultural Economic
Socio-Economic
Division, Desert
Research Center,
Cairo, Egypt*



**Dr. Shashi Kumar
Gupta**
*Principal Scientist -
Pearl Millet Breeding,
ICRISAT, India*



**Mr. Bektashev
Jakhongir
Rakhimovich**
*Farm Manager, "Baxt
Imkon Rivoj Chorvasi"
farming entity,
Uzbekistan*



**Dr. Eman Musa
Kadhum**
*Chief Expert,
Agricultural Academy,
Bulgaria*



**Dr. Mohamed A.
Dawoud**
*Manager, Water
Resources
Department,
Environment Agency –
Abu Dhabi, UAE*



Ms. Ejezie Juliet
*Farm Manager, Dozliet
Anim Farms, Nigeria
and Volunteer, Climate
Smart Agriculture
Youth Network*



Dr. Dyaa Abdou
*Director, Sustainable
Agricultural
Development, Egypt*



**Dr. Suresh Kumar
Chaudhari**
*NRM Division, KAB-
II, Indian Council of
Agricultural Research,
India*



Dr. Juan Pablo Rodríguez Calle
*Post-Doctoral Fellow,
 International Center for
 Biosaline Agriculture,
 UAE*



Dr. Habtamu Giday Gebraegziabher
*Post-doctoral Fellow:
 Urban and Vertical
 Farming, ICBA, UAE*

Dr. Mohammad Alnsour
*Natural Resources
 Manager, WADI for
 Sustainable Ecosystem
 Development NGO,
 Jordan*



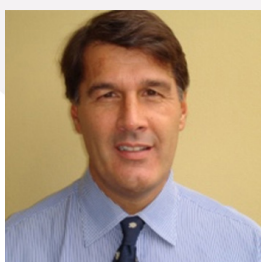
Ms. Cyndi Teulon
*Environmental Advisor,
 RSK Environment, UAE*



Mr. Hans Hassle
*Co-Founder, Plantagon
 – Sweden*



Ms. Randa Habib
*Scientific & Regulatory
 Affairs Manager- First
 Food Consultancy,
 Dubai, UAE*



Mr. Ronald de Ruiter
*Founder, GrowArabic
 BV - UAE*



Mr. Deepak Pareek
*CEO and Founder, Digi
 Agri, India*



Ms. Kata Molnar
*Independent water
 risk and policy analyst,
 Hungary*



Mr. Anup Isaac
*Country Director,
 Yellow Door Energy -
 UAE*



Mr. Joseph Lentunyoi
*Director and Founder,
 Laikipia Permaculture
 Center, Kenya*



Dr. Alex Ariho
*CEO, African
 Agribusiness
 Incubators Network,
 Ghana*



Mr. Patrick Crowley
Founder, Chapul, USA



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*Coordinator, Twala
Women's Group, Kenya*



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*Founder and CEO,
Nutri-Dense, Ethiopia*



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Aissaoui**
*Founder, My Farm,
UAE*



**Mr. Abdulaziz Al
Mulla**
*Co-Founder and CEO,
Madar Farms, UAE*



Mr. Yazen Al Kodmani
*Operations Manager,
Emirates BioFarm,
UAE*



The International Center for Biosaline Agriculture (ICBA) is a unique applied agricultural research center in the world with a focus on marginal areas where an estimated 1.7 billion people live. It identifies, tests and introduces resource-efficient, climate-smart crops and technologies that are best suited to different regions affected by salinity, water scarcity and drought. Through its work, ICBA helps to improve food security and livelihoods for some of the poorest rural communities around the world.

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