

Seminar on the role of plant breeding and plant variety protection in enabling agriculture to mitigate and adapt to climate change

UPOV/SEM/GE/22/1

Geneva, October 11 and 12, 2022 (virtual meetings) and October 26, 2022 (hybrid meeting)**Original:** English
Date: May 31, 2022**DRAFT PROGRAM***prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance***Tuesday, October 11, 2022**

- 13.00 **Welcome and opening remarks**
Mr. Daren Tang, Secretary-General, UPOV
- 13.10 **Program and organization of the Seminar**
Mr. Peter Button, Vice Secretary-General, UPOV

Thematic SESSION 1: Climate change and its impact on agricultural production

- 13.15 **Introduction**
Moderator: Mr. Marien Valstar, President of the Council, UPOV
- 13.20 **Key note presentation - Impacts and risks for agriculture from climate change: adaptation solutions and the role of new plant varieties**
(speaker tbc)
- 13.40 **World Farmers' Organization perspective**
Ms. Arianna Giuliadori, Secretary-General, WFO
- 13.50 **International Seed Federation perspective**
Mr. Michael Keller, Secretary-General, ISF
- 14.00 **International Community of Breeders of Asexually Reproduced Horticultural Plants perspective**
Mr. Edgar Krieger, Secretary General, CIOPORA
- 14.10 **Conclusion of the session**
Moderator: Mr. Marien Valstar, President of the Council, UPOV

Thematic SESSION 2: Strategies to address climate change in agriculture

- 15.00 **Introduction**
Moderator: Mr. Yehan Cui, Vice-President of the Council, UPOV
- 15.05 **European Union strategy to address climate change in agriculture (tbc)**
Ms. Päivi Mannerkorpi, Team Leader - Plant Reproductive Material, Unit G1, Plant Health, Directorate General for Health and Food Safety (DG SANTE), European Commission
- 15.15 **Climate change: an opportunity for innovation in agriculture**
Mr. Solomon Gyan Ansah, Director of Agriculture & Head of the Seed Unit, Directorate of Crop Services, Ministry of Food and Agriculture, Ghana
- 15.25 **The role of plant breeding for adaptation to climate change in Mexico**
Ms. Sol Ortíz García, General Director of Prospective Policies and Climate Change, Ministry of Agriculture, Mexico
- 15.35 **Mitigation of climate change in agriculture**
Mr. Alexandre Lima Nepomuceno, Researcher, Brazilian Agricultural Research Corporation (EMBRAPA), Brazil
- 15.45 **Adaptation of agriculture/ farming systems to climate change: exploring genetic options**
Mr. George Prah, Deputy Director, Directorate of Crop Services, Ministry of Food and Agriculture, Queensland Alliance for Agriculture and Food Innovation, Ghana
- 15.55 **Questions**
- 16.15 **Conclusion of the session**
Moderator: Mr. Yehan Cui, Vice-President of the Council, UPOV

Wednesday, October 12, 2022**Thematic SESSION 3: Plant breeding for climate change adaptation and mitigation in agriculture: Crop perspectives**

- 09.00 **Introduction**
Moderator: Mr. Patrick Ngwediagi, Chair of the Administrative and Legal Committee, UPOV
- 09.05 **Breeding targets to improve wheat performance in drying climates: adapting wheat cropping systems to current and future climate change**
Mr. Greg Rebetzke, Research Genetist, Canberra, Australia
- 09.15 **New plant variety protection system and the cultivation of water-saving and drought-resistant rice**
Mr. Yu Zhang, Research associate, Shanghai Academy of Agricultural Sciences, China

- 09.25 **[topic tbd]**
Mr. Roland Peter, Head of the strategic research area "Plant Breeding", Agroscope, Switzerland
- 09.35 **SmartRice: a rice product grown using more sustainable methods to reduce the use of agricultural resources and provide more rice to meet the growing worldwide appetite**
Mr. Jose Re, Vice President, Global New Products Development – Rice Tech USA, United States of America
- 09.45 **Questions**
- 09.55 **Characterization of the flowering phenology of the varieties of the world olive tree collection in Morocco for the selection of genotypes adapted to climate change**
Ms. Hayat Zaher, Researcher, Marrakech Regional Agricultural Research Centre (CRR), National Institute for Agricultural Research (INRA), Morocco
- 10.05 **Climate change in the ornamental sector – A breeder's perspective**
Mr. Robert Boehm, Head of Biotechnology, Selecta One, Germany
- 10.15 **Adapting cereal varieties to climate change in the Nordic countries – which traits can plant breeding work with and which ones are much more difficult?**
Ms. Tina Henriksson, Group Manager Breeding, Cereals & Pulses & Senior winter wheat breeder, Swedish Company Lantmännen, Sweden
- 10.25 **Questions**
- 10.35 **Hot climate program: an apple breeding program for hot climate**
Ms. Lidia Lozano, Researcher, Institute of Agrifood Research and Technology (IRTA), Spain
- 10.45 **Grassroots breeding of future smart crops, better adapted to climate change: Learnings from Nepal's experience**
Mr. Pitambar Shrestha, Programme Advisor, Local Initiatives for Biodiversity, Research and Development (LI-BIRD), Nepal
- 10.55 **Vegetable company strategies to address the challenge of producing more food under increasingly harsh conditions and how the PBR system can help breeders to cope with such challenges**
Mr. Kees Knulst, Specialist Public Affairs / Communication & Public Affairs – Rijk Zwaan, Netherlands
- 11.05 **Questions**
- 11.15 **Conclusion of the session**
Moderator: Mr. Patrick Ngwediagi, Chair of the Administrative and Legal Committee, UPOV

Thematic SESSION 4: Plant breeding for climate change adaptation and mitigation in agriculture: breeding strategies and techniques

- 12.30 **Introduction**
Moderator: Mr. Manuel Toro Ugalde, Vice-Chair of the Administrative and Legal Committee, UPOV
- 12.35 **“A smart green future” and “climate resilience underpinning breeding programmes”**
Ms. Emma Brown, General Manager, Plant Varieties, and Mr. Zac Hanley, General Manager Science, Plant & Food Research, New Zealand
- 12.45 **Use of new technologies (molecular markers and speed breeding) in the development of drought-tolerant cereal varieties in Morocco**
Mr. Moha Ferrahi, Head, Genetic Resources Improvement and Conservation Department (DACRG), Scientific Division, National Institute for Agricultural Research (INRA), Morocco
- 12.55 **Breeding for the future**
Mr. Stefan van der Heijden, Associate, Innova Connect, Netherlands
- 13.05 **The role of variety characteristics on climate footprint (disease resistance, nitrogen utilization and yield)**
Mr. Morten Lillemo, Professor, Norwegian University of Life Sciences Faculty of Biosciences, Norway
- 13.15 **Questions**
- 13.25 **Research into market-driven and climate smart crop varieties: tolerance to biotic and abiotic stresses**
Mr. Francis Kusi, Acting Director, Savanna Agricultural Research Institute, Council for Scientific and Industrial Research Institute (CSIR-SARI), Principal Research Scientist (Host Plant Resistance), Ghana
- 13.35 **Genetic improvement by mutagenesis of oilseed crops to cope with climate change: case of rapeseed and sesame**
Mr. Abdelghani Nabloussi, Researcher, Meknès Regional Agricultural Research Centre (CRR), National Institute for Agricultural Research (INRA), Morocco
- 13.45 **Connecting different research clusters with the aim to develop more accurate breeding**
Mr. Stig Rune Herbrandsen, Market and Product Manager, Graminor AS, Norway
- 13.55 **Advances in the development of new varieties better adapted to climate change in crops and forages, combining traditional and molecular breeding methodologies: a South American perspective**
Mr. Fernando Ortega Klose, Head, National Area Plant Production, Chilean Agricultural Research Institute, Chile
- 14.05 **Breeding Program to mitigate climate change and environmental pressures on crops**
Mr. Dave Bubeck, Research Director, Corteva, United States of America

14.15 **Questions**

14.25 **Conclusion of the session**

Moderator: Mr. Manuel Toro Ugalde, Vice-Chair, Administrative and Legal Committee, UPOV

Thematic SESSION 5: Role of plant variety protection in the development of new varieties to mitigate and adapt to climate change

15.30 **Introduction**

Moderator: Ms. Kitisri Sukhapinda, Patent Attorney, Office of Policy and Affairs (OPIA), United States Patent and Trademark Office (USPTO), United States of America

15.35 **The role of PBR in plant breeding efforts to address climate change mitigation and adaptation. Example of Canada, including public sector breeding**

Mr. Anthony Parker, Commissioner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), Canada

15.45 **Plant Breeding and Plant Variety Protection: a catalyst for developing climate smart crop varieties in Sub-Saharan Africa**

Mr. Hans Adu-Dapaah, Expert, Crops Research Institute, Council for Scientific and Industrial Research Institute (CSIR), Ghana

15.55 **Plant breeding and PVP system for adapting Japan's unique climate condition and consumers' preferences**

Mr. Teruhisa Miyamoto, Deputy Director of Plant Variety Office, Intellectual Property Division, Export and International Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF)

16.05 **Questions**

16.20 **The role of plant variety protection in promoting development of crop varieties that adapt to, and mitigate, climate change. Example of Kenya**

Mr. Simon Mucheru Maina, Head, Seed Certification and Plant Variety Protection, Kenya Plant Health Inspectorate Service (KEPHIS)

16.30 **Impact of the Community Plant Variety Rights system on the European Union economy and the environment**

Community Plant Variety Office (CPVO) (tbd)

16.40 **Questions**

16.55 **Conclusion of the session**

Moderator: Ms. Kitisri Sukhapinda, Patent Attorney, Office of Policy and Affairs (OPIA), United States Patent and Trademark Office (USPTO), United States of America

17.00 **Concluding remarks**

Mr. Marien Valstar, President of the Council, UPOV

Wednesday, October 26, 2022

- 16.00 **Welcome and opening remarks**
Mr. Marien Valstar, President of the Council, UPOV
- 16.05 **Report of the thematic sessions**
Moderator: Mr. Peter Button, Vice Secretary-General, UPOV
- 16.10 **Report on thematic session 1: Climate change and its impact on agricultural production**
Mr. Marien Valstar, President of the Council, UPOV
- 16.20 **Report on thematic session 2: Strategies to address climate change in agriculture**
Mr. Yehan Cui, Vice-President of the Council, UPOV
- 16.30 **Report on thematic session 3: Plant breeding for climate change adaptation and mitigation in agriculture: crop perspectives**
Mr. Patrick Ngwediagi, Chair of the Administrative and Legal Committee, UPOV
- 16.40 **Report on thematic session 4: Plant breeding for climate change adaptation and mitigation in agriculture: breeding strategies and techniques**
Mr. Manuel Toro Ugalde, Vice-Chair of the Administrative and Legal Committee, UPOV
- 16.50 **Report on thematic session 5: Role of plant variety protection in the development of new varieties to mitigate and adapt to climate change**
Ms. Kitisri Sukhapinda, Patent Attorney, Office of Policy and Affairs (OPIA), United States Patent and Trademark Office (USPTO), United States of America
- 17.00 **Panel Discussion**
Moderator: Mr. Marien Valstar, President of of the Council, UPOV
- *Keynote speaker*
 - *Ms. Arianna Giuliadori, WFO*
 - *Mr. Michael Keller, ISF*
 - *Mr. Edgar Krieger, CIOPORA*
 - *Mr. Yehan Cui, Moderator Session 2*
 - *Mr. Patrick Ngwediagi, Moderator Session 3*
 - *Mr. Manuel Toro Ugalde, Moderator Session 4*
 - *Ms. Kitisri Sukhapinda, Moderator Session 5*
- 17.50 **Concluding remarks**
Mr. Marien Valstar, President of the Council, UPOV

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