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

**Geneva, October 11 and 12, 2022 (virtual meetings) and October 26, 2022 (hybrid meeting)**

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#### REVISED DRAFT PROGRAM

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**Tuesday, October 11, 2022**

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<td>Ms. Yolanda Huerta, Legal Counsel and Director of Training and Assistance, UPOV</td>
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<td><strong>Thematic SESSION 1: Climate change and its impact on agricultural production</strong></td>
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<td><strong>Introduction</strong></td>
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<td><strong>Key note presentation - Impacts and risks for agriculture from climate change: adaptation solutions and the role of new plant varieties</strong></td>
<td>Mr. John Derera, Senior Director, Plant Breeding and Pre-Breeding, Consultative Group on International Agricultural Research (CGIAR)</td>
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<td><strong>World Farmers’ Organization perspective</strong></td>
<td>Ms. Arianna Giuliodori, Secretary-General, WFO</td>
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<td><strong>International Seed Federation perspective</strong></td>
<td>Mr. Michael Keller, Secretary-General, ISF</td>
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<td><strong>International Community of Breeders of Asexually Reproduced Horticultural Plants perspective</strong></td>
<td>Mr. Edgar Krieger, Secretary General, CIOPORA</td>
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<td><strong>Conclusion of the session</strong></td>
<td>Mr. Marien Valstar, President of the Council, UPOV</td>
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The Seminar will take place by electronic means on Tuesday, October 11, 2022, from 13.00 to 16.30 (Geneva time) and Wednesday, October 12, 2022, from 9.00 to 11.30 and from 12.30 to 17.15 (Geneva time); and by hybrid (physical/electronic) means on Wednesday, October 26, 2022, from 16.00 to 18.00 (Geneva time).
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**  
Mr. Herwig Ranner, Team Leader – Climate change and agriculture, Unit for Sustainable Agriculture, Directorate General for Agriculture and Rural Development (DG AGRI), 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 Ortiz Garcia, 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, 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
Using crop genome dynamics for stress adaptation  
Mr. Etienne Bucher, Research group leader “Crop Genome Dynamics”, Agroscope, Switzerland

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. José Ré, Vice President, Global New Products Development – Rice Tech USA, United States of America

Questions

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 (CRRA), National Institute for Agricultural Research (INRA), Morocco

Climate change in the ornamental sector – A breeder’s perspective  
Mr. Robert Boehm, Head of Biotechnology, Selecta One, Germany

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

Questions

Hot climate program: an apple breeding program for hot climate  
(Speaker to be confirmed), Institute of Agrifood Research and Technology (IRTA), Spain

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

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  
Ms. Astrid Schenkeveld, Specialist Plant Breeder’s Rights & Variety Registration, Rijk Zwaan, Netherlands

Questions

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 and **Mr. Joseph Adjebe-Danquah,** Senior Research Scientist, 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 (CRRA), National Institute for Agricultural Research (INRA), Morocco

13.45  **Connecting different research clusters with the aim to develop more accurate breeding**  
**Mr. Muath Alsheikh,** Head of Research and Development, Graminor AS, Norway

13.55  **Advances in the development of new varieties better adapted to climate change in crops and forages: a South American perspective**  
**Mr. Fernando Ortega Klose,** Forage Plant Breeder, Chilean Agricultural Research Institute (INIA), Carillanca regional center, Chile

14.05  **Breeding Program to mitigate climate change and environmental pressures on crops**  
**Mr. Dave Bubeck,** Research Director, Corteva, United States of America
Questions

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


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 plant variety protection for variety adaptation to the Japanese climate

Mr. Yasunori Ebihara, Director of Plant Variety Office, Intellectual Property Division, Export and International Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Japan

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

Mr. Francesco Mattina, President, Community Plant Variety Office (CPVO) and Mr. Nathan Wajsman, Chief Economist of the European Intellectual Property Office (EUIPO)

16.40 Questions

16.55 Conclusion of the session


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

17.00 Panel Discussion
Moderator: Mr. Marien Valstar, President of the Council, UPOV

- Mr. John Derera, Keynote speaker
- (speaker to be confirmed), 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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