

Workshop on the Sustainable Management of Plant Genetic Resources (PGR)

3-4 October 2023

Mediterranean Agronomic Institute of Chania, Chania, Greece and online

AGENDA

Tuesday 3 October, 9.30 EET (8.30 CET)

9.30-9.40 Welcome from MAICH Director

9.40-10.00 Introduction. G Giuliano (ENEA, Rome): *The GRACE-RI: A European Research Infrastructure Dedicated to Plant Genetic Resources*

SESSION 1

10.00-11.00 Presentations of existing European Research Infrastructures: LIFEWATCH, EMPHASIS, DISSCO, ELIXIR, METROFOOD. (Chair: G Bucci, CNR)

11.00-11.20 Round table: *Synergies/complementarities between the future GRACE-RI and other European Research Infrastructures* (Chair: G Bucci, CNR)

SESSION 2

11.40-13.10 Presentations of EU-funded projects dedicated to PGR: G2P-SOL, FARMER'S PRIDE, TRADITOM, HARNESSTOM, INCREASE, AGENT, BREEDINGVALUE, GEN4OLIVE, FORGENIUS, COUSIN. (Chair: G. Giuliano, ENEA)

THEMATIC SESSION 1

15.30-16.50 *Plant Genetic Resources Information systems: making data FAIR and useful* (Chair: S Weise, IPK Gatersleben)

- CH Aguilar (IPK Gatersleben): *The European PGR Information System and the Fair Imperative: Progress and prospects*
- C Pons-Puig (CSIC-IBMCP, Valencia): *Towards a harmonized system of standards for PGR phenotypic, image, and genetic (meta)data*
- J Magos Brehm (Univ of Birmingham): *In situ PGR conservation data standards*
- Discussion

THEMATIC SESSION 2

17.10-18.30 *Ex situ and in situ PGR management: ensure quality and efficiency* (Chair: J Magos Brehm, Univ. of Birmingham)

- T van Hintum (CGN Wageningen): *A certification system for ex situ genebanks*
- MJ Díez (Polytechnic Univ of Valencia, online): *Experiences with peer reviews in European genebanks*
- N Maxted (Univ of Birmingham): *Quality improvement in in situ management of PGR*
- V Holubec (Crop Research Institute, Prague): *Building capacity to assure quality in PGR management*
- Discussion

Wednesday 4 October, 9.30 EET (8.30 CET)

THEMATIC SESSION 3

9.30-10.30 Thematic session 3: *PGR access and benefit sharing, IP protection, training* (Chair: N Vangheluwe, Euroseeds)

- P Kalaitzis (MAICH, Chania): *Training opportunities in the GRACE-RI*
- S Csörgő, N Vangheluwe (Euroseeds): *IP considerations*
- L Escajedo San-Epifanio (Univ. of Basque Country): *Access and benefit sharing in agricultural research and development*
- *Discussion*

THEMATIC SESSION 4

10.30-11.30 Thematic session 4: *Technologies and scientific services for the management of PGR* (Chair: L Barchi, Univ. of Torino)

- A Fernie (Max Planck Institute Golm): *Metabolomic and phytosanitary technologies and scientific services*
- L Barchi (Univ of Torino): *Genomic and bioinformatic technologies and scientific services*
- *Discussion*

THEMATIC SESSION 5

11.50-13.10 Thematic session 5: *Stakeholders, services, sustainability – Visions for the future GRACE-RI*

Interactive workshop moderated by L L Steffensen (NordGen) and S Goritschnig (ECPGR).

There will be two main sessions to discuss ideas and collect feedback on aspects important to making GRACE-RI a reality:

- *GRACE-RI services for the PGR community and stakeholders*
- *Visions for the structure, finance and governance of a future GRACE-RI*

THEMATIC SESSION 6

14.10-15.10 Thematic session 6: *Evaluation and valorization of PGR: facilitating their adoption in breeding programmes* (Chair: J Prohens, UPV Valencia)

- I Verde (CREA)/V Lefebvre (INRAE Avignon): *Introduction*
- R Pieruschka (Forschungszentrum Jülich) and C Pommier (INRAE Saclay): *Plant phenotyping data management from phenomics to integration for analysis and PGR characterizations: challenges and solutions from ELIXIR and EMPHASIS*
- *Discussion*

15.10-15.15 Workshop conclusions (G Giuliano, ENEA)

Entry-level training school on plant genetic resources (PGR)

5-6 October 2023

Mediterranean Agronomic Institute of Chania, Chania, Greece and online

AGENDA

Thursday 5 October, 9.30 EET (8.30 CET)

9.30-11.15 Introduction to PGR (Chair: L Maggioni, ECPGR)

- L Maggioni (ECPGR): *The European Cooperative Programme on Plant Genetic Resources*
- L Escajedo San-Epifanio (Univ of Basque Country): *Access and benefit sharing*

11.15-13.30

Tools for PGR management (Chair: R Schafleitner, The World Vegetable Center)

- L Barchi (Univ of Torino): *Genomic tools for the management and characterization of PGRs*
- R Schafleitner (The World Vegetable Center): *Phytopathological tools and techniques*

14.30-18.00 *Ex situ* and *in situ* management of PGR (Chair: N Maxted, Univ of Birmingham)

- T van Hintum (CGN, Wageningen): *Plant genetic resources – an introduction*
- T van Hintum (CGN, Wageningen): *Ex situ management of PGR*
- N Maxted, J Brehm (Univ of Birmingham), V Holubec (Crop Research Institute, Prague): *In situ management of PGR*
- M Castellanos (Univ of Nottingham): *The Nottingham Arabidopsis stock centre*

Friday 6 October, 9.30 EET (8.30 CET)

9.30-11.15 PGR in breeding (Chair: J Prohens, Polytechnic Univ of Valencia)

- J Prohens (Polytechnic Univ of Valencia): *Breeding and pre-breeding*
- A van den Hurk (Plantum, online): *Pre-competitive research on genebank material for commercial use*

11.45-13.30 Evaluation and characterization (Chair: S. Goritschnig, ECPGR)

- MJ Díez (Polytechnic Univ of Valencia, online): *Tools and methods for the evaluation of PGR*
- S. Goritschnig (ECPGR): *EVA networks – public-private partnerships to evaluate genebank material for breeding*