UPOV
International Union for the Protection of New Varieties of Plants

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Technical Working Party on Testing Methods and Techniques **TWM/3/1 Rev.2**

Third Session
Beijing, China, April 28 to May 1, 2025

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REVISED DRAFT AGENDA

prepared by the Office of the Union

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1. Opening of the Session
2. Adoption of the agenda (document TWM/3/1 Rev.2)
3. Matters for discussion
   - 3.1 Software and statistical analysis methods for DUS examination
     - (i) Development of big data platform for DUS examination (document TWM/3/19)
     - (ii) Grading criteria of Anthurium DUS quantitative characteristics by multiple comparison (document TWM/3/12)
     - (iii) COYU development update 2025 (document TWM/3/5)
   - 3.2 Phenotyping and image analysis
     - (i) A new perspective on the DUS test of eggplant fruit color based on lab color parameters (document TWM/3/13)
     - (ii) Length data collection device pro (document TWM/3/14)
   - 3.3 Developments in molecular techniques and bioinformatics
     - (a) Latest developments in molecular techniques and bioinformatics
       - Data science activities at Naktuinbouw towards genotyping and phenotyping: an update (document TWM/3/16)
     - (b) Cooperation between international organizations (Joint OECD, ISTA and UPOV workshop on molecular techniques)
       - (i) Developments at ISTA (documents TWM/3/25)
       - (ii) Developments at OECD (documents TWM/3/26)
     - (c) Report of work on molecular techniques in relation to DUS examination
       - (i) Guidelines for the validation of a new characteristic-specific molecular marker protocol as an alternative method for observation (document TWP/9/4)
       - (ii) Latest developments in characteristic-specific molecular markers at Naktuinbouw: a call for knowledge exchange (document TWM/3/7)
       - (iii) The use of biomolecular technology in DUS testing - a case study on barley (document TWM/3/20)
       - (iv) Artificial Intelligence and molecular markers in soft fruit: a proof of concept (document TWM/3/24)

(v) Can better understanding of the genetic architecture of wheat DUS characteristics help streamline the DUS processes? (document TWM/3/22)

(vi) Genomic prediction for wheat variety collection management (document TWM/3/6)

(vii) COYD-GP enhanced distinctness criterion for cross-pollinated agricultural crops (document TWM/3/4)

(viii) Community Plant Variety Office (CPVO) R&D activities (document TWM/3/15)

(d) Methods for analysis of molecular data, management of databases and exchange of data and material

(i) Exploiting crop haplotype-tag polymorphisms marker for pedigree identification (document TWM/3/10)

(ii) PAD – an algorithm for progeny-ancestor detection based on genetic profiles (document TWM/3/17)

(iii) DurdusTools: Current state and use in DUS-testing (document TWM/3/21)

(iv) Development of DUS phenotyping tools for and with examination offices: experience gained (document TWM/3/27)

(v) Phenotyping concept for strengthening the plant variety protection chain via combined use of IA&AI (document TWM/3/28)

(vi) Use of DNA databases at Naktuinbouw to improve DUS work (document TWM/3/8)

(vii) Shared molecular database (document TWM/3/23)

(e) Confidentiality, ownership and access to molecular data, including model agreement template

- Confidentiality of molecular information (document TWP/9/6)

(f) The use of molecular techniques in examining essential derivation

(i) Exploration of identification techniques based on SNP markers for essentially derived varieties of wheat (document TWM/3/11)

(ii) Essentially derived varieties (EDV) threshold development in soybeans (document TWM/3/9)

(g) The use of molecular techniques for enforcement

(i) Use of DNA techniques for plant variety right (PBR) enforcement in Peru (document TWM/3/3)

(ii) Use of Molecular Markers as a tool to enforce Plant Breeders' Rights (PBR) in Soybean in Uruguay (document TWM/3/18)

4. Matters for information

(a) Reports on developments in UPOV

(b) Reports from members and observers (document TWM/3/2)

(c) Procedures for DUS examination (document TWP/9/1)

(d) UPOV Information databases (document TWP/9/2)

(e) Test Guidelines: support for drafters; additional characteristics; and methods of propagating the variety (document TWP/9/3)

(f) Proposal for a revision of document TGP/7 “Development of Test Guidelines”, GN 28 “Example Varieties” (document TWP/9/5)

5. Date and place of the next session

6. Future program

7. Adoption of the report on the session (if time permits)

8. Closing of the session

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