

Technical Committee TC/56/23.

Fifty-Sixth Session Geneva, October 26 and 27, 2020 Original: English

Date: October 27, 2020

E

REPORT

adopted by the Technical Committee

Disclaimer: this document does not represent UPOV policies or guidance

- 1. The Technical Committee (TC) held its fifty-sixth session via electronic means on October 26 and 27, 2020. The list of participants is reproduced in Annex I to this report.
- 2. The session was opened by Mr. Nik Hulse (Australia), Chairperson of the TC, who welcomed the participants and the new Secretary-General of UPOV, Mr. Daren Tang.
- 3. Mr. Daren Tang, Secretary-General of UPOV, welcomed participants to the first virtual meeting of the Technical Committee and thanked participants for their cooperation and support in the approach taken for the UPOV sessions in 2020, namely virtual meetings, combined with consideration of documents by correspondence. Mr. Tang recalled that the work of the Technical Committee was a corner-stone of the UPOV system. The guidance provided on the examination of Distinctness, Uniformity and Stability ("DUS") was the basis for harmonization. This harmonization was the basis for cooperation between members of the Union, which was an important benefit of the UPOV system. The Secretary-General highlighted that a key point of discussion during the Technical Committee would be measures to enhance cooperation in examination. As UPOV continues to grow, cooperation becomes increasingly important; particularly for new UPOV members and for plant breeders. He recalled that the UPOV system was created to encourage plant breeding, so the system should be efficient for plant breeders to use. Mr. Tang congratulated the six Technical Working Parties (TWPs) on successfully conducting their work programs by virtual meetings in 2020 and expressed appreciation for the discussions on how to build on the positives of the TWP virtual meetings, for instance the increased participation and inter-sessional work, while retaining and enhancing the benefits of physical meetings when they can resume.

Adoption of the agenda

4. The TC noted that no documents had been received for item 15 "Discussion session: Minimum distances between varieties," and agreed to delete item 15 from the agenda. Subject to that amendment, the TC adopted the agenda as presented in document TC/56/1 Rev..

Outcome of the consideration of documents by correspondence

- 5. The TC considered document TC/56/22.
- 6. The TC noted the information on outcome of the procedure for consideration of documents by correspondence, as reported in document TC/56/22.

Report by the Vice Secretary-General on developments in UPOV

7. The TC noted that a pre-recorded video presentation in English, with subtitles in English, French, German and Spanish, was available at the TC/56 webpage. A copy of the presentation was provided in document TC/56/INF/8.

8. The TC also noted that, since the posting of the video presentation, Mr. Amit Sharma had been appointed as IT Support Officer on a temporary appointment, starting on November 1, 2020.

<u>Progress report on the work of the Technical Working Parties and the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT)</u>

- 9. The TC noted that the Technical Working Party for Agricultural Crops (TWA), Technical Working Party on Automation and Computer Programs (TWC), Technical Working Party for Ornamental Plants and Forest Trees (TWO), Technical Working Party for Vegetables (TWV) and the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT) had held their sessions in 2020 via electronic means.
- 10. The TC received oral reports from the Chairpersons on the work of the TWA, TWC, TWF, TWO, TWV and BMT. A copy of the reports of the Chairpersons is provided in Annex II to this report.
- 11. The TC approved the program of work for the TWPs and BMT sessions in 2021, as presented in the respective meeting reports and reports by the Chairpersons. The TC agreed that the programs of work should be proposed for approval by the Council, at its session to be held on October 30, 2020.

Matters arising from the Technical Working Parties

- 12. The TC considered document TC/56/3 and noted developments in the TWPs concerning:
 - (i) New issues arising for DUS examination;
 - (ii) Use of disease resistance characteristics:
 - (iii) Possible developments to enable UPOV Codes to provide useful information on variety groups or types for DUS testing purposes (Plavarlis project UPOV codes);
 - (iv) Minimum distances between vegetatively propagated ornamental varieties;
 - (v) Access to plant material for the purpose of management of variety collections and DUS examination;
 - (vi) DUS examination of mutant varieties of apple;
 - (vii) Relevant matters for DUS examination in the fruit sector;
 - (viii) Guidance for drafters of Test Guidelines;
 - (ix) Experiences with new types and species;
 - (x) Statistical analysis software "DUS Excel";
 - (xi) Tools and methods for DUS examination;
 - (xii) Phenotyping and image analysis.

Recommendations concerning the election of new chairpersons of the Technical Working Parties

- 13. The TC noted that document TC/56/15 had been considered by correspondence. The TC noted that decisions on document TC/56/15 had been taken by the TC by correspondence, as provided in document TC/56/22, paragraphs 19 and 20.
- 14. The TC noted the report from the Office of the Union that the Council, in the procedure by correspondence, had elected, on October 25, 2020, the next Chairpersons of the TWPs and the BMT for a term of three years ending with the fifty-seventh ordinary session of the Council, in 2023, as follows (see document C/54/17 "Outcome of consideration of documents by correspondence", paragraphs 40 and 41):
 - (a) Ms. Renée Cloutier (Canada) as Chairperson of the Technical Working Party for Agricultural Crops (TWA);
 - (b) Mr. Christopher Barnaby (New Zealand) as Chairperson of the Technical Working Party for Fruit Crops (TWF):
 - (c) Ms. Ashley Balchin (Canada) as Chairperson of the Technical Working Party for Ornamental Plants and Forest Trees (TWO);
 - (d) Ms. Marian van Leeuwen (Netherlands) as Chairperson of the Technical Working Party for Vegetables (TWV); and
 - (e) Ms. Beate Rücker (Germany) as Chairperson of the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT).

Development of guidance and information materials

- 8.1 Matters for adoption by the Council in 2020
- 15. The TC noted that document TC/56/4 Rev. had been considered by correspondence.

TGP Documents

- 16. The TC noted that decisions on document TC/56/4 Rev. had been taken and the following documents had been approved by the TC by correspondence as provided in document TC/56/22, paragraphs 19 to 61 and 67 to 71:
 - (a) Document TGP/5: Experience and Cooperation in DUS Testing; Section 6: UPOV Report on Technical Examination and UPOV Variety Description (Revision) (document TGP/5: Section 6/3 Draft 1)
 - (b) Document TGP/7: Development of Test Guidelines (Revision) (document TGP/7/8 Draft 1)
 - (c) Document TGP/14: Glossary of Terms Used in UPOV Documents (Revision) (document TGP/14/5 Draft 1)
 - (d) Document TGP/15: Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS) (Revision) (document TGP/15/3 Draft 1)
 - (e) Document TGP/0: List of TGP documents and latest issue dates (Revision) (document TGP/0/12 Draft 1)

Information Materials

- (f) Document UPOV/INF/16: Exchangeable Software (Revision) (document UPOV/INF/16/9 Draft 2)
- (g) Document UPOV/INF/22: Software and Equipment Used by Members of the Union (Revision) (document UPOV/INF/22/7 Draft 1)
- 17. The TC noted the report from the Office of the Union that the TGP documents and information materials above had been adopted by the Council on October 25, 2020, in the procedure by correspondence (see document C/54/17 "Outcome of consideration of documents by correspondence", paragraphs 16 to 24).
- 8.2 Possible future revisions of guidance and information materials
- 18. The TC considered document TC/56/14

<u>Document TGP/8: Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability (Revision)</u>

- (i) Data Processing for the Production of Variety Descriptions for Measured Quantitative Characteristics
- 19. The TC considered document TC/56/5.
- 20. The TC considered the different approaches to convert observations into notes for producing variety descriptions for measured quantitative characteristics, as presented in document TC/56/5, Annexes III to VII, in conjunction with the additional information provided by Italy and Japan, as presented in document TC/56/5, paragraph 12.
- 21. The TC agreed that guidance on converting observation into notes would be beneficial for new members of the Union and international harmonization. The TC agreed that further information would be required to explain the complex circumstances influencing the choice of method to be used to convert observations into notes.

- 22. The TC agreed to invite the TC Chairperson in conjunction with the Office of the Union to develop proposals on next steps for developing guidance, to be presented to the TWPs and the TC at their sessions in 2021.
 - (ii) The Combined-Over-Years Uniformity Criterion (COYU)
- 23. The TC considered document TC/56/6.
- 24. The TC noted the draft presented in the Annexes to document TC/56/6 for the revision of document TGP/8, Section 9 "The Combined-Over-Years Uniformity Criterion (COYU)."
- 25. The TC agreed to request the Technical Working Parties, at their sessions in 2021, to consider the proposed revision of document TGP/8, Section 9 "The Combined-Over-Years Uniformity Criterion (COYU)", on the basis of the draft presented in the Annexes to document TC/56/6.
- 26. The TC noted that evaluation versions of software for COYU Splines in both "R" and "DUSTNT" software were planned to be released in November 2020.
- 27. The TC noted the expression of interest by experts from China, Finland, France and the United Kingdom to review the COYU Splines software.
- 28. The TC agreed with the TWC proposal to invite members to participate in a test campaign of the COYU Splines software until April 2021.
- 29. The TC agreed to request the TWC to prepare a report of the results of the test campaign of the COYU Splines software for consideration in conjunction with the revision of document TGP/8 by the TC at its fifty-seventh session.

Revision of document UPOV/INF/12 "Explanatory Notes on Variety Denominations under the UPOV Convention" (document UPOV/EXN/DEN)

- 30. The TC noted that it had considered document TC/56/4 Rev. by correspondence.
- 31. The TC noted that the TC had endorsed the request by the TWV, at its fifty-fourth session, not to introduce Class 205B in document UPOV/EXN/DEN/1, are set out in document TC/56/4 Rev..
- 32. The TC noted that draft document UPOV/EXN/DEN/1 would be considered by the CAJ, at its session to be held on October 28, 2020.
- 33. The TC noted that matters concerning a possible future revision of document UPOV/INF/12 were reported in document TC/56/INF/7 "Variety denominations."
- 34. The TC noted the report from the Office of the Union that the CAJ had received comments in reply to Circular E-20/120 of August 21, 2020, on document UPOV/EXN/DEN/1 Draft 4 that were not of a straightforward nature and, therefore, document UPOV/EXN/DEN/1 Draft 4 was not included in Circular E-20/160 of September 25, 2020, for approval by correspondence and would be presented for consideration by the CAJ at its virtual session on October 28, 2020, in conjunction with the comments received (see document CAJ/77/9 "Outcome of consideration of documents by correspondence", paragraph 34).

Review of document UPOV/INF/17 "Guidelines for DNA-Profiling: Molecular Marker Selection and Database Construction ('BMT Guidelines')"

- 35. The TC considered document TC/56/13 and the proposed revision of document UPOV/INF/17 on the basis of document UPOV/INF/17/2 Draft 4.
- 36. The TC agreed to request the TWPs to consider a draft revision of document UPOV/INF/17/1 (document UPOV/INF/17/2 Draft 5) at their sessions in 2021.
- 37. The TC noted that a draft revision of document UPOV/INF/17 (UPOV/INF/17/2 Draft 6) would be proposed for adoption by the Council, at its fifty-fifth session, to be held on October 29, 2021, subject to agreement by the TC at its fifty seventh session and the CAJ, at its seventy eighth session, to be held in 2021.

Development of document UPOV/INF/23 "UPOV Code System"

38. The TC noted the report from the Office of the Union that the CAJ, on October 25, 2020, in the procedure by correspondence, had approved the "Guide to the UPOV Code System", on the basis of document UPOV/INF/23/1 Draft 1, and proposed that the TC consider a new draft of document UPOV/INF/23/1 "Guide to the UPOV Code System" in 2021 (see document CAJ/77/9 "Outcome of consideration of documents by correspondence", paragraphs 26 and 27).

New proposals for revisions of guidance and relevant information materials

<u>Document TGP/5: Experience and Cooperation in DUS Testing; Section 6: UPOV Report on Technical Examination and UPOV Variety Description</u>

39. The TC agreed to request the TWPs, at their sessions in 2021, to consider the following proposal to amend document TGP/5 Section 6 to read as follows (see document TC/56/14, paragraph 26):

Chapter: UPOV Report on Technical Examination

- Item 13 to read "Testing station site(s) and place(s)"
- New item: Date and document number of UPOV Test Guidelines
- New item: Date and/or document number of Reporting Authority's test guidelines

Chapter: UPOV Variety Description

Item 11 to read "Testing station site(s) and place(s)"

Document TGP/7: Development of Test Guidelines

Links to relevant TGP documents guidance in Test Guidelines

40. The TC considered the proposal to indicate relevant guidance in TGP documents that could have links displayed in Test Guidelines, as set out in document TC/56/14, paragraphs 28 to 33. The TC noted that no additional guidance from TGP documents had been proposed by the TWPs, at their sessions in 2020, and agreed that no changes would be required to the standard wording in Test Guidelines.

Procedure for partial revision of UPOV Test Guidelines

41. The TC noted that the TWF, at its fifty-first session, had agreed that existing possibilities to propose partial revision of Test Guidelines during TWF and TC meetings should be used by members, as appropriate.

Program for the development of relevant information materials

- 42. The TC agreed the program for the development of TGP documents, as set out in document TC/56/14, Annex I.
- 43. The TC agreed the program for the development of relevant information materials, as set out in document TC/56/14, Annex II.
- 44. The TC noted that the program for the development of TGP documents and information materials would be considered by the CAJ, at its seventy-seventh session, to be held in Geneva on October 28, 2020, in conjunction with the conclusions of the TC at its fifty-sixth session.

Molecular techniques

45. The TC considered document TC/56/7.

Cooperation between international organizations

Inventory on the use of molecular marker techniques, by crop

46. The TC noted that on October 16, 2020, the Office of the Union had issued Circular E-20/189 inviting members to complete the survey on the use of molecular marker techniques, per crop, by December 15, 2020.

47. The TC noted that the results of the survey would be presented to the Technical Committee, at its fifty-seventh session, to be held in 2021.

Lists of possible joint initiatives with OECD and ISTA in relation to molecular techniques

- 48. The TC agreed that another joint OECD, UPOV, ISTA workshop on molecular techniques should be organized in the near future.
- 49. The TC recalled that, at its fifty-fifth session¹, it had noted that there were no definitions on biochemical and molecular techniques in UPOV and had agreed that information from the survey on the techniques could help to clarify techniques that were considered to be biochemical or molecular. The TC agreed that joint OECD, UPOV, ISTA workshop on molecular techniques would be an opportunity to discuss the definitions used in molecular techniques with a view to their harmonization.

Joint document explaining the principal features of the systems of OECD, UPOV and ISTA

- 50. The TC noted that developments on a joint document explaining the principal features of the systems of OECD, UPOV and ISTA were reported to the TC at its fifty-sixth session, with the aim of proposing a draft joint document explaining the principal features of the systems of OECD, UPOV and ISTA for consideration by the TC at its fifty-seventh session.
- 51. The TC noted that the joint document would provide information on the status of molecular techniques for the purposes of each organization. The TC recalled that UPOV provided guidance for harmonized use of molecular techniques in documents UPOV/INF/17, TGP/15 and Test Guidelines.

Session to facilitate cooperation in relation to the use of molecular techniques

- 52. The TC noted the information provided by participants at the nineteenth session of the BMT on their work on biochemical and molecular techniques and areas for cooperation, as reproduced in the Annex to document TC/56/7.
- 53. The TC agreed to invite the TWPs and BMT to form discussion groups to allow participants to exchange information on their work on biochemical and molecular techniques and explore areas for cooperation.
- 54. The TC noted that the BMT had discussed "confidentiality, ownership and access to molecular data" at its nineteenth session.

Possible merger of BMT and TWC

- 55. The TC noted that document TC/56/10 Rev. had been considered by correspondence. The TC noted that decisions on document TC/56/10 Rev. had been taken by the TC by correspondence as provided in document TC/56/22, paragraphs 34 to 37.
- 56. The TC noted the report from the Office of the Union that the Council, on October 25, 2020, following the procedure by correspondence, had established the TWM to take effect from 2022 and elected the Chairperson of the BMT to act as Chairperson of the TWM ending with the fifty-seventh ordinary session of the Council, in 2023 (see document C/54/17 "Outcome of consideration of documents by correspondence", paragraphs 32 to 35).

Cooperation in examination

57. The TC noted that it had considered document TC/56/11 by correspondence. The TC noted that decisions on document TC/56/11 had been taken by the TC by correspondence as provided in document TC/56/22, paragraphs 39 to 44.

Proposals for next steps

58. The TC considered document TC/56/22 "Outcome of consideration of documents by correspondence".

_

¹ held in Geneva, on October 28 and 29, 2019

- 59. The TC noted the comments received during the procedure of consideration of documents by correspondence on document TC/56/11 "Cooperation in examination", as reported in document TC/56/22, paragraphs 45 to 48.
- 60. The TC noted the comment provided by the European Union in response to Circular E-20/119, of August 21, 2020, on the proposal to develop a package of compatible IT tools with the elements indicated in document TC/56/11, paragraph 19. The TC agreed to request the Office of the Union to present plans for the development of a package of compatible IT tools, for consideration by the TWPs and TC, at their sessions in 2021.
- 61. The TC noted the comment provided by Japan in response to Circular E-20/119, of August 21, 2020, on difficulties to submit plant material to the authority receiving an application due to phytosanitary, quarantine or other related matters, as reported in document TC/56/22, paragraphs 47 and 48.
- 62. The TC noted that plant material was required as a condition for granting breeders' rights in some members of the Union.
- 63. The TC agreed to propose to the CAJ the development of guidance to encourage UPOV members, on a voluntary basis, to take-over DUS test reports when the applicants could not submit plant material due to phytosanitary or other related issues where acceptable to the UPOV members concerned. The TC agreed that this proposal should be presented for consideration by the CAJ in document CAJ/77/2 "Report on developments in the Technical Committee."

Increasing participation of new members of the Union in work of the TC and the TWPs

- 64. The TC considered document TC/56/12.
- 65. The TC noted the outcome of organizing the 2020 sessions of the TWPs via electronic means, including the information provided by the Office of the Union on the TWC and BMT meetings held in September 2020.
- 66. The TC agreed that virtual meetings had shortcomings in relation to physical meetings, such as the difficulty to engage active participation and lack of possibility to have bilateral meetings.
- 67. The TC noted the increased number of participants at virtual meetings and agreed to explore integrating the benefits of this type of meetings into physical meetings.
- 68. The TC noted the following additional information that had not been included in document TC/56/12:

Table: Total number of participants (members of the Union + observers) in TWPs (2015-2020)

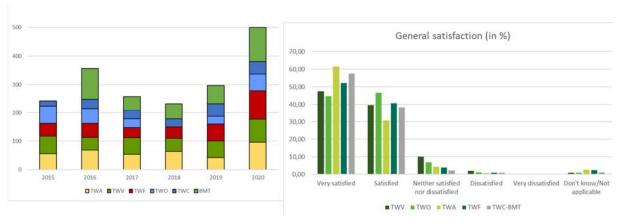
| | TWV | TWO | TWA | TWF | TWC | BMT |
|-------------------|------|----------------|------|-------|------|----------------|
| 2015 | 62 | 63 | 56 | 44 | 18 | no BMT in 2015 |
| 2016 | 45 | 53 | 68 | 49 | 34 | 107 |
| 2017 | 58 | 30 | 54 | 36 | 31 | 49 |
| 2018 | 46 | no TWO in 2018 | 64 | 40 | 28 | 55 |
| 2019 | 58 | 28 | 42 | 60 | 44 | 65 |
| Average 2015-2019 | 54 | 44 | 57 | 46 | 31 | 69 |
| 2020 | 81 | 59 | 96 | 101 | 44 | 119 |
| Change (%) | +50% | +34% | +68% | +120% | +41% | +72% |

Table: Number of UPOV members participating in TWPs (2015-2020)

| | TWV | TWO | TWA | TWF | TWC | BMT |
|-----------------------|------|----------------|------|------|------|----------------|
| 2015 | 20 | 16 | 17 | 16 | 7 | no BMT in 2015 |
| 2016 | 15 | 14 | 19 | 23 | 5 | 12 |
| 2017 | 18 | 14 | 28 | 19 | 9 | 19 |
| 2018 | 15 | no TWO in 2018 | 23 | 18 | 15 | 18 |
| 2019 | 15 | 12 | 20 | 19 | 16 | 18 |
| Average 2015- 2019 | 17 | 14 | 21 | 19 | 10 | 16 |
| 2020 | 27 | 20 | 28 | 26 | 19 | 26 |
| Change (%) | +59% | +43% | +33% | +37% | +90% | +62% |

Number of TWP participants 2015-2020

General satisfaction of TWP participants in virtual meetings (2020)



- 69. The TC agreed to invite the TWPs to consider the following possible measures for physical and virtual participation at TWP meetings (see document TC/56/12, paragraph 21):
 - To organize Test Guidelines subgroup discussions by electronic means prior to the TWPs instead of during the TWPs. The conclusions from the subgroups would be reported to the TWP session in the same way as the current procedure.
 - To organize virtual preparatory workshops prior to the TWPs. Those preparatory workshops to be recorded and be made available on the UPOV website.
 - To offer the possibility to provide comments and questions on documents in advance of the meeting.
 - To organize electronic participation during the TWPs, using one of the following options, according to host facilities:
 - The host to provide the platform for virtual participants (with integrated audio/video on site), in addition to onsite participation in the meeting.
 - o The UPOV Office to provide the platform for virtual participants. All participants (present on site or remotely) would be invited to join to the platform using their personal equipment.
 - To have virtual meeting sessions for part of the day (e.g. 2 sessions of 2 hours per day) with sessions for onsite participants for the following:
 - visits to DUS trials or related facilities;
 - o pre-organized bilateral discussions/ meetings on cooperation;
 - o sessions to facilitate discussion or exchange of knowledge for DUS examination.

UPOV information databases

70. The TC considered document TC/56/8 by correspondence. The TC noted that decisions on document TC/56/8 had been taken by the TC by correspondence as provided in document TC/56/22, paragraphs 50 to 53.

Preparatory workshops

- 71. The TC considered document TC/56/9.
- 72. The TC agreed to organize preparatory workshops as a series of webinars at suitable dates according to the schedule of TWP sessions, as follows:

Webinar 1:

- (a) Introduction to UPOV and the role of UPOV Technical Working Parties (TWPs)
- (b) Overview of the General Introduction (document TG/1/3 and TGP documents)
 - Characteristics as the Basis for DUS Examination and Selection of Characteristics.

Webinar 2:

Guidance on drafting Test Guidelines – part I (document TGP/7)

- (a) Method of Observation (MS, MG, VS, VG);
- (b) Types of Expression (QL, PQ, QN), notes and distinctness;

Webinar 3:

Guidance on drafting Test Guidelines – part II (document TGP/7)

- (a) Subject of the Test Guidelines, Material Required and Method of Examination;
- (b) Shape and Color Characteristics;
- (c) Example Varieties;

Webinar 4:

The process for developing UPOV Test Guidelines:

- (a) Web-based TG Template; Additional Standard Wording; and Guidance Notes;
- (b) Role of the leading expert drafting Test Guidelines and how to participate as an interested expert Webinar 5:

UPOV online resources

- (a) UPOV member laws: UPOV Lex
- (b) PBR Applications: UPOV PRISMA PBR Application Tool
- (c) DUS Examination: GENIE database, UPOV Code
- (d) Variety denomination/novelty: PLUTO database

Webinar 6:

- (a) Situation in UPOV Concerning the Possible Use of Molecular Techniques in DUS Examination
- (b) The Concept of Essentially Derived Varieties
- (c) The Role of UPOV in Variety Identification
- 73. The TC noted that the webinar presentations would be recorded and made available online, but not the discussions. The TC noted that the Office of the Union would provide content for the webinars and invite experts from members to act as panelists for discussions and to provide practical examples.
- 74. The TC noted that detailed arrangements concerning the webinars would be finalized by the Office of the Union in coordination with the chairpersons of the TC and TWPs.
- 75. The TC noted that, subject to a request by the hosts of the TWPs, workshops with physical participation could be organized in conjunction with the TWP sessions. In such cases, the content would be adapted to the particular context.

Test Guidelines

- 76. The TC considered document TC/56/2 by correspondence. The TC noted that decisions on document TC/56/2 had been taken by the TC by correspondence as provided in document TC/56/22 "Outcome of consideration of documents by correspondence", paragraphs 55 to 61, on the following matters:
 - (a) Test Guidelines adopted by correspondence in 2020 (see Annex III to this document)
 - (b) Test Guidelines for adoption (see Annex III to this document)
 - (c) Corrections to Test Guidelines
 - (d) Draft Test Guidelines discussed by the TWPs in 2020
 - (e) Draft Test Guidelines to be discussed by the TWPs in 2021
 - (f) Additional characteristics

- (g) Status of existing Test Guidelines or draft Test Guidelines
- (h) Superseded test guidelines

Partial revision of Test Guidelines

- 77. The TC considered document TC/56/22 "Outcome of consideration of documents by correspondence", paragraphs 61 to 65.
- 78. The TC noted that the Office of the Union had identified Test Guidelines where a partial revision could be anticipated to produce significant benefits for harmonization between members, as presented in the table below. The TC noted that the following criteria had been used to generate the Test Guidelines: large number of PBR applications in several members of the Union; a number of members of the Union have indicated that their technical questionnaires had differences from the UPOV Technical Questionnaire; and relevant crops for UPOV PRISMA.

| TG reference | Test Guidelines Common Name | Français | Deutsch | Español | Botanical Name | UPOV codes | TWPs |
|-----------------------|--|---|--|---|---|--|-------------|
| TG/2/7 | Maize | Maïs | Mais | Chícharo, Maíz | Zea mays L. | ZEAAA_MAY | TWA/ TWV |
| TG/3/12 | Wheat | Blé | Weizen | Trigo | Triticum aestivum L. | TRITI_AES | TWA |
| TG/11/8 Rev. | Rose | Rosier | Rose | Rosal | Rosa L. | ROSAA | TWO |
| TG/13/11 | Lettuce | Laitue | Salat | Lechuga | Lactuca sativa L. | LACTU_SAT | TWV |
| TG/14/9 | Apple (fruit varieties) | Pommier (variétés fruitières) | Apfel (Fruchtsorten) | Manzano (variedades frutales) | Malus domestica Borkh. | MALUS_DOM | TWF |
| TG/22/10 Rev. | Strawberry | Fraisier | Erdbeere | Fresa, Frutilla | Fragaria L. | FRAGA | TWF |
| TG/37/10 | Turnip | Navet | Herbst-, Mairübe | Nabo | Brassica rapa L. var. rapa (L.) | BRASS_RAP_R AP | TWV |
| TG/44/11 Rev.2 | Tomato | Tomate | Tomate | Tomate | Solanum lycopersicum (L.) Karst. ex. Farw. | SOLAN_LYC | TWV |
| TG/46/7 | Onion, Echalion; Shallot; Grey shallot | Oignon, Échalion; Échalote; Échalote grise | Zwiebel, Echalion; Schalotte; Graue schalotte | Cebolla, Echalion; Chalota; Chalota gris | Allium cepa (Cepa Group), Allium cepa (Aggregatum Group) and Allium oschaninii O. Fedtsch. and hybrids between them | ALLIU_CEP_CE P, ALLIU_CEP_AG G, ALLIU_OSC | TWV |
| TG/49/8 Corr. | Carrot | Carotte | Möhre | Zanahoria | Daucus carota L. | DAUCU_CAR | TWV |
| TG/50/9 | Grapevine | Vigne | Rebe | Vid | Vitis L. | VITIS | TWF |
| TG/53/7 Rev. | Peach | Pêcher | Pfirsich | Durazno, Melocotonero | Prunus persica (L.) Batsch | PRUNU_PER | TWF |
| TG/55/7 Rev. 5 | Spinach | Épinard | Spinat | Espinaca | Spinacia oleracea L. | SPINA_OLE | TWV |
| TG/61/7 Rev. 2 | Cucumber, Gherkin | Concombre, Cornichon | Gurke | Pepino, Pepinillo | Cucumis sativus L. | CUCUM_SAT | TWV |
| TG/76/8 Rev.2 | Sweet Pepper, Hot Pepper, Paprika, Chili | Piment, Poivron | Paprika | Aji, Chile, Pimiento | Capsicum annuum L. | CAPSI_ANN | TWV |
| TG/81/6 | Sunflower | Tournesol | Sonnenblume | Girasol | Helianthus annuus L. & H. debilis Nutt. | HLNTS_ANN; HLNTS_DEB | TWA |
| TG/84/4 Corr. Rev. | Japanese Plum | Prunier japonais | Ostasiatische Pflaume | Ciruelo japonés | Prunus salicina Lindl. | PRUNU_SAL | TWF |
| TG/98/7 | Actinidia, Kiwifruit | Actinidia | Actinidia | Actinidia | Actinidia Lindl. | ACTIN | TWF |
| TG/104/5 Rev. | Melon | Melon | Melone | Melón | Cucumis melo L. | CUCUM_MEL | TWV |
| TG/119/4 | Vegetable Marrow, Squash | Rosier | Rose | Rosal | Cucurbita pepo L. | CUCUR_PEP | TWV |
| TG/142/5 | Watermelon | Melon d'eau; Pastèque; | Wassermelone | Sandía | Citrullus lanatus (Thunb.) Matsum. et Nakai, Citrullus vulgaris Schrad. | CTRLS_LAN | TWV |
| TG/187/2 | Prunus Rootstocks | Porte-greffes de Prunus | Prunus- Unterlagen | Portainjertos de prunus | Prunus L. | PRUNU | TWF |
| TG/276/1 | Hemp | Chanvre | Hanf | Cáñamo | Cannabis sativa L. | CANNB_SAT | TWA |

TC/56/23 page 11

| TG reference | Test Guidelines Common Name | Français | Deutsch | Español | Botanical Name | UPOV codes | TWPs |
|-------------------------|--------------------------------|---------------------------|-----------------------|----------------------------|--|---|------|
| TG/294/1 Corr. Rev.2 | Tomato Rootstocks | Porte-greffe de tomate | Tomatenunterlag en | Portainjertos de tomate | Solanum habrochaites S. Knapp & D.M. Spooner; Solanum lycopersicum L. x Solanum habrochaites S. Knapp & D.M. Spooner; Solanum lycopersicum L. x Solanum peruvianum (L.) Mill.; Solanum lycopersicum L. x Solanum cheesmaniae (L. Ridley) Fosberg; Solanum pimpinellifolium L. x Solanum habrochaites S. Knapp & D.M. Spooner | SOLAN_LHA, SOLAN_LPE; SOLAN_LCH; SOLAN_PHA | TWV |

79. The TC agreed to invite the Office of the Union to consult interested members of the Union to explore for which of these Test Guidelines it would be feasible to propose partial revisions that would enable members of the Union to follow a revised UPOV Technical Questionnaire. The TC agreed that for the Test Guidelines concerned, the Office of the Union would develop proposals for the partial revision of the Test Guidelines, to be presented to the TWPs, at their sessions in 2021.

Matters for information

- 80. The TC noted that the following documents had been posted as documents for information on the TC/56 webpage:
 - (a) List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability (document TC/56/INF/4)
 - (b) UPOV information databases (document TC/56/INF/3)
 - (c) UPOV PRISMA (document TC/56/INF/2)
 - (d) Variety description databases (document TC/56/INF/5)
 - (e) Molecular techniques (document TC/56/INF/6)
 - (f) Variety denominations (document TC/56/INF/7)

Program for the fifty-seventh session

- 81. The TC proposed to discuss the following items at its next session:
 - 1. Opening of the session
 - 2. Adoption of the agenda
 - 3. Report on developments in UPOV
 - 4. Progress reports on the work of the Technical Working Parties, including the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT)
 - 5. Matters arising from the Technical Working Parties
 - 6. TGP and INF documents
 - 7. Molecular techniques
 - 8. Cooperation in examination
 - 9. Increasing participation in the work of the TC and the TWPs
 - 10. Information and databases
 - (a) UPOV information databases
 - (b) UPOV PRISMA
 - (c) Exchange and use of software and equipment
 - (d) Variety description databases
 - (e) Web-based TG template
 - 11. Preparatory work
 - 12. Variety denominations
 - 13. Discussion on: minimum distances between varieties

TC/56/23 page 12

- 14. Exchange and use of software and equipment
- 15. List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability
- 16. Test Guidelines
- 17. Program for the fifty-eighth session
- 18. Adoption of the report (if time permits)
- 19. Closing of the session
- 82. The TC adopted this report at the close of its session on October 27, 2020.

[Annex I follows]

TC/56/23

ANNEX I

LIST OF PARTICIPANTS

(in the alphabetical order of the French names of the Members)

I. MEMBRES / MEMBERS / VERBANDSMITGLIEDER / MIEMBROS

AFRIQUE DU SUD / SOUTH AFRICA / SÜDAFRIKA / SUDÁFRICA

Noluthando NETNOU-NKOANA (Ms.), Director, Genetic Resources, Department of Agriculture, Rural development and Land Reform, Pretoria

(e-mail: noluthandon@daff.gov.za)

Adriaan Jakobus DE VILLIERS (Mr.), Examiner, Variety Control Division, Directorate of Genetic Resources,

Department of Agriculture, Rural development and Land Reform, Pretoria

(e-mail: riaandv@daff.gov.za)

ALLEMAGNE / GERMANY / DEUTSCHLAND / ALEMANIA

Beate RÜCKER (Ms.), Head of Division, Federal Plant Variety Office, Bundessortenamt, Hanover (e-mail: beate.ruecker@bundessortenamt.de)

ARGENTINE / ARGENTINA / ARGENTINIEN / ARGENTINA

Alberto BALLESTEROS (Sr.), Examinador de variedades, Dirección de Registro de Variedades, Instituto Nacional de Semillas (INASE), Ministerio de Agricultura, Ganadería y Pesca, Buenos Aires (e-mail: aballesteros@inase.gob.ar)

AUSTRALIE / AUSTRALIA / AUSTRALIEN / AUSTRALIA

Nik HULSE (Mr.), Chief of Plant Breeders' Rights, Plant Breeder's Rights Office, IP Australia, Woden (e-mail: nik.hulse@ipaustralia.gov.au)

AUTRICHE / AUSTRIA / ÖSTERREICH / AUSTRIA

Barbara FÜRNWEGER (Frau), Leiterin, Abteilung Sortenschutz und Registerprüfung, Institut für Saat- und Pflanzgut, Pflanzenschutzdienst und Bienen, Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH, Wien

(e-mail: barbara.fuernweger@ages.at)

BÉLARUS / BELARUS / BELARÚS

Tatsiana SIAMASHKA (Ms.), Deputy Director of DUS Testing, State Inspection for Testing and Protection of Plant Varieties, Minsk

(e-mail: belsort@sorttest.by)

Maryna SALADUKHA (Ms.), Deputy Head, International Cooperation Department, State Inspection for Testing and Protection of Plant Varieties, Minsk

(e-mail: belsort@mail.ru)

BELGIQUE / BELGIUM / BELGIEN / BÉLGICA

Shannah BOENS (Ms.), Attaché, FOD Economie, KMO, Middenstand en Energie, Algemene Directie Economische Reglementering, Dienst voor de Intellectuele Eigendom, Bruxelles (e-mail: shannah.boens@economie.fgov.be)

BRÉSIL / BRAZIL / BRASILIEN / BRASIL

Ricardo ZANATTA MACHADO (Mr.), Federal Agricultural Inspector, Coordinator, Serviço Nacional de Proteção de Cultivares (SNPC), Ministry of Agriculture, Livestock and Food Supply, Brasilia D.F. (e-mail: ricardo.machado@agricultura.gov.br)

CANADA / CANADA / KANADA / CANADÁ

Ashley BALCHIN (Ms.), Examiner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), Ottawa

(e-mail: ashley.balchin@canada.ca)

Renée CLOUTIER (Ms.), Examiner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), Ottawa

(e-mail: Renee.Cloutier@canada.ca)

CHILI / CHILE / CHILE / CHILE

Manuel Antonio TORO UGALDE (Sr.), Jefe Departamento, Registro de Variedades Protegidas, División Semillas, Servicio Agrícola y Ganadero (SAG), Santiago de Chile (e-mail: manuel.toro@sag.gob.cl)

CHINE / CHINA / CHINA / CHINA

Yehan CUI (Mr.), Division Director, Division of Plant Variety Protection, Development Center of Science & Technology (DCST), Ministry of Agriculture and Rural Affairs (MARA), Beijing (e-mail: cuiyehan@agri.gov.cn)

Yongqi ZHENG (Mr.), Director, Laboratory for Molecular Testing of New Plant Varieties, Office of Protection of New Varieties of Plants, National Forestry and Grassland Administration, Beijing (e-mail: zhengyq@caf.ac.cn)

Wen WEN (Ms.), Deputy Division Director, Division of New Plant Variety Protection, Development Center of Science and Technology, Ministry of Agriculture and Rural Affairs (MARA), Beijing (e-mail: wenwen@agri.gov.cn)

Xuhong YANG (Ms.), Deputy Division Director, Development Center of Science and Technology, Beijing (e-mail: yangxuhong@agri.gov.cn)

Boxuan WU (Mr.), Program Administrator, Division I, International Cooperation Department, China National Intellectual Property Administration (CNIPA)

(e-mail: wuboxuan@cnipa.gov.cn)

Yanjie HU (Ms.), Researcher, Chinese Academy of Forestry, Beijing (e-mail: yanjie@caf.ac.cn)

COLOMBIE / COLOMBIA / KOLUMBIEN / COLOMBIA

Alfonso Alberto ROSERO (Sr.), Director Técnico de Semillas, Subgerencia de Protección Vegetal, Instituto Colombiano Agropecuario (ICA), Bogotá

(e-mail: alberto.rosero@ica.gov.co)

Yesid Andrés SERRANO (Sr.), Tercero Secretario, Misión Permanente de Colombia ante las Naciones Unidas y otros Organismos Internacionales en Ginebra, Ginebra (e-mail: yesid.serrano@cancilleria.gov.co)

DANEMARK / DENMARK / DÄNEMARK / DINAMARCA

Gerhard DENEKEN (Mr.), Director, Tystofte Foundation, Skaelskoer (e-mail: gde@tystofte.dk)

ÉGYPTE / EGYPT / ÄGYPTEN / EGIPTO

Mohamed SOLIMAN (Mr.), President, Agricultural Research Council (ARC), Giza (e-mail: arcpresident@yahoo.com)

Mahasen Fawaz Mohamed GAD (Ms.), General Manager, Plant Variety Protection Office, Central Administration for Seed Certification (CASC), Giza

(e-mail: mahasen.f.gad@gmail.com)

Shymaa ABOSHOSHA (Ms.), Agronomic Engineer, Plant Variety Protection Office (PVPO), Central Administration for Seed Testing and Certification (CASC), Giza (e-mail: sh z9@hotmail.com)

ÉQUATEUR / ECUADOR / ECUADOR / ECUADOR

Heidi VÁSCONES (Sra.), Segunda Secretaria, Misión Permanente del Ecuador ante Organización Mundial de Comercio, Ginebra

(e-mail: t-hvascones@cancilleria.gob.ec)

ESPAGNE / SPAIN / SPANIEN / ESPAÑA

Nuria URQUÍA FERNÁNDEZ (Sra.), Jefe de Área de registro de variedades, Subdirección General de Medios de Producción Agrícola y Oficina Española de Variedades Vegetales (OEVV), Ministerio de Agricultura, Pesca y Alimentación (MAPA), Madrid (e-mail: nurquia@mapa.es)

ESTONIE / ESTONIA / ESTLAND / ESTONIA

Kristiina DIGRYTE (Ms.), Adviser, Plant Health Department, Tallinn

(e-mail: kristiina.digryte@agri.ee)

Anu NEMVALTS (Ms.), Head of Department, Organic Farming and Seed Department, Estonian Agricultural

Board, Saku

(e-mail: anu.nemvalts@pma.agri.ee)

<u>ÉTATS-UNIS D'AMÉRIQUE / UNITED STATES OF AMERICA / VEREINIGTE STAATEN VON AMERIKA /</u> ESTADOS UNIDOS DE AMÉRICA

Christian HANNON (Mr.), Patent Attorney, Office of Policy and International Affairs (OPIA), U.S. Patent and Trademark Office, United States Patent and Trademark Office (USPTO), Department of Commerce, Alexandria

(e-mail: christian.hannon@uspto.gov)

Jeffery HAYNES (Mr.), Commissioner, Plant Variety Protection Office, USDA, AMS, S&T, Washington D.C. (e-mail: Jeffery.Haynes@usda.gov)

Yasmine Nicole FULENA (Ms.), Intellectual Property Adviser, Permanent Mission of the United States of America to the United Nations Office and other international organizations in Geneva, Chambésy (e-mail: fulenayn@state.gov)

<u>FÉDÉRATION DE RUSSIE / RUSSIAN FEDERATION / RUSSISCHE FÖDERATION / FEDERACIÓN DE RUSIA</u>

Anton GAITER (Mr.), Head, Methodology and International Cooperation Department, State Commission of the Russian Federation for Selection Achievements Test and Protection, Moscow (e-mail: metod@gossortrf.ru)

FINLANDE / FINLAND / FINNLAND / FINLANDIA

Kaarina PAAVILAINEN (Ms.), Senior Officer, Seed Unit, Finnish Food Authority, Loimaa (e-mail: kaarina.paavilainen@ruokavirasto.fi)

FRANCE / FRANCE / FRANKREICH / FRANCIA

Alain TRIDON (Mr.), CEO, Groupe d'Etude et de contrôle des Variétés et des Semences (GEVES), Beaucouzé

(e-mail: alain.tridon@geves.fr)

Fabien MASSON (Mr.), Head of Variety Study Department (SEV), Groupe d'Etude et de contrôle des Variétés et des Semences (GEVES), Beaucouzé

(e-mail: fabien.masson@geves.fr)

Clarisse LECLAIR (Ms.), Head of DUS Testing, Groupe d'étude et de contrôle des variétés et des semences (GEVES), Beaucouzé

(e-mail: clarisse.leclair@geves.fr)

GÉORGIE / GEORGIA / GEORGIEN / GEORGIA

Merab KUTSIA (Mr.), Head, Department of Inventions and New Plant Varieties and Animal Breeds, National Intellectual Property Center (SAKPATENTI), Mtskheta (e-mail: mkutsia@sakpatenti.org.ge)

ITALIE / ITALY / ITALIEN / ITALIA

Romana BRAVI (Ms.), Senior researcher, Agricultural Research Council and Economics Analysis - Plant Protection and Seed Certification (CREA - DC), Bologna

(e-mail: romana.bravi@crea.gov.it)

Pier Giacomo BIANCHI (Mr.), Scientific Coordinator Seed Area, Plant Protection and Seed Certification (CREA - DC), Milano

(e-mail: piergiacomo.bianchi@crea.gov.it)

JAPON / JAPAN / JAPAN / JAPÓN

Tomochika MOTOMURA (Mr.), Principal Deputy Director, Intellectual Property Division, Food Industry Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Tokyo

(e-mail: tomochika_motomur130@maff.go.jp)

Teruhisa MIYAMOTO (Mr.), Deputy Director of Plant Variety Office, Intellectual Propetry Division, Food Industry Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Tokyo (e-mail: teruhisa_miyamoto170@maff.go.jp)

Hideki MAEDA (Mr.), Chief Examiner, Plant Variety Protection Office, Intellectual Property Division , Food Industry Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Tokyo (e-mail: hideki_maeda860@maff.go.jp)

Yoshiyuki OHNO (Mr.), Examiner, Intellectual Property Division , Food Industry Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries (MAFF), Tokyo (e-mail: yoshiyuki ono300@maff.go.jp)

KENYA / KENYA / KENIA / KENYA

Simon Mucheru MAINA (Mr.), Ag. General Manager, Quality Assurance, Kenya Plant Health Inspectorate Service (KEPHIS), Nairobi

(e-mail: smaina@kephis.org)

Jacob CHEPTAIWA (Mr.), AG Head, Seed Certification and Plant Variety Office, Kenya Plant Health Inspectorate Service (KEPHIS),

Nairobi (e-mail: jcheptaiwa@kephis.org)

Gentrix Nasimiyu JUMA (Ms.), Chief Plant Examiner, Kenya Plant Health Inspectorate Service (KEPHIS), Nairobi

(e-mail: gjuma@kephis.org)

LETTONIE / LATVIA / LETTLAND / LETONIA

Inga OVSJANNIKA (Ms.), Senior Officer, Division of Seed Certification and Plant Variety Protection, Seed Control Department, State Plant Protection Service, Riga (e-mail: inga.ovsjannika@vaad.gov.lv)

MEXIQUE / MEXICO / MEXIKO / MÉXICO

Leobigildo CÓRDOVA TÉLLEZ (Sr.), Titular, Servicio Nacional de Inspección y Certificación de Semillas (SNICS), Secretaría de Agricultura y Desarrollo Rural (SADER), México (e-mail: leobigildo.cordova@agricultura.gob.mx)

NOUVELLE-ZÉLANDE / NEW ZEALAND / NEUSEELAND / NUEVA ZELANDIA

Christopher James BARNABY (Mr.), PVR Manager / Assistant Commissioner, Plant Variety Rights Office, Intellectual Property Office of New Zealand, Ministry of Economic Development, Christchurch (e-mail: Chris.Barnaby@pvr.govt.nz)

ORGANISATION AFRICAINE DE LA PROPRIÉTÉ INTELLECTUELLE /

AFRICAN INTELLECTUAL PROPERTY ORGANIZATION /

AFRIKANISCHE ORGANISATION FÜR GEISTIGES EIGENTUM /

ORGANIZACIÓN AFRICANA DE LA PROPIEDAD INTELECTUAL

Vladimir Ludovic MEZUI ONO (M.), Examinateur des Brevets, chargé des obtentions végétales, Organisation africaine de la propriété intellectuelle (OAPI), Yaoundé (e-mail: vladimir.mezui@oapi.int)

Cheikh Alassane FALL (M.), Coordinateur, Bureau de la Propriété Intellectuelle et des Ressources Génétiques, Institut sénégalais de recherches agricoles (ISRA), Dakar (e-mail: alassane.fall@isra.sn)

Aimé-Didier BEGOUDE BOYOGUENO (M.), Chercheur, Institut de Recherche Agricole pour le Développement (IRAD), Yaoundé

(e-mail: dbegoude@yahoo.fr)

PAYS-BAS / NETHERLANDS / NIEDERLANDE / PAÍSES BAJOS

Bert SCHOLTE (Mr.), Head Department Variety Testing, Naktuinbouw NL, Roelofarendsveen (e-mail: b.scholte@naktuinbouw.nl)

Amanda VAN DIJK-VELDHUIZEN (Ms.), Manager DUS, Naktuinbouw Rassenonderzoek (Variety Testing), Roelofarendsveen

(e-mail: a.v.dijk@naktuinbouw.nl)

Henk J. DE GREEF (Mr.), Expert, Naktuinbouw, Roelofarendsveen

(e-mail: henkjdegreef@hetnet.nl)

POLOGNE / POLAND / POLEN / POLONIA

Marcin KRÓL (Mr.), Head, DUS Testing Department, Research Centre for Cultivar Testing (COBORU), Slupia Wielka

(e-mail: M.Krol@coboru.gov.pl)

PORTUGAL / PORTUGAL / PORTUGAL

Carlos PEREIRA GODINHO (Mr.), Senior officer, Directorate General for Food and Veterinary, Lisboa (e-mail: carlos.godinho@dgav.pt)

RÉPUBLIQUE DE CORÉE / REPUBLIC OF KOREA / REPUBLIK KOREA / REPÚBLICA DE COREA

Eunhee SOH (Ms.), Deputy Director/Examiner, Plant Variety Protection Division, Korea Seed and Variety Service (KSVS), Gimcheon City

(e-mail: eunhee.soh@korea.kr)

Su Yong CHOI (Mr.), Senior Examiner, Korea Seed and Variety Service (KSVS), Korea Seed and Variety Service (KSVS), Gimcheon City (e-mail: seed1886@korea.kr)

RÉPUBLIQUE DOMINICAINE / DOMINICAN REPUBLIC / DOMINIKANISCHE REPUBLIK / REPÚBLICA DOMINICANA

María Ayalivis GARCÍA MEDRANO (Sra.), Directora, Oficina para el Registro de Variedades y Obtenciones Vegetales (OREVADO), Santo Domingo

(e-mail: mgarcia@orevado.gob.do)

Víktor V. RODRÍGUEZ SILVA (Sr.), Director, Oficina de Tratados Comerciales Agrícolas (OTCA), Ministerio de Agricultura, Santo Domingo

(e-mail: vrodriguez@otca.gob.do)

RÉPUBLIQUE TCHÈQUE / CZECH REPUBLIC / TSCHECHISCHE REPUBLIK / REPÚBLICA CHECA

Tomás MEZLÍK (Mr.), Head, National Plant Variety Office, Central Institute for Supervising and Testing in Agriculture (ÚKZÚZ), Brno

(e-mail: tomas.mezlik@ukzuz.cz)

Andrea POVOLNÁ (Ms.), Head of DUS Department, National Plant Variety Office, Central Institute for Supervising and Testing in Agriculture (UKZUZ), Brno

(e-mail: andrea.povolna@ukzuz.cz)

Radmila SAFARIKOVÁ (Ms.), Senior Officer, National Plant Variety Office, Central Institute for Supervising and Testing in Agriculture (UKZUZ), Brno

(e-mail: radmila.safarikova@ukzuz.cz)

RÉPUBLIQUE-UNIE DE TANZANIE / UNITED REPUBLIC OF TANZANIA / VEREINIGTE REPUBLIK TANSANIA / REPÚBLICA UNIDA DE TANZANÍA

Patrick NGWEDIAGI (Mr.), Director General, Tanzania Official Seed Certification Institute (TOSCI), Morogoro

(e-mail: ngwedi@yahoo.com; pat.ngwedi@gmail.com)

Twalib Mustafa NJOHOLE (Mr.), Registrar of Plant Breeders' Rights, Plant Breeders Rights' Office, Ministry of Agriculture (MoA), Dodoma

(e-mail: twalibnjohole8@gmail.com)

Jacqueline MBUYA MHANDO (Ms.), Principal Agricultural Officer, Plant Breeders' Rights Office, Ministry of Agriculture (MOA), Dodoma

(e-mail: jfranto@yahoo.com)

Joyce Eligi MOSILE (Ms.), Agricultural Officer, Plant Breeders' Rights Office, Ministry of Agriculture (MOA), Dodoma

(e-mail: Joyce.mosile@kilimo.go.tz)

Lawrence NDOSI (Mr.), Agricultural Officer, Plant Breeders' Rights Office, Ministry of Agriculture (MoA), Dodoma

(e-mail: lawrenceyobu@gmail.com)

Dorah BIVUGILE (Ms.), Research Officer, Tanzania Official Seed Certification Institute (TOSCI), Morogoro (e-mail: maydorah@gmail.com)

ROUMANIE / ROMANIA / RUMÄNIEN / RUMANIA

Teodor Dan ENESCU (Mr.), Counsellor, State Institute for Variety Testing and Registration (ISTIS), Bucarest (e-mail: enescu_teodor@istis.ro)

ROYAUME-UNI / UNITED KINGDOM / VEREINIGTES KÖNIGREICH / REINO UNIDO

Mara RAMANS (Ms.), Head for Varieties and Seed Delivery, Animal and Plant Health Agency (APHA), Cambridge

(e-mail: mara.ramans@apha.gov.uk)

Robert WARLOW (Mr.), Team Leader, National Listing / Plant Breeders' Rights, Animal and Plant Health Agency (APHA), Cambridge

(e-mail: rob.warlow@apha.gov.uk)

SERBIE / SERBIA / SERBIEN / SERBIA

Jovan VUJOVIC (Mr.), Head, Plant Protection Directorate, Group for Plant Variety Protection and Biosafety, Ministry of Agriculture, Forestry and Water Management, Belgrade

(e-mail: jovan.vujovic@minpolj.gov.rs)

Gordana LONCAR (Ms.), Senior Adviser for Plant Variety protection, Plant Protection Directorate, Group for Plant Variety Protection and Biosafety, Ministry of Agriculture, Forestry and Water Management, Belgrade (e-mail: gordana.loncar@minpolj.gov.rs)

SLOVAQUIE / SLOVAKIA / SLOWAKEI / ESLOVAQUIA

L'ubomir BASTA (Mr.), National Coordinator for the Cooperation of the Slovak Republic with UPOV, Senior Officer, Department of Variety Testing, Central Control and Testing Institute in Agriculture (ÚKSÚP), Bratislava

(e-mail: lubomir.basta@uksup.sk)

SUISSE / SWITZERLAND / SCHWEIZ / SUIZA

Manuela BRAND (Ms.), Plant Variety Rights Office, Plant Health and Varieties, Office fédéral de l'agriculture (OFAG), Bern

(e-mail: manuela.brand@blw.admin.ch)

TUNISIE / TUNISIA / TUNESIEN / TÚNEZ

Omar BRAHMI (M.), Chef, Service d'homologation et de protection des obtentions végétales, Direction Général de la Santé Végétale et de Contrôle des Intrants Agricoles, Ministère de l'Agriculture, des Ressources Hydrauliques et de la Pêche, Tunis

(e-mail: brahmi_omar@yahoo.fr)

<u>UNION EUROPÉENNE / EUROPEAN UNION / EUROPÄISCHE UNION / UNIÓN EUROPEA</u>

Beate RÜCKER (Ms.), Head of Division, Federal Plant Variety Office, Bundessortenamt, Hanover (e-mail: beate.ruecker@bundessortenamt.de)

Päivi MANNERKORPI (Ms.), Team Leader - Plant Reproductive Material, Unit G1 Plant Health, Directorate General for Health and Food Safety (DG SANTE), European Commission, Brussels (e-mail: paivi.mannerkorpi@ec.europa.eu)

Stefan HAFFKE (Mr.), Policy Officer, Directorate General for Health and Food Safety (DG SANTE), Brussels (e-mail: stefan.haffke@ec.europa.eu)

Dirk THEOBALD (Mr.), Senior Adviser, Community Plant Variety Office (CPVO), Angers (e-mail: theobald@cpvo.europa.eu)

Jean MAISON, Deputy Head, Technical Unit, Community Plant Variety Office (CPVO), Angers (e-mail: maison@cpvo.europa.eu)

URUGUAY / URUGUAY / URUGUAY

Virginia Roxana OLIVIERI GÓMEZ (Ms.), Coordinator, Variety Testing and Registration, Instituto Nacional de Semillas (INASE), Canelones (e-mail: volivieri@inase.uy)

VIET NAM / VIETNAM / VIET NAM

Nguyen Thanh MINH (Mr.), Director, Plant Variety Protection Office (PVPO), Department of Crop Production (DCP), Ministry of Agriculture and Rural Development (MARD), Hanoi (e-mail: minh pvp@yahoo.com)

II. OBSERVATEURS / OBSERVERS / BEOBACHTER / OBSERVADORES

KAZAKHSTAN / KAZAKHSTAN / KASACHSTAN / KAZAJSTÁN

Talgat AZHGALIYEV (Mr.), Chairman, State Commission for Variety Testing of Crops, Nur-Sultan (e-mail: goskomKZ@mail.ru)

Altynay BATYRBEKOVA (Ms.), Head, Department on Inventions, Utility Models and Selection Achievements, National Institute of Intellectual Property, Nur-Sultan

(e-mail: a.batyrbekova@kazpatent.kz)

Dana ALIMZHANOVA (Ms.), Head, Division for Formal Examination of Inventions and Selection Achievements, National Institute of Intellectual Property, Nur-Sultan

(e-mail: d.alimzhanova@kazpatent.kz)

Adilkan UROMBAEV (Mr.), Chief Expert, Division for Formal Examination of Inventions and Selection Achievements, National Institute of Intellectual Property, Nur-Sultan (e-mail: a.urombaev@kazpatent.kz)

Gulferuz Mairambekovna SEITPENBETOVA (Ms.), Specialist, State Commission for Variety Testing for Crops, Nur-Sultan

(e-mail: goskomkz@mail.ru)

MYANMAR / MYANMAR / MYANMAR / MYANMAR

Thant Lwin OO (Mr.), Deputy Director General, Plant Variety Protection Section, Department of Agricultural Research (DAR), Ministry of Agriculture, Livestock and Irrigation (MOALI), Nay Pyi Taw (e-mail: tthant2007@gmail.com)

Min San THEIN (Mr.), Senior Research Officer, Plant Variety Protection Section, Department of Agricultural Research (DAR), Ministry of Agriculture, Livestock and Irrigation (MOALI), Nay Pyi Taw (e-mail: minsanthein@gmail.com)

Pa Pa WIN (Ms.), Research Officer, Head of PVP Section, Department of Agricultural Research (DAR), Ministry of Agriculture, Livestock and Irrigation (MOALI), Nay Pyi Taw (e-mail: papawin08@gmail.com)

THAÏLANDE / THAILAND / THAILAND / TAILANDIA

Thidakoon SAENUDOM (Ms.), Director of the Plant Variety Protection Research Group, Plant Variety Protection Office, Ministry of Agriculture and Cooperatives, Bangkok (e-mail: thidakuns@hotmail.com)

Jaruwan SUKKHAROM (Ms.), Minister Counsellor, Permanent Mission of Thailand to the WTO, Geneva (e-mail: jaruwan@thaiwto.com)

Pornpimol SUGANDHAVANIJA (Ms.), DPR, Permanent Mission of Thailand to the WTO, Geneva (e-mail: pornpimol@thaiwto.com)

ZIMBABWE / ZIMBABWE / SIMBABWE / ZIMBABWE

Claid MUJAJU (Mr.), Head / Registrar, Plant Breeders' Rights, Department of Research and Specialist Services, Seed Services Institute, Harare (e-mail: mujajuclaid@gmail.com)

III. ORGANISATIONS / ORGANIZATIONS / ORGANISATIONEN / ORGANIZACIONES

CROPLIFE INTERNATIONAL

Marcel BRUINS (Mr.), Consultant, CropLife International, Bruxelles (e-mail: mbruins1964@gmail.com)

EUROSEEDS

Catherine Chepkurui LANG'AT (Ms.), Technical Manager Plant Breeding & Variety Registration, Euroseeds, Bruxelles

(e-mail: catherinelangat@euroseeds.eu)

INTERNATIONAL SEED FEDERATION (ISF)

Szabolcs RUTHNER (Mr.), Regulatory Affairs Manager, International Seed Federation (ISF), Nyon (e-mail: s.ruthner@worldseed.org)

Astrid M. SCHENKEVELD (Ms.), Specialist, Plant Breeder's Rights & Variety Registration | Legal, Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier

(e-mail: a.schenkeveld@rijkzwaan.nl)

John Howard DUESING (Mr.), Consultant, Consulting EDV Project Manager, American Seed Trade Association (ASTA), West Des Moines

(e-mail: jhd3@mchsi.com)

ORGANISATION RÉGIONALE AFRICAINE DE LA PROPRIÉTÉ INTELLECTUELLE (ARIPO) / AFRICAN REGIONAL INTELLECTUAL PROPERTY ORGANIZATION (ARIPO) / AFRIKANISCHE REGIONALORGANISATION FÜR GEWERBLICHES EIGENTUM (ARIPO) ORGANIZACIÓN REGIONAL AFRICANA DE LA PROPIEDAD INTELECTUAL (ARIPO)

Emmanuel SACKEY (Mr.), Intellectual Property Development Executive, Harare (e-mail: esackey@aripo.org)

COMMUNAUTÉ INTERNATIONALE DES OBTENTEURS DE PLANTES HORTICOLES À REPRODUCTION ASEXUÉE (CIOPORA) /

INTERNATIONAL COMMUNITY OF BREEDERS OF ASEXUALLY REPRODUCED HORTICULTURAL PLANTS (CIOPORA) /

<u>INTERNATIONALE GEMEINSCHAFT DER ZÜCHTER VEGETATIV VERMEHRBARER</u> GARTENBAULICHER PFLANZEN (CIOPORA) /

COMUNIDAD INTERNACIONAL DE OBTENTORES DE PLANTAS HORTÍCOLAS DE REPRODUCCIÓN ASEXUADA (CIOPORA)

Silvia SARTORELLI (Ms.), CIOPORA Head Technical Expert (THE), Ornamental, Cultivar Protection, Holambra

(e-mail: silvia@cultivarprotection.com.br)

Burgert VAN DYK (Mr.), CIOPORA Head Technical Expert Fruit, Regional Director South Africa, Fall Creek Farm and Nursery, Inc., Paarl

(e-mail: burgertvd@fallcreeknursery.com)

SEED ASSOCIATION OF THE AMERICAS (SAA)

Stevan MADJARAC (Mr.), Germplasm IP Lead, Bayer Crop Science, Ankeny (e-mail: stevan.madjarac@bayer.com)

ASSOCIATION AFRICAINE DU COMMERCE DES SEMENCES (AFSTA) / AFRICAN SEED TRADE ASSOCIATION (AFSTA) / AFRIKANISCHES SAATGUTHANDELSVERBAND (AFSTA) /

ASOCIACIÓN AFRICANA DE COMERCIO DE SEMILLAS (AFSTA)

Grace GITU (Ms), Technical Officer, Africa Seed Trade Association (AFSTA), Nairobi (e-mail: gitu@afsta.org)

IV. BUREAU / OFFICER / VORSITZ / OFICINA

Nik HULSE (Mr.), Chair Beate RÜCKER (Ms.), Vice-Chair

V. BUREAU DE L'UPOV / OFFICE OF UPOV / BÜRO DER UPOV / OFICINA DE LA UPOV

Daren TANG (Mr.), Secretary-General

Peter BUTTON (Mr.), Vice Secretary-General

Yolanda HUERTA (Ms.), Legal Counsel and Director of Training and Assistance

Ben RIVOIRE (Mr.), Head of Seed Sector Cooperation and Regional Development (Africa, Arab Countries)

Leontino TAVEIRA (Mr.), Head of Technical Affairs and Regional Development (Latin America, Caribbean)

Hend MADHOUR (Ms.), IT Officer

Manabu SUZUKI (Mr.), Technical/Regional Officer (Asia)

Romy OERTEL (Ms.), Secretary II

[Annex II follows]

TC/56/23

ANNEX II

PROGRESS REPORT ON THE WORK OF THE TECHNICAL WORKING PARTIES AND THE WORKING GROUP ON BIOCHEMICAL AND MOLECULAR TECHNIQUES, AND DNA-PROFILING IN PARTICULAR (BMT)

Fifty-fourth session of the Technical Working Party for Vegetables (TWV)

Report by Ms. Romana Bravi (Italy), Chairperson of the TWV

- 1. The TWV held its fifty-fourth session, hosted by Brazil and organized by electronic means, from May 11 to 15, 2020, under the chairmanship of Ms. Romana Bravi (Italy). The report of the session is provided in document TWV/54/9 "Report".
- 2. The session was attended by 81 participants from 27 members of the Union and 3 observer organizations.
- 3. The TWV was welcomed by Mr. Marcio Rezende Evaristo Carlos, Deputy Secretary of Animal and Plant Health (SDA), Ministry of Agriculture, Livestock and Food Supply (MAPA).
- 4. The TWV received a presentation on plant variety protection in Brazil by Mr. Ricardo Zanatta Machado, Coordinator, National Service of Plant Variety Protection (SNPC).
- 5. The TWV considered the different approaches to convert observations into notes for producing variety descriptions for measured quantitative characteristics, as presented in document TWP/4/10, Annexes III to VII, and information, if any, that could facilitate their application. The TWV noted the comments provided by the European Union and Germany on the methods described in the Annexes of document TWP/4/10 and agreed to request additional information.
- 6. The TWV received a presentation on "Information on molecular markers in Test Guidelines explanations" from an expert from the Netherlands. A copy of the presentation is provided in documents TWV/54/7 and TWV/54/7 Add. The TWV considered the proposal to determine essential criteria for describing molecular marker assays in Test Guidelines, as presented in documents TWV/54/7 and TWV/54/7 Add. The TWV agreed to invite the experts from the European Union and France to work with the Netherlands to prepare a new draft proposal for consideration by the TWV, at its fifty-fifth session
- 7. The TWV considered the proposal to amend the UPOV codes for *Beta vulgaris*, as set out in document TWP/4/4, Annex II. The TWV recalled that, at its fifty-second session, it had agreed that the information on type of maize (popcorn, sweet corn) and red and white cabbage varieties was useful for grouping varieties and organizing growing trials and should remain in the database (see document TWV/52/20 "Report", paragraph 94). The TWV agreed that the same approach should be used for UPOV codes of the different types of beet varieties.
- 8. The TWV noted that the TC, at its fifty-fifth session, had agreed to propose the revision of the list of classes in document UPOV/INF/12/5 to remove Industrial Chicory from denomination class 205, creating a new denomination class 205B, as follows:

| Class 205 | Cichorium, Lactuca | CICHO; LACTU |
|-------------|-----------------------------------|----------------|
| [Class 205B | Cichorium intybus L. var. sativum | CICHO_INT_SATI |

- 9. The TWV noted that Class 205B separated two subspecies in different denomination classes; Leaf Chicory (CICHO_INT_FOL) in Class 205; and Industrial Chicory (CICHO_INT_SAT) in new Class 205B. The TWV agreed that approximately 1200 varieties with UPOV code CICHO_INT in the PLUTO database could not be allocated with certainty to either one of the Classes. The TWV noted the concerns expressed by participants and agreed not to support the proposal to split denomination Class 205 at this stage. The TWV agreed that the proposal should be reconsidered at its fifty-fifth session.
- 10. The TWV received a presentation on "Data processing for disease resistance characteristics: the Pathostat application" by an expert from France. A copy of the presentation is provided in document TWV/54/6 Rev.. The TWV received a presentation on "Disease resistance tests on *Solanum sisymbrifolium*, *S. torvum* and *S. aethiopicum*: tomato and eggplant rootstocks Italian laboratory experience" by an expert from Italy. The TWV agreed to propose that the expert from France be invited to present the

Pathostat software to the TWC, at its thirty-eighth session. The TWV noted the offer from France to provide data for interested experts to test the software. The TWV noted the expression of interest of the experts from Germany, Italy and Netherlands to test the software and agreed to invite the expert from France to report developments on testing at its next session, under the agenda item "Use of disease resistance characteristics". The TWV noted the offer from France for UPOV members to use the Pathostat software free of charge. It further invited the expert from France to consider whether to propose the inclusion of Pathostat in document UPOV/INF/16 "Exchangeable Software", in response of Circular E-20/031, issued by the Office of the Union on April 14, 2020.

Naming of intermediate state of expression in disease resistance characteristics

- 11. The TWV considered the naming of the intermediate state of expression in disease resistance characteristics. The TWV noted that guidance in document TGP/12 "Guidance on certain physiological characteristics" provided an example of quantitative disease resistance characteristic with intermediate state of expression "moderately".
- 12. The TWV noted that the term "intermediate" was commonly used among experts and agreed to propose amending the example for quantitative disease resistance characteristics with "1–3" scale in document TGP/12 to replace state of expression "moderately" by "intermediate". The TWV agreed that, in general, this should be the term used in Test Guidelines for disease resistance characteristics.
- 13. The TWV welcomed the offer from France and the Netherlands to present, at its fifty-fifth session, the current practice of the expression of intermediate state in disease resistance characteristics. It further noted the request made by the representative from ISF to seek alignment in the terminology used for disease resistance and invited ISF to make a presentation at its fifty-fifth session, on the view of the breeding vegetable seed industry on the terminology used for disease resistance.
- 14. The TWV discussed seven draft Test Guidelines and agreed that the draft Test Guidelines for Brown Mustard (*Brassica juncea* (L.) Czern.) and Chick-pea (*Cicer arietinum* L.) (Revision) should be submitted to the TC for adoption at its fifty-sixth session.
- 15. The TWV agreed to discuss the draft Test Guidelines for Chinese cabbage, Egg plant, Garden Rocket (Partial revision), Garlic (Partial revision), Kale, Lettuce (Partial revision), Melon (Partial revision), Pea (Partial revision), Pepper, Squash (Partial revision), Tomato, Tomato rootstock (Partial revision), Turnip, Wild Rocket (Partial revision) at its fifty-fifth session.
- 16. At the invitation of Turkey, the TWV agreed to hold its fifty-fifth session in Antalya, Turkey, from May 3 to 7, 2021.
- 17. The TWV proposed to discuss the following items at its next session:
 - 1. Opening of the Session
 - 2. Adoption of the agenda
 - 3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers
 - (b) Reports on developments within UPOV (oral report by the Office of the Union)
 - 4. Molecular Techniques
 - (a) Developments in UPOV (document to be prepared by the Office of the Union)
 - (b) Presentation on the use of molecular techniques in DUS examination (presentations invited from members of the Union)
 - 5. TGP documents
 - Variety denominations (document to be prepared by the Office of the Union)
 - 7. Information and databases
 - (a) UPOV information databases (document to be prepared by the Office of the Union)
 - (b) Variety description databases (document to be prepared by the Office of the Union and presentations invited from France and the Netherlands)
 - (c) Exchange and use of software and equipment (document to be prepared by the Office of the Union)
 - (d) UPOV PRISMA (document to be prepared by the Office of the Union)
 - 8. Experiences with new types and species (oral reports invited)

- 9. New issues arising for DUS examination (presentations invited from members of the Union)
- 10. Use of disease resistance characteristics (presentations invited from France, the Netherlands and ISF and other members of the Union and observers)
- 11. Indication of grouping characteristics on the UPOV Test Guidelines (Table of characteristics and TQ5) (presentation by France and the European Union)
- 12. Matters to be resolved concerning Test Guidelines put forward for adoption by the Technical Committee (if appropriate)
- 13. Discussions on draft Test Guidelines (Subgroups)
- 14. Recommendations on draft Test Guidelines
- 15. Guidance for drafters of Test Guidelines
- 16. Date and place of the next session
- 17. Future program
- 18. Report on the session (if time permits)
- 19. Closing of the session

Fifty-second session of the TWO

Report by Mr. Henk de Greef (Netherlands), Chairperson of the TWO

- 18. The TWO held its fifty-second session, hosted by the Netherlands and organized by electronic means, from June 8 to 12, 2020, under the chairmanship of Mr. Henk de Greef (Netherlands). The report of the session is provided in document TWO/52/11 "Report".
- 19. The session was attended by 59 participants representing 20 members of the Union, one observer State and one observer organizations.
- 20. The TWO was welcomed by Mr. Marien Valstar, Senior Policy Officer, Seeds and Plant Propagation Material, Ministry of Agriculture, Nature and Food Quality, DG AGRO.
- 21. The TWO received a presentation by Mr. Bert Scholte, Head of Variety Testing Department, Naktuinbouw, on plant variety protection in the Netherlands.
- 22. The TWO considered the revision of document TGP/5 Section 6 "UPOV Report on Technical Examination and UPOV Variety Description" and the explanation to item 16 "Similar Varieties and Differences from These Varieties", as presented in the Annex to Chapter "UPOV Variety Description". The TWO noted there were different interpretations among participants on the sentence: "Only those characteristics that show sufficient differences to establish distinctness should be given." The TWO agreed to invite the European Union to make a presentation on "providing information on 'Similar varieties and differences from these varieties'" at its fifty-third session.
- 23. The TWO considered the different approaches to convert observations into notes for producing variety descriptions for measured quantitative characteristics, as presented in document TWP/4/10, Annexes III to VII, and agreed that the approaches were primarily aimed at species with larger sample sizes and multi-year data sets, which was not often the case for ornamental species.
- 24. The TWO received presentations about 'Minimum distances' from an expert of The Netherlands, about a project of distinctness in Tulips, and from an expert from the International Community of Breeders of Asexually Reproduced Ornamental and Fruit-Tree Varieties (CIOPORA), on the conclusions of the project "Minimum distances between vegetatively propagated ornamental varieties The Pelargonium Case Study". The TWO agreed to invite presentations at its fifty-third session to report on further developments on those projects.
- 25. The TWO received a presentation on "Disease resistance in ornamental crops" from an expert of The Netherlands. The TWO received an invitation from the Netherlands for interested experts to participate in a ring test for resistance to *Puccinia horiana* in Chrysanthemum varieties. The TWO agreed to invite the Netherlands to report on developments on the ring test at its fifty-third session.
- 26. The TWO received a presentation on "Possible developments to enable UPOV Codes to provide useful information on variety groups or types for DUS testing purposes" (Plavarlis project) by an expert from the

European Union. A copy of the presentation is provided in document TW/52/9. The TWO agreed to invite the European Union to report developments on the project at its fifty-third session.

- 27. The TWO discussed 13 draft Test Guidelines and agreed that the draft Test Guidelines for Calibrachoa (Partial revision), Chrysanthemum (Partial revision), Coreopsis, Hydrangea, Lagerstroemia and Ranunculus should be submitted to the TC for adoption at its fifty-sixth session.
- 28. The TWO agreed to discuss the draft Test Guidelines for Amaryllis, Anthurium (Revision), Berberis, Echinacea, Eustoma, Lavender, Ling/Scots Heather, Magnolia, *Oxypetalum coeruleum*, Statice, Weigela and Zinnia at its fifty-third session.
- 29. At the invitation of the Netherlands, the TWO agreed to hold its fifty-third session in Roelofarendsveen, Netherlands, from June 7 to 11, 2021.
- 30. The TWO agreed to discuss the following items at its next session:
 - 1. Opening of the session
 - 2. Adoption of the agenda
 - 3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers (written reports to be prepared by members and observers)
 - (b) Reports on developments within UPOV (document to be prepared by the Office of the Union)
 - 4. TGP documents (documents to be prepared by the Office of the Union)
 - 5. Information and databases
 - (a) UPOV information databases (document to be prepared by the Office of the Union)
 - (b) Variety description databases (document to be prepared by the Office of the Union and documents invited)
 - (c) Exchange and use of software and equipment (document to be prepared by the Office of the Union)
 - (d) UPOV PRISMA (document to be prepared by the Office of the Union)
 - 6. Molecular techniques (document to be prepared by the Office of the Union)
 - 7. New issues arising for DUS examination (documents invited)
 - 8 Minimum distances between vegetatively propagated ornamental varieties (documents invited)
 - Assessing ornamental crops using individual plant measurements (MS) (document to be provided by Germany, New Zealand and the United Kingdom and documents invited)
 - 10. Disease resistance in ornamental crops (document to be prepared by the Netherlands)
 - 11. Example varieties for asterisked quantitative characteristics when illustrations are provided (document to be prepared by Germany and the United Kingdom)
 - 12. Possible developments to enable UPOV Codes to provide information on variety groups (document to be prepared by the European Union)
 - 13. Procedures for grouping varieties using UPOV codes and relevant information sources (document to be prepared by the Netherlands)
 - 14. Providing information on similar varieties in the UPOV model variety description (document to be prepared by the European Union)
 - 15. Variety denominations (document to be prepared by the Office of the Union)
 - 16. Report on court cases dealing with technical matters (document invited)
 - 17. Experiences with new types and species (oral reports invited)
 - 18. Guidance for drafters of Test Guidelines
 - 19. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee
 - 20. Discussion on draft Test Guidelines (Subgroups)
 - 21. Recommendations on draft Test Guidelines
 - 22. Date and place of the next session
 - 23. Future program
 - 24. Adoption of the Report on the session (if time permits)
 - 25. Closing of the session

Forty-ninth session of the TWA

Report by Ms. Beate Rücker (Germany), Chairperson of the TWA

- 31. The TWA held its forty-ninth session, hosted by Canada and organized via electronic means, from June 22 to 26, 2020. In the absence of Ms. Cheryl Turnbull (United Kingdom), Chairperson of the TWA, the session was chaired by Ms. Beate Rücker (Germany). The report of the session is provided in document TWA/49/7 "Report".
- 32. The session was attended by 96 participants representing 28 members of the Union, one observer State and five observer organizations.
- 33. The TWA was welcomed by Mr. Anthony Parker, Commissioner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), who gave a presentation on plant breeders' rights in Canada.
- 34. The TWA adopted the agenda as presented in document TWA/49/1 Rev. 2. The documents, including Test Guidelines, were considered on the basis of the written comments received in advance to the session.
- 35. The TWA considered document TWP/4/10. The TWA noted that the document provided a summary of approaches developed for different testing conditions and agreed that it would not be necessary to request further information to facilitate their application at this stage.
- 36. The TWA considered document TWP/4/11 and agreed that the COYU method was frequently used in the examination of agricultural crops. The TWA thanked the experts from the United Kingdom for the improvements to the method of calculation and its implementation in a new COYU package.
- 37. The TWA considered document TWP/4/4 and noted the developments concerning alternative solutions to enable the UPOV Code to provide useful information on variety groups or types for DUS testing purposes. The TWA agreed that the introduction of a fourth element to the UPOV Code could be considered as an alternative to provide information on variety groups. The TWA agreed that the TWPs could provide the required information for the establishment of groups for the relevant crops.
- 38. The TWA considered the proposal to amend the UPOV codes for *Beta vulgaris*, as set out in document TWP/4/4, Annex II. The TWA noted that the proposal would classify different horticultural crops as synonyms under the same taxa, such as beetroot, leaf beet, turnip, turnip rape, sugar beet and fodder beet. The TWA agreed that it would not be appropriate to delete the UPOV codes proposed before a solution was provided to avoid the loss of information on variety groups.
- 39. The TWA received a presentation on "Developing a strategy to apply SNP molecular markers in the framework of winter Oilseed rape DUS testing" from an expert from France as provided in document TWA/49/5. The TWA agreed to invite France to report on developments on the project at its fiftieth session.
- 40. The TWA considered the additional characteristics notified to the Office of the Union, as reproduced in document TWP/4/13, Annex I. The TWA agreed that, at present, the additional characteristics should not be posted on the TG Drafters' webpage of the UPOV website.
- 41. The TWA considered document TWP/4/12 and noted the draft terms of reference for a possible single body to encompass the work of the TWC and BMT. The TWA expressed appreciation for the work on biometrical methods developed by the TWC and that of the BMT for the development of potential applications of molecular techniques to DUS testing. The TWA agreed these activities should be promoted and continued.
- 42. The TWA discussed ten draft Test Guidelines and agreed to submit the draft Test Guidelines for Rice (*Oryza sativa* L.) (Revision), Rye (*Secale cereale* L.) (Revision), Tea (*Camellia sinensis* (L.) Kuntze) (Revision) and Timothy (*Phleum pratense* L.; *Phleum nodosum* DC.) (Revision) to the Technical Committee for adoption.
- 43. The TWA agreed to discuss eight Test Guidelines at its fiftieth session, to be held in 2021. The TWA agreed that the Test Guidelines for Potato, Soya Bean, Sugarcane and Sunflower should be marked with an asterisk for 2021. New discussions are expected to begin on Test Guidelines for Cocksfoot (Revision) and Zoysia Grasses (New).
- 44. At the invitation of the United Republic of Tanzania, the TWA agreed to hold its fiftieth session in Arusha, United Republic of Tanzania, from June 21 to 25, 2021.

- 45. The TWA proposed to discuss the following items at its next session:
 - 1. Opening of the Session
 - Adoption of the agenda
 - 3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers (written reports to be prepared by members and observers)
 - (b) Report on developments within UPOV (oral report by the Office of the Union)
 - Molecular Techniques (document to be prepared by the Office of the Union)
 - (c) Developments in UPOV (document to be prepared by the Office of the Union)
 - (d) Presentation on the use of molecular techniques in DUS examination (presentations by Argentina, France and presentations invited from members of the Union)
 - 5. TGP and INF series documents (documents to be prepared by the Office of the Union)
 - 6. Variety denominations (document to be prepared by the Office of the Union)
 - 7. Information and databases
 - (a) UPOV information databases (document to be prepared by the Office of the Union)
 - (b) Variety description databases (document to be prepared by the Office of the Union and documents invited)
 - (c) Exchange and use of software and equipment (document to be prepared by the Office of the Union and documents invited)
 - (d) UPOV PRISMA (document to be prepared by the Office of the Union)
 - New technology used in DUS examination (documents to be prepared by Argentina, Denmark, ISF and documents invited)
 - 9. Examining hybrid varieties (document to be prepared by United Kingdom and documents invited)
 - 10. International cooperation in examination
 - 11. Experiences with new types and species (oral reports invited)
 - 12. Revision of Test Guidelines (document to be prepared by the Office of the Union)
 - 13. Guidance for drafters of Test Guidelines
 - Discussion on draft Test Guidelines (Subgroups)
 - 15. Recommendations on draft Test Guidelines
 - 16. Date and place of the next session
 - 17. Future program
 - 18. Adoption of the Report on the session (if time permits)
 - 19. Closing of the session

Fifty-first session of the TWF

Report by Mr. Jean Maison (European Union), Chairperson of the TWF

- 46. The TWF held its fifty-first session, hosted by France and organized by electronic means, from July 6 to 10, 2020, under the chairmanship of Mr. Jean Maison (European Union). The report of the session is provided in document TWF/51/10 "Report".
- 47. The session was attended by 101 participants representing 26 members of the Union and one observer organization.
- 48. The TWF was welcomed by Mr. Laurent Jacquiau, Head, Office of seeds and integrated crop protection, Division for quality, health and plant protection, General Directorate for Food, Ministry of Agriculture and Food. Mr. Jacquiau gave a presentation on the "Regulatory framework and situation of the fruit reproductive material sector in France".
- 49. The TWF received a presentation by Mr. Fabien Masson, Head, Variety Study Department (SEV), and Ms. Carole Dirwimmer, Head of Fruits DUS testing, *Groupe d'étude et de contrôle des variétés et des semences* (GEVES), on "GEVES Presentation and focus on Fruits DUS testing".
- 50. The TWF agreed to propose that meetings via electronic means were considered for advancing discussions on Test Guidelines during the period between TWPs sessions.

- 51. The TWF noted that characteristics assessed on the basis of measurement of a number of individual plants or parts of plants (MS) were being included in Test Guidelines and agreed to invite members to report on the approaches used to convert observations to notes, at its fifty-second session.
- 52. The TWF invited the experts from the European Union, Italy and New Zealand, at its fifty-second session to share their experiences on policies and/or model letters/contracts used for the submission of plant material to their authority and/or DUS examination offices. This information could be used as a basis for possible future possible revisions of UPOV Guidance (e.g. TGP/5, Section 11 "Examples of Policies and Contracts for Material Submitted by the Breeder") to help other UPOV members to facilitate access to plant material for the purpose of management of variety collections and DUS examination.
- 53. The TWF recalled the importance of exchanging information among PVP offices about applications received, especially for apple mutation groups where similar varieties might be submitted in various countries. The TWF agreed that the expert from the European Union should continue to coordinate the exchange of information among authorities involved in DUS testing for apple requesting information on 'Gala', 'Fuji' types, and to include 'Cripps Pink', 'Jonagold' and 'Elstar'. Requests should also be made to breeders on possible synonyms and trademarks.
- 54. The TWF discussed 11 draft Test Guidelines and agreed to submit the draft Test Guidelines for Common Sea Buckthorn (Partial revision), Pistachio and Physic Nut to the Technical Committee for adoption.
- 55. The TWF agreed to discuss the draft Test Guidelines for Apple (fruit varieties), Apricot, Argania, Date Palm, Grapevine, Guava, Goji, Hazelnut, Lemon (Partial revision), Mandarin (Partial revision), Mulberry, Raspberry, Sour Cherry/Duke Cherry, Strawberry, Sweet Cherry and Trifoliate Orange (Partial revision) at its fifty-second session.
- 56. At the invitation of China, the TWF agreed to hold its fifty-second session in Zhengzhou, China, from July 12 to 16, 2021.
- 57. The TWF proposed to discuss the following items at its fifty-second session:
 - 1. Opening of the Session
 - 2. Adoption of the agenda
 - 3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers (written reports to be prepared by members and
 - (b) Reports on developments within UPOV (oral report by the Office of the Union)
 - 4. Molecular Techniques (document to be prepared by the Office of the Union)
 - (e) Developments in UPOV (document to be prepared by the Office of the Union)
 - (f) Presentation on the use of molecular techniques in DUS examination (presentations invited from members of the Union)
 - 5. TGP documents (documents to be prepared by the Office of the Union)
 - 6. Variety denominations (document to be prepared by the Office of the Union)
 - 7. Information and databases
 - (a) UPOV information databases (documents to be prepared by the Office of the Union)
 - (b) Variety description databases (documents to be prepared by the Office of the Union)
 - (c) Exchange and use of software and equipment (document to be prepared by the Office of the Union)
 - (d) UPOV PRISMA (document to be prepared by the Office of the Union)
 - 8. Experiences with new types and species (oral reports invited)
 - Access to plant material for the purpose of management of variety collections and DUS examination (presentations invited from European Union, Italy, New Zealand and others presentations invited from members of the Union)
 - 10. DUS examination of mutant varieties of apple (document to be prepared by the European Union)
 - 11. Matters relevant in DUS examination for the fruit sector (presentations invited from members and observers)
 - 12. International cooperation on examination (document to be prepared by the Office of the Union and presentations invited from Canada and other members of the Union)
 - 13. Assessing characteristics on the basis of measurements of individual plants or parts of plants for small samples (document to be prepared by the Office of the Union and presentations invited from France and other members of the Union)
 - 14. Guidance for drafters of Test Guidelines

- 15. Matters to be resolved concerning Test Guidelines put forward for adoption by the Technical Committee (if appropriate)
- 16. Discussion on draft Test Guidelines (Subgroups)
- 17. Recommendations on draft Test Guidelines
- 18. Date and place of the next session
- 19. Future program
- 20. Adoption of the Report of the session (if time permits)
- 21. Closing of the session

Thirty-eighth session of the Technical Working Party on Automation and Computer Programs (TWC)

- 58. The TWC held its thirty-eighth session, hosted by the United States of America and organized by electronic means, from September 21 to 23, 2020. In the absence of Mr. Christophe Chevalier (France), Chairperson of the TWC, the session was opened by Mr. Nik Hulse (Australia), Chairperson of the TC and the session was chaired by Ms. Beate Rücker (Germany), Vice-Chairperson of the TC. The report of the session is provided in document TWC/38/11 "Report".
- 59. The session was attended by 44 participants representing 19 members of the Union, one observer State and one observer organization.
- 60. The TWC was welcomed by Ms. Ruihong Guo, Deputy Administrator, AMS, Science & Technology Program, United States Department of Agriculture (USDA) and received a presentation on Plant Variety Protection in the United States of America from Mr. Jeffery Haynes, Commissioner, Plant Variety Protection Office, USDA.
- 61. The TWC adopted the agenda as reproduced in document TWC/38/1 Rev.. The documents were considered on the basis of the written comments received in advance to the session.
- 62. The TWC considered documents TWP/4/10 and TWC/38/5 on international cooperation in examination. The TWC agreed that the information provided in document TWP/4/10 did not provide sufficient information to explain the situations when each method would and would not be suitable. The TWC agreed there were complex circumstances influencing the choice of method to be used for converting observations into notes and agreed to propose that the development of guidance be discontinued.
- 63. The TWC considered documents TWP/4/11 and TWC/38/6 on the Combined Over Years Uniformity Criterion (COYU). The TWC agreed that document TGP/8 should include two sections on the COYU criterion: one for the superseded version (moving average); and another for the improved method (splines). The TWC agreed that both sections were required for providing guidance to users of the different versions of the method.
- 64. The TWC agreed amendments to the draft guidance in Annex I to document TWC/38/6 as presented in paragraph 22 and 23 of document TWC/38/11 "Report". The TWC agreed that, once incorporated the amendments, the draft guidance should be proposed to the TC for inclusion in a future revision of document TGP/8.
- 65. The TWC received a presentation on "A statistical analysis software DUSCEL 2.0" from an expert from China, a copy of which is provided in document TWC/38/9. The TWC noted the developments on the software and that a user's manual would be prepared. The TWC agreed that interested experts should contact China for a demonstration session. The TWC noted the offer from China for the future inclusion of software DUSCEL 2.0 in document UPOV/INF/16 "Exchangeable software."
- 66. The TWC considered document TWC/38/8 Rev. "A common data set for comparison of software for COYD and COYU". The TWC thanked the experts from the United Kingdom for providing a common data set to allow comparisons of software for both COYD and COYU, as provided in an Excel file on the TWC/38 website. The TWC agreed to invite participants to carry out COYD and COYU tests using the three-years' data provided by the United Kingdom with probability levels of 0.01 for COYD and 0.001 for COYU (or 0.003 in case of the new version of COYU). The TWC noted the expressions of interest to participate in the comparison of software by the experts from China, France, Kenya and the United Kingdom. The TWC agreed to invite the expert from France to coordinate the comparison of software and report to the TWC, at its thirty-ninth session.
- 67. The TWC considered document TWP/4/12 "Organization of work of the TWC and BMT". The TWC agreed that the merger of the TWC and BMT would be an opportunity to address the topics of common interest

to both groups. The TWC noted the range of elements covered in the draft terms of reference and agreed to caution against the reduction of depth in technical discussions. The TWC agreed that the new body should maintain the level of relevance on discussions to avoid reducing the interest for experts to participate. The TWC agreed that new ways of conducting meetings could be considered to facilitate attendance by experts from different disciplines. This might incorporate the possibility to participate by remote means and creating working groups for specific topics. The TWC agreed to propose a regular review of the creation of a single body to encompass the work of the TWC and BMT to address any issues accruing from the merger.

- 68. At the invitation of the United States of America, the TWC agreed to hold its thirty-ninth session in Alexandria, Virginia, jointly with the BMT, during the week of September 20, 2021.
- 69. The TWC proposed to discuss the following items at its next session:
 - 1. Opening of the Session
 - 2. Adoption of the agenda
 - 3. Short reports on developments in plant variety protection:
 - (a) Reports from members and observers (written reports to be prepared by members and observers)
 - (b) Report on developments within UPOV (oral report by the Office of the Union)
 - 4. Tools and methods for DUS examination (documents invited)
 - (a) Comparison of results obtained for COYD and COYU procedures using different software (document to be prepared by France)
 - (b) Development of software for the improved COYU method (splines) (document to be prepared by the United Kingdom)
 - 5. Phenotyping and image analysis (documents invited)
 - 6. Consideration of genotype by environment interaction and its impact in DUS testing (document to be prepared by Finland and Italy and documents invited)
 - 7. Development of guidance and information materials (documents to be prepared by the Office of the Union)
 - 8. Exchange and use of software and equipment (documents invited)
 - 9. Information and databases (documents invited)
 - (a) UPOV information databases (document to be prepared by the Office of the Union)
 - (b) Variety description databases (document to be prepared by the Office of the Union and documents invited)
 - (c) UPOV PRISMA (document to be prepared by the Office of the Union)
 - Molecular Techniques and bioinformatics (document to be prepared by the Office of the Union and documents invited)
 - 11. Date and place of the next session
 - 12. Future program
 - 13. Adoption of the Report on the session (if time permits)
 - 14. Closing of the session

Nineteenth session of The Working Group on Biochemical and Molecular Techniques and DNA-Profiling in Particular (BMT)

Report by Mr. Nik Hulse (Australia), Chairperson of the BMT

- 70. The BMT held its nineteenth session, hosted by the United States of America and organized by electronic means, from September 23 to 25, 2020. The session was opened by Mr. Nik Hulse (Australia), Chairperson of the BMT. The BMT was co-chaired by Ms. Beate Rücker (Germany), Vice-Chairperson of the Technical Committee. The report of the session is provided in document BMT/15 Corr. "Report".
- 71. The session was attended by 119 participants from 26 members of the Union, two observer States and nine observer organizations.
- 72. The BMT was welcomed by Ms. Ruihong Guo, Deputy Administrator, AMS, Science & Technology Program, United States Department of Agriculture (USDA) and received a presentation on Plant Variety Protection in the United States of America from Mr. Jeffery Haynes, Commissioner, Plant Variety Protection Office, USDA. A copy of the presentation is provided in Annex II to this report.
- 73. The BMT adopted the agenda as reproduced in document BMT/19/1 Rev.. The documents were considered on the basis of the written comments received in advance to the session.

- 74. The BMT received the following presentations on the use of molecular techniques in relation to DUS examination:
 - "vmDUS: Value-molecular linked distinctness determination"
 - "CPVO report on IMODDUS: Update on R&D projects"
 - "Developing a strategy to apply SNP molecular markers in the framework of winter oilseed rape DUS testing"
 - "French strategy for access to molecular data and proof of concept for combining phenotype and genotype"
- 75. The BMT considered documents BMT/19/3 Rev. and UPOV/INF/17/2 Draft 3 and agreed that the draft guidance presented in Annex III of the Report should be proposed to the Technical Committee as the basis for a future revision of document UPOV/INF/17, subject to incorporating the amendments indicated in the text.
- 76. The BMT received the following presentations in relation to confidentiality, ownership and access to molecular data:
 - "Access to reference material and molecular data from CPVO Examination Offices"
 - "Survey on confidentiality and ownership of molecular information"
- 77. The BMT considered document BMT/19/10 and noted that the TWPs and BMT, at their sessions in 2019, had formed discussion groups to allow participants to exchange information on their work on biochemical and molecular techniques and explore areas for cooperation. The BMT noted the outcomes of discussions at the TWPs and BMT on facilitating cooperation in relation to the use of molecular techniques. The participants at the nineteenth session of the BMT were invited to report on their work on biochemical and molecular techniques and to explore areas for cooperation.
- 78. The BMT considered document BMT/19/7 and agreed with the TWC that the merger of the TWC and BMT would be an opportunity to address the topics of common interest to both groups. The BMT noted the range of elements covered in the draft terms of reference and agreed with the TWC to caution against the reduction of depth in technical discussions. The BMT agreed with the TWC that the new body should maintain the level of relevance on discussions to avoid reducing the interest for experts to participate. The BMT agreed with the TWC that new ways of conducting meetings could be considered to facilitate attendance by experts from different disciplines. This might incorporate the possibility to participate by remote means and creating working groups for specific topics. The BMT agreed that the frequency of the meetings should be a consideration. The BMT agreed with the TWC to propose a regular review of the creation of a single body to encompass the work of the TWC and BMT to address any issues accruing from the merger.
- 79. The BMT considered documents BMT/19/3 Rev. "Review of document UPOV/INF/17 "Guidelines for DNA-Profiling: Molecular Marker Selection and Database Construction" and UPOV/INF/17/2 Draft 3. The BMT agreed that the draft guidance presented in Annex III to document BMT/19/15 "Report" should be proposed to the Technical Committee as the basis for a future revision of document UPOV/INF/17, subject to incorporating the amendments indicated in the text.
- 80. At the invitation of the United States of America, the BMT agreed to hold its twentieth session in Alexandria, Virginia, jointly with the TWC, during the week of September 20, 2021.
- 81. During its twentieth session, the BMT planned to discuss the following items:
 - Opening of the session
 - 2. Adoption of the agenda
 - 3. Reports on developments in UPOV concerning biochemical and molecular techniques (document to be prepared by the Office of the Union)
 - Short presentations on new developments in biochemical and molecular techniques by DUS experts, biochemical and molecular specialists, plant breeders and relevant international organizations (reports by participants)
 - 5. Report of work on molecular techniques in relation to DUS examination (papers invited)
 - Variety description databases including databases containing molecular data (papers invited)
 - 7. Methods for analysis of molecular data, management of databases and exchange of data and material (papers invited)

- 8. The use of molecular techniques in examining essential derivation² (papers invited)
- 9. The use of molecular techniques in variety identification* (papers invited)
- 10. Cooperation between international organizations (document to be prepared by the Office of the Union)
- 11. Confidentiality, ownership and access to molecular data, including model agreement template* (papers invited)
- 12. Session to facilitate cooperation
- 13. Date and place of next session
- 14. Future program
- 15. Report of the session (if time permits)
- 16. Closing of the session

[Annex III follows]

-

² Breeders' Day

TC/56/23

ANNEX III

AMENDMENTS TO THE DRAFT TEST GUIDELINES

Test Guidelines adopted by correspondence

Revisions

| | TG/121/4(proj.3) | Mr. Tanvir Hossain (AU) | | |
|---------------------------|-------------------|---|-----|--|
| (X I riticosecaie vvitt.) | No. of chars.: 24 | (Interested experts: AR, AT, BR, CA, CZ, DE, DK, ES, FR, GB, HU, IT, KE, KR, NL, NZ, PL, QZ, RO, SK, CLI, Euroseeds, ISF) | TWA | |

The TC-EDC, at its meeting held in Geneva, on March 24, 2020, considered document TG/121/4(proj.3) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Triticale be circulated to the TC for adoption by correspondence.

| 2.3 | last paragraph to read "The ears should" |
|----------|---|
| 3.1.2 | to be deleted (only applicable for perennial crops) |
| 4.2.8 | " exception of characteristics 1 and 2" |
| Char. 12 | to read "Stem: density of hairs on neck" |
| Char. 18 | to read "Lower glume: hairs on external surface" |

| | | Mr. Wonsig Lee/ Mr. Kwanghong Lee (KR) | | |
|---------|--|---|-----|--|
| \ 3 3 3 | No. of chars.: 29 No. of (*) chars.: 16 | (Interested experts: JP, ISF) | TWA | |

The TC-EDC, at its meeting held in Geneva, on March 24, 2020, considered document TG/224/2(proj.4) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Ginseng be circulated to the TC for adoption by correspondence.

| Table of | to sort characteristics by growth stages |
|-----------------|---|
| Chars. | |
| Chars. 5, 8 | to have scale of notes from "absent or very light" to "very dark" (intensity) |
| Char. 6 | state 2 to read "on lower and upper part only" |
| Char. 9 | to be moved before Characteristic 7 |
| Chars. 19 to 22 | to be moved after char. 1 according to growth stage |
| Char. 22 | to read "Time of berry maturity" |
| 8.1 (a) | to delete "among stems" |
| 8.1 (c) | " compound leaves." |
| Ad. 4 | to read "Measurements should be made on the broadest part of the stem, usually 2-3 cm |
| | from soil." |
| Ad. 11 | to remove reference to "b" and "c". They are not used. |
| Ad. 19 | to read "Beginning of flowering is reached when" |
| Ad. 22 | to read "Time of berry maturity is reached when" |
| Ad. 26 | to remove "c = Lateral root". It is not used anywhere |
| 8.3 | to read "8.3 Growth stages" |
| 9. | to remove the space before "C" in the reference to "Victoria B.C." |

| Portulaca | TG/242/4(proj.3) | Ms. Andrea Menne (DE) | | |
|-------------------------|------------------|--------------------------------------|-----|--|
| l Poπulaca oleracea L.: | | (Interested experts: JP, MX, NL, QZ) | TWO | |

The TC-EDC, at its meeting held in Geneva, in October 2019, considered document TG/242/4(proj.2) and made the recommendations presented in the table below.

| Char. 12 | to delete (b) |
|----------------|---|
| #Chars. 9, 14, | to add example varieties for Characteristics 9, 14 and 23) (see document TGP/7 (GN 28)) |
| 23 | (for Characteristics 9 and 14 the ones illustrating the states in Ad. 9 and 14 could be used) |
| | provided by Leading Expert |
| Char. 24 | to delete "Only varieties with" |
| 8.1 (a) | to read "Observations should be made on the upper side of fully developed leaves from the |
| | middle part of a plant." |
| 8.1 (b) | to read "Observations should be made on the inner side of a fully open flower." |
| 8.1 (c) | to read "Observations should be made on the inner side. Unless otherwise indicated |
| | observations on the petal of double flowers should be made on the outermost whorl of |
| | petals." |
| Ad. 19 | "In varieties with" |
| TQ | to add 1.4.1 and 1.4.2 with empty boxes (e.g. to indicate interspecific hybrids) |

The TC-EDC agreed there were editorial clarifications required (indicated above by "#") on the draft Test Guidelines for Portulaca (document TG/242/4(proj.2)) and agreed to reconsider the draft Test Guidelines at its meeting to be held in March 2020.

The items in the list above have been implemented in document TG/242/4(proj.3).

The TC-EDC, at its meeting held in Geneva, on March 24, 2020, considered document TG/224/2(proj.3) and the editorial clarifications previously required (indicated above by "#"). The TC-EDC agreed with the information provided by the Leading Expert and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Portulaca be circulated to the TC for adoption by correspondence.

| 4.2.4 | " for seed-propagated varieties should" |
|----------|---|
| Char. 25 | to delete "Only varieties with" (as for Char. 24) |
| Ad. 25 | to add full stop after "See Ad. 24" |

Test Guidelines for adoption by the Technical Committee by correspondence after its fifty-sixth session

General

| 6.2.2 | to update wording (following adoption of TGP/7/8) |
|----------|--|
| Table of | to display full scale of notes for all characteristics (following adoption of TGP/7/8) |
| Chars. | |

Partial revisions

TC/56/16 Partial Revision of the Test Guidelines for Calibrachoa

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TC/56/16 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the partial revision of the Test Guidelines for Calibrachoa be circulated to the TC for adoption by correspondence.

| 0 40 | 1 |
|-----------|---|
| Char. 16 | to update Chapters 5.3, 8.2 and TQ 5 accordingly |
| I CHAL IO | T IO UDUAIE CHADIEIS J.J. O.Z AHU T.V.J. AGGOTUHUIV |
| | |

TC/56/17 Partial Revision of the Test Guidelines for Chrysanthemum

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TC/56/17 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the partial revision of the Test Guidelines for Chrysanthemum be circulated to the TC for adoption by correspondence.

| 1. | to delete second sentence "They are primarily adapted to varieties currently," |
|--------|--|
| TQ 1.3 | to read "1.3 Species or interspecific hybrid (please specify)" |

TC/56/18 Partial Revision of the Test Guidelines for Common Sea Buckthorn

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TC/56/18 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the partial revision of the Test Guidelines for Common Sea Buckthorn be circulated to the TC for adoption by correspondence.

| Ad. 21 | - first sentence to read "For female plants(the stigmas emerge from the leaf axils)." |
|--------|---|
| | - second sentence to read "For male plants when anthers release pollen. |

New Test Guidelines

| | TG/BRASS_JUN(PROJ.8), TC/56/19 | BRASS_JUN(PROJ.8), Mr. Takayuki Nishikawa (JP) | | |
|---|-----------------------------------|---|-----|---|
| (, , , , , , , , , , , , , , , , , , , | No. of chars.: 34 | (Interested experts: TWA, CA, CZ, DE, FR, KR, NL, PL, QZ, ZA, CropLife, ESA, ISF) | TWV | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered documents TG/BRASS_JUN(proj.8) and TC/56/19 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Brown Mustard be circulated to the TC for adoption by correspondence.

| 4.2.4 | to check whether to read "For the assessment of uniformity of s | elf-pollinated varieties," | |
|--------------|---|----------------------------|--|
| Char./Ad. 26 | to have the following order of states and illustrations (see TG/BRASS_JUN(proj.8) for | | |
| | original size of illustrations) | | |
| | | | |
| | 1 2 3 4 | | |
| | narrow conic broad conic rounded branched | | |
| Ad. 3 | to read "Observations should be made" | | |
| Ad. 8 | to reallocate letters to corresponded to order of characteristics | (e.g. a=8, b=9, etc.) | |
| Ads. 15, 30 | to replace "extention" with "extent" | | |
| Ad. 34 | insert comma after "Alternatively" | | |

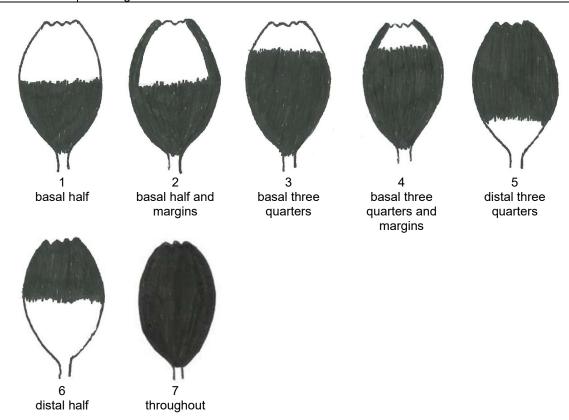
| | TG/COREO(proj.3), TC/56/20 | Mr. Peter Baker (GB) | | |
|---|-------------------------------|--|-----|---|
| (| | (Interested experts: AU, CA, DE, FR, JP, KR, MX, NZ, QZ) | TWO | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered documents TG/COREO(proj.3) and TC/56/20 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Coreopsis be circulated to the TC for adoption by correspondence.

| #Chars. 1, 8, | to add example varieties (see document TGP/7 (GN 28)) |
|-----------------|---|
| 17, 20, 24, 27, | provided by Leading; see Annex to document TC/56/20 |
| 39, 40, 41, 42 | TWO: |
| | - agreed |
| | - Char. 17: PRO358 to read PRO538 |

| #Chars. 6 to 11 | According to Ad. 5, all varieties may have both types of leaves. |
|-----------------|--|
| and 15 to 17 | Clarification necessary whether all characteristics should be described for varieties with |
| | note 1, 2 and 3 in char. 5 |
| | Leading Expert: To have an additional explanation in Chapter 8.1 labelled (c) to apply to Characteristics 6 to 11 and 15 to 17, to read: |
| | "Observations should only be made in relation to the predominant leaf type according to |
| | Characteristic 5. Where no predominance is observed for Characteristic 5, i.e. both simple |
| | and divided leaf type occur in similar amounts, observations should be made on both |
| | types of leaf." |
| | TWO agreed |
| Chars. 12 to | to be moved after char. 17 |
| 14 | TWO agreed |
| Char. 30 | "throughout" should be note 15 |
| | TWO agreed |
| Char. 32 | to be moved before char. 30 |
| | TWO: to keep it as it is as it follows standard order of characteristics |
| 8.1 (d) | first 8.1(d) to be relabeled "(b)" (type-o) |
| | TWO agreed |
| 8.1 (e) | to be replaced by the standard wording (see document TGP/14) |
| | TWO agreed |
| Ad. 5 | to read "Some varieties have both types of leaves. The predominant leaf type should be |
| | assessed. The state" |
| | TWO agreed |
| Ad. 19 | to be deleted (see VG) |
| | TWO agreed |
| Ad. 29 | Drawings to be improved. Main color should appear solid to prevent confusion with |
| | drawings for char. 30 and 32. |
| | TWO agreed |

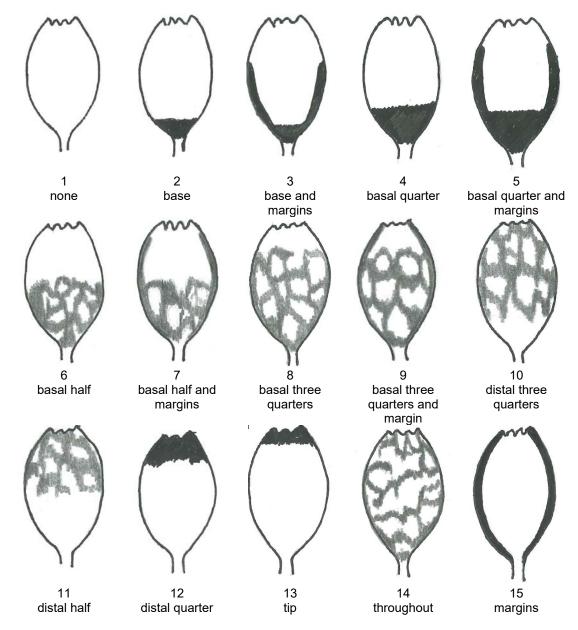


TC/56/23 Annex III, page 6

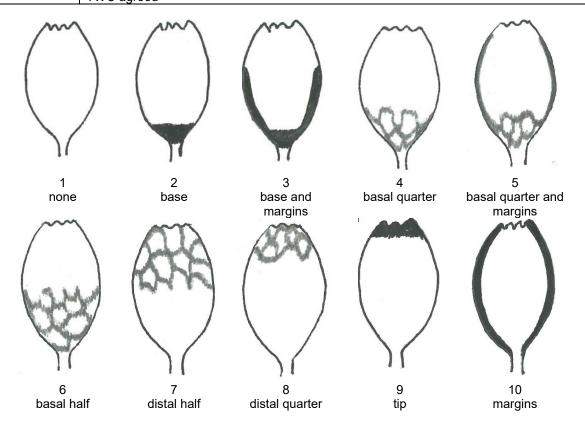
#Ad. 30

- to add explanation clarifying how secondary color can occupy more than 50% of surface (to check whether to read "If the secondary color is not solid, it may be distributed on more than half of the ray floret and the total area is still less than the main color.")
- Drawings to be improved. Secondary color should <u>not</u> appear solid for state 6 to 11 and 14 to prevent confusion with drawings for char. 30.

Leading Expert: agreed with proposed wording for Ad. 30 and provided new illustrations TWO agreed



| #Ad. 33 | - to check whether to read "If the tertiary color is not solid, it may be distributed in up to |
|---------|--|
| | half of the ray floret and the total area is still less than the secondary color." |
| | - Drawings to be improved. Secondary color should <u>not</u> appear solid for state 4 to 8 to |
| | prevent confusion with drawings for char. 30 and 32. |
| | Leading Expert: agreed with proposed wording for Ad. 33 and provided new illustrations |
| | TWO agreed |



| | TG/JATRO_CUR(PROJ.4) | Mr. Alejandro Barrientos- Priego (MX) | | |
|--|--|--|-----|---|
| Physic Nut (<i>Jatropha curcas</i> L.) | No. of chars.: 30 No. of (*) chars.: 10 | (Interested experts: BR, IL, QZ) | TWF | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/JATRO_CUR(proj.4) and made the recommendations presented in the table below.

The TC-EDC agreed there were editorial clarifications required (indicated below by "#") on the draft Test Guidelines for Physic Nut and agreed to reconsider the draft Test Guidelines at its meeting to be held in March 2021.

| Cover page | - French main common name to read "Jatropha" - to add "Pourghère", "Noix des Barbades" as alternative French names | |
|-----------------|---|--|
| | | |
| Header, p. 2 to | remove additional space to read "Nut, 2020" | |
| 7 | , | |
| #4.2.2 | "These Test Guidelines have been developed for the examination of vegetatively and | |
| | cross-pollinated seed-propagated varieties" | |
| #Char. 1 | to add explanation on the stage of development of the leaf blade | |
| Char. 3 | - to be moved before characteristic 1 | |
| | - state 2 to read "semi-upright" | |

| #Char. 6 | - to check w | hether to crop pictures t hether to add explanat | ounded" and "straight" 2 to only show base of leaf tion "Observations should b | pe made on the base of the |
|--------------|---|---|--|------------------------------|
| Char. 7 | to read "Leaf blade: serration on margin" | | | |
| #Char./Ad. 9 | to provide be | etter illustration for state become the states of the | 3 or add an explanation; | alternatively, the number of |
| Char. 12 | - to read "Pla | | | |
| | - state 2 to r | ead "female" | | |
| Char.19 | | after characteristic 22 | | |
| Char. 24 | to be moved | after characteristic 27 | | |
| Char. 24/Ad. | - to rotate illu | ustrations in order to ha | ve base at bottom: | |
| 24 | - to have sta | tes elliptic (1), oblong (2 | 2), obovate (3) and have gr | id as below |
| | | ← broa | dest part → | 7 |
| | relative width | at middle | above middle | _ |
| | narrow | 2 oblong | | |
| | medium | 1 allintic | 3 | |
| | | elliptic | obovate | |
| 8.1 | | ons to read "Observation | | |
| 8.1 (a) | middle third | of the current's season' | s shoot." | ature leaves taken from the |
| 8.1 (d) | "Observation | "Observations should be made on fruits taken from the middle part of the fruiting area of the plant at the time of fruit ripening." | | |
| Ad. 25 | | to rotate illustration by 180 degrees (as in Ad. 24/ to have base at bottom) | | |

| | TG/PISTA(PROJ.5) | Ms. Urszula Braun-Mlodecka (QZ) | | |
|---|------------------|--|-----|---|
| (* ************************************ | | (Interested experts: AU, ES, IT, KE, MX, ZA) | TWF | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/PISTA(proj.5) and made the recommendations presented in the table below.

The TC-EDC agreed there were editorial clarifications required (indicated below by "#") on the draft Test Guidelines for Pistachio and agreed to reconsider the draft Test Guidelines at its meeting to be held in March 2021.

| 1.2 | to be deleted |
|-------------|--|
| 3.1.1 | to be deleted |
| 3.1.2 | - to combine both sentences into one single paragraph |
| | - to add a comma: "For female varieties, the minimum" |
| 3.1.3 | to add a comma: "For male varieties, the minimum" |
| #Char. 1 | In 8.1 (d) and 8.1 (e), there is an indication of "hermaphrodite varieties"; however, this is not an option in Char 1. Should there be a Note 3 female and male? If there is a change here, what would be the number of growing cycles required for 'hermaphrodite varieties' (see 3.1.2 and 3.1.3)? |
| #Char. 3 | - to check whether to be indicated as QN |
| | - to add illustrations (do standard illustrations from TGP/14 apply) |
| Char. 8 | state 2 to read "6 to 10" |
| #Char. 15 | to check example variety for state 2 (male variety for female inflorescence characteristic) |
| #Char. 24 | - to change order of states to "ovate (1), narrow elliptic (2), broad elliptic (2)" - provide example variety for state 2 or add illustrations |
| #8.1 (d) | to check whether to be deleted (is "fully grown" needed (see satisfactory crop in 3.1)?; for male plants, reference is made to the age of female or hermaphrodite trees) to check whether to replace "full grown trees" with "mature trees"; other observations also to be done on fully grown trees, not just (d) and (e) |
| #8.1 (e) | to check whether to delete first sentence (same wording as (d), see comment on 8.1 (d)) |
| 8.1 (f) | to add indication of fruit to the illustration |
| Ads. 13, 14 | to make all images the same size. |
| Ad. 17 | - to delete comma before full stop at state 3 |
| | - replace "excercising" with "applying" |
| #Ad. 36 | to check whether to read " when 25% of flower buds are open" |
| Ad. 37 | to read "The time of harvest maturity is reached when 50% of fruits are mature." |
| TQ 1.2 | to remove "Pistache" |
| TQ 1.3 | to be deleted |
| TQ 7.3 | - to add "7.3.1" to the paragraph relating to photographs - last paragraph to read "7.3.2 In the case of frost or chilling hour requirements for the correct development of plant material of the candidate variety in the DUS trial field, please specify:" (Font size to be reduced)." |

| | TG/RANUN(PROJ.4) | Mr. Satoshi Fujisako (JP) | | |
|-----------------|------------------|---|-----|---|
| (Ranunculus L.) | | (Interested experts: DE, DK, KR, QZ, CIOPORA) | TWO | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/RANUN(proj.4) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Ranunculus be circulated to the TC for adoption by correspondence.

| 5.3 (g) | to remove additional space between the words "secondary" and "color"? |
|---------|---|
| | |

| 1. | to delete "and hybrids between these species." and add UPOV code RANUN_ACO (Hybrids between Ranunculus asiaticus L. and Ranunculus cortusifolius Willd.) |
|----------------|--|
| Table of | to check capitalization of example varieties (abairesekui, abavesca, abizanagi, abperkons, |
| Chars. | LEMONTEMARI) |
| Chars. 2 to 11 | to remove underlining |
| 8.1 (a) to (d) | to read "Observations should be made" |
| 8.1 (b) | to add hyphen to "Semi-double" |
| 8.1 (d) | to read "Observations should be made just before the anthers open." |
| Ads. 1, 14 | to read "Observations should be made" |
| Ads. 2, 6 | to read "Observations should be made on the predominant leaf type." |
| Ad. 16 | label "b" to read "Flower: height" (see Ad. 17; no characteristic for flower length) |
| Ad 24 | to slightly reduce the shaded area (currently looks like covering more than 50%) |

Revisions

| | TG/5/8(proj.5), TC/56/21 | Mr. Donovan Sonnenberg (ZA) | | |
|---|--|---|-----|---|
| (| No. of chars.: 19 No. of (*) chars.: 11 | (Interested experts: BR, CA, AR, AU, BR, CA, CZ, DE, DK, ES, FI, FR, GB, IT, JP, NZ, PL, QZ, RO, SK, TZ, UY, ZA, CLI, Euroseeds, ISF) | TWA | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered documents TG/5/8(proj.5) and TC/56/21 and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Red Clover be circulated to the TC for adoption by correspondence.

| 3.3 | to add ASW 4 (a) Stage of development for the assessment |
|---------------------|---|
| 3.4 | to read "Each test should be designed to result in a total of at least" |
| Char. 9 | to read "Leaf: conspicuousness of marking" |
| Chars. 13 and 14 | to read "middle leaflet" |
| #Ad. 8 | - to check whether the timing of assessment can be explained more precisely (When has full expression occurred? When vegetation has stopped?) (check how this characteristic is explained in similar crops) Leading Expert: proposed to read "The number of plants showing inflorescences should be recorded for each variety. To be assessed at one occasion on the whole trial when the development stagnates before vernalization." |
| Ad. 9 | to read "The characteristic leaf marking refers to the conspicuousness of leaf marking." |
| Ad. 12 | to read "middle leaflet" |
| #Ad. 16 | to check whether to read "Stem length should be measured from the base of plant to the base of terminal inflorescence." (where is the end point of measurement?) Leading Expert: agreed |
| #Ad. 17 | to improve wording by explaining where the tillering node is situated Leading Expert: There is only one tillering node. Therefore it should be clear to say "the tillering node" and to read "Stem thickness should be measured 2 to 4 cm above the tillering node." |
| Ad. 17 | to read "Stem thickness should be" |
| 8.3 | growth stages to read "Principal" (not "principle") |

| | TG/16/9(PROJ.5) | Mr. Kohei Imamura (JP) | | |
|---------------------|-----------------------|---|-----|---|
| I (Orvza sativa L.) | No. of (*) chars.: 22 | (Interested experts: AR, AU, BR, CN, ES, FR, HU, IT, KE, KR, MX, QZ, TZ, US, UY, CLI, Euroseeds, ISF) | TWA | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/16/9(proj.5) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Rice be circulated to the TC for adoption by correspondence.

| 3.1.2 | to be deleted |
|-----------------|--|
| 3.4.1 | to replace "sowed" with "sown". |
| 3.4.2 | to replace "plantlets" with "plants" |
| 4.2.6 to 4.2.10 | to read "4.2.6 For the assessment of uniformity of lines, a population standard of 0.1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 1500 plants, 4 off-types are allowed. In the case of a sample size of 400 plants, 2 off-types are allowed. |
| | "4.2.7 For the assessment of uniformity in a sample size of 100 panicle rows, plants or parts, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 100 panicle rows, plants or parts of plants, 3 off-types are allowed. A panicle row is considered to be an off-type if there is more than one off-type plant within that panicle row. |
| | "4.2.8 For "A" characteristics, the assessment of uniformity can be done in 2 steps. In a first step, 20 panicle rows, plants or parts of plants are observed. If no off-types are observed, the variety is considered to be uniform. If more than 3 off-types are observed, the variety is considered not to be uniform. If 1 to 3 off-types are observed, an additional sample of 80 panicle rows, plants or parts of plants must be observed. |
| | "4.2.9 For the assessment of uniformity of hybrid varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 1500 plants, 22 off-types are allowed. In case of sample size of 400 plants, 8 off-types is allowed." |
| 6.5 | to add sample sizes A and B to legend (see 4.2.5) |
| Char. 9 | to have states "absent or very sparse, sparse, medium, dense, very dense" |
| Char. 15 | to have states "absent or sparse, medium, dense" |
| Char. 38 | to read "1000 seed weight" (German: Tausendkorngewicht) |
| Ad. 1 | - to remove spaces prior to "%" - to read: "stained reddish purple", "stained reddish blue purple" and "stained blue purple" - "12" to read "12" (with the 2 as subscript) |
| Ad. 17 | to read "Measurements should be made from the base of the plant to the base of the panicle" |
| Ad. 35 | remove the two commas |
| Ad. 41 | to read "<1.50" and ">2.50" (no spaces) |
| Ad. 43 | to read: "Observations should be made on unbroken grains. Place grains in a petri dish with 1.5% solution of KOH, keep still and at a temperature of around 25°C for approximately 24 hours." remove "milled" to read "2 – weak: Only the margins of the grains are dissolved" |
| Ad. 44 | to read: "popcorn" |
| 8.3 | to remove additional space to read: "32 2 nd node detectable" |
| წ. 3 | to remove additional space to read: "32 Z" node detectable" |

| | TG/34/7(PROJ.3) | Mr. Lubomir Basta (SK) | | |
|----------|----------------------|--|-----|---|
| <u> </u> | No. of (*) chars · 7 | (Interested experts: CA, CZ, DE, FI, FR, IT, JP, NL, NZ, QZ, Euroseeds, ISF) | TWA | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/34/7(proj.3) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Timothy be circulated to the TC for adoption by correspondence.

| 3.4.1, 3.4.2 | to read "result in a total of at least" |
|--------------|---|
| 5.3 | to remove additional space to read: "Stem: length (characteristic 13)" |
| 6.5 | to format additional legend items in line with standard legend items |
| 8.1 (c) | to be deleted (covered by growth stage) |
| Ad. 9 | to read "single plant data, a mean" |
| Ad. 13 | to read "Observation should be made on the longest stem and include the inflorescence." |
| 8.3 | to remove the space before "%" |

| | TG/58/7(PROJ.3) | Ms. Beate Rücker (DE) | | |
|---------------------|--|---|-----|---|
| (Secale cereale L.) | No. of chars.: 21 No. of (*) chars.: 13 | (Interested experts: AU, BR, CA, CZ, DK, ES, FI, FR, GB, IT, KR, NZ, PL, QZ, SK, ZA, CLI, Euroseeds, ISF) | TWA | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/58/7(proj.3) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Rye be circulated to the TC for adoption by correspondence.

| 4.2.2 | "For varieties with other types of propagation, the" |
|----------|---|
| | Add comma after propagation. |
| 6.4 | remove reference to winter/spring example varieties (covered by 6.5) |
| 6.5 | additional legend items to be formatted in line with standard legend items |
| 3.3.3 | B to read "drilled plots" |
| 4.2.2 | to delete "(excluding single crosses from inbred lines)" |
| Char. 13 | - to read "Stem: density of hairs below ear" |
| | - to have states "absent or very sparse, sparse, medium, dense, very dense" |
| Ad. 8 | "From this data, the average time" Add comma after data. |
| TQ | to add ASW 13 (TQ for hybrid varieties) |

| | TG/95/4(PROJ.4) | Ms. Stéphanie Christien (FR) | | |
|-----------------------|--|--------------------------------------|-----|---|
| I (Lauersu derria L.) | No. of chars.: 37 No. of (*) chars.: 29 | (Interested experts: AU, JP, KR, QZ) | TWO | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/95/4(proj.4) and made the recommendations presented in the table below.

The TC-EDC agreed there were editorial clarifications required (indicated below by "#") on the draft Test Guidelines for Lagerstroemia and agreed to reconsider the draft Test Guidelines at its meeting to be held in March 2021.

| Cover page | "Crepe Myrtle" should be added as there are 2 alternative spellings for the English common |
|------------|--|
| | name |

| 3.1.1 | to be replaced with the 2 following paragraphs: |
|---------------|---|
| | "The minimum duration of tests should normally be two independent growing cycles. |
| | "The two independent growing cycles may be observed from a single planting, examined in |
| | two separate growing cycles." |
| Char. 2 | to check whether to be indicated as QN |
| Char. 4 | to check whether to delete MG |
| Char. 5 | to check whether to delete MG |
| Char. 7 | state 2 to read "on margin" |
| #Char. 10 | - to read "Leaf blade: undulation" |
| | - to check whether to reduce scale to 5 notes (According to Ad. 10 the difference between |
| | 1 and 5 does not seem to be sufficient for a difference of 9 states) |
| #Char. 17 | to check whether to read "area of anthocyanin coloration" |
| Char. 20 | state 1 to read "globose", state 2 to read "conic" |
| Chars. 24, 25 | to be moved after characteristic 28 |
| Char. 29 | to have notes 1 and 2 |
| #Char. 33 | to use the example varieties from char. 31 and 32 in 33 (at least for state "medium") |
| Char. 34 | to have states from "very light" to "very dark" |
| 8.1 (f) | to replace "darkest" with "darker" (twice) |
| 8.1 (g) | to read "Observations" |
| Ad. 12 | to delete second paragraph |
| #Ad. 20 | - to replace photograph with drawing and add one for irregular shapes |
| | - add explanation that observations should be made on the maximum dimension of the |
| | main axis |
| Ad. 23 | to be deleted |
| #Ad. 24 | to add indication where to assess length |
| Ad. 28 | to have only one photo for each state. |
| Ad. 37 | to read "The time of beginning of flowering is reached when all plants have some open |
| | flowers on approximately 10% of thyrses." |
| TQ 5.8 (ii) | to add option "Other (please indicate)" |

| | TG/133/5(PROJ.5) | Ms. Stéphanie Christien (FR) | | |
|----------------|-----------------------|--|-----|---|
| (Hvarangea L.) | No. of (*) chars : 26 | (Interested experts : AU, CA, DE, JP, KR, MX, NZ, QZ, ZA, CIOPORA) | TWO | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/133/5(proj.5) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Hydrangea be circulated to the TC for adoption by correspondence.

| Cover page | Please consider adding "Hydrangée" for the name in French |
|-------------------|--|
| 5.3 (k) | to add "with the following groups" after characteristic name |
| Char. 30 | to read "Only varieties with Inflorescence: conspicuousness of fertile flowers: medium and |
| | strong: Inflorescence: arrangement of sterile flowers" |
| Char. 33 | states 1 to 4 to read "3 and 4; only 4; 4 and 5; 5 and 6" |
| Char. 35 to 45 | to use plural: "sepals" |
| Char. 37 | - state 2 to read "weakly concave" |
| | - to add hyphen to "cross-section" |
| Char. 38 | "Only varieties with Sterile flower: number of sepals: 3 and 4 to 4 and 5: Sterile flower: |
| | overlapping of sepals" |
| Char. 46 | state "blue" to have note 6 |
| 8.1 (a), (b), (d) | to read "Observations should be made" |

| | TG/143/4(PROJ.3) | Ms. Chrystelle Jouy (FR) | | |
|----------------------|-------------------|--|-----|---|
| (Cicer arietinum L.) | No. of chars.: 20 | (Interested experts: TWA, AU, BR, CA, CN, DE, ES, IT, KR, QZ, TR, US, Euroseeds, ISF) | TWV | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/143/4(proj.3) and made the recommendations presented in the table below.

The TC-EDC agreed that, subject to agreement by the Leading Expert on the recommendations provided, the draft Test Guidelines for Chickpea be circulated to the TC for adoption by correspondence.

| 4.2.2 | to read "These Test Guidelines have been developed for the examination of self-pollinated |
|--------------|---|
| | varieties" |
| 4.2.3 | to read "For the assessment of uniformity of self-pollinated varieties" |
| Char. 1 | to read "Plant: growth habit" |
| Chars. 15 to | to add explanation that observations should be made on dry mature seed (to become 8.1(c)) |
| 19 | |
| 8.1 (b) | to read "Observations should be made when the green seeds are fully grown." |
| Ad. 6 | to be deleted |
| Ad. 7 | to be deleted |
| Ad. 13 | to be deleted |
| Ad. 14 | - to delete photograph |
| | - to read: "Percentage of pods with 2 seeds:" |
| Ad. 20 | to read "The time of seed maturity is reached when plants and seeds are fully dry." |

| | TG/238/2(PROJ.4) | Mr. Simeon Kibet Kogo (KE) | | |
|----------------------------------|------------------|--|-----|---|
| TIC amelia sinensis II a kunizea | | (Interested experts: AR, BR, CN, KR, JP, TZ, US) | TWA | * |

The TC-EDC, at its meeting, organized by electronic means, from October 20 to 22, 2020, considered document TG/238/2(proj.4) and made the recommendations presented in the table below.

The TC-EDC agreed there were editorial clarifications required EDC (indicated below by "#") on the draft Test Guidelines for Tea and agreed to reconsider the draft Test Guidelines at its meeting to be held in March 2021.

| 3.3.2 | to be deleted |
|----------------|---|
| Table of | to add explanations for "one and a bud stage" and "three and a bud stage". |
| Chars. | to dad explandation for one and a sad stage and allocally a sad stage. |
| Char. 1 | to be moved after characteristic 3 |
| Char. 7 | state 5 to be moved to after state 1 |
| Char. 8 | to read "Young shoot: density of bud pubescence" |
| #Chars. 14 and | - to be moved after char. 22 |
| 15 | - to check whether there is a difference between upper and lower side; if so, to add this |
| | information in an explanation |
| #Char. 16 | to read "Leaf: length/width ratio" with states from low to high and check whether 3 or 5 |
| | notes and review to which states example varieties belong |
| Char. 17 | to reverse order of states 1 and 3 |
| Char. 23 | to delete "full" |
| Char. 25 | to read "Sepals: anthocyanin coloration on outer side" and reordered according to TGP/7 |
| | (same for characteristics 26, 29, 31, 32, 33) |
| Char. 26 | to read "Sepals: pubescence of outer side" |
| Char. 29 | to read "Ovary: density of pubescence" |
| Char. 31 | to read "Style: length" |
| Char. 32 | to read "Style: positon of splitting" with stats 1 low, 2 medium, 3 high |
| Char. 33 | to read "Stigma: position in relation to stamens" |

| 8.1 (a) | to delete "as appropriate" |
|---------|---|
| 8.1 (c) | "Observations should be made" |
| Ad. 6 | to read "The time of beginning of "one and a bud" stage is reached when 30% of plants |
| | have shoots at the "one leaf and a bud" stage." |
| #Ad. 10 | to delete wording and add explanation or illustration on where to observe |

[End of Annex III and of document]