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Technical Panel on Diagnostic Protocols (TPDP)

**Virtual Meeting
12 and 20 April 2022**

IPPC Secretariat

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1. Opening of the Meeting

1.1 Welcome

- [1] The International Plant Protection Convention (IPPC) Secretariat (hereafter referred to as “the Secretariat”) welcomed the participants to the focused virtual meetings of the Technical Panel on Diagnostic Protocols (TPDP) to revise and recommend the draft Diagnostic Protocols (DPs) for Genus *Ceratitis* (2016-001) and general updates on 12 April and *Mononychelus tanajoa* (2018-006) on 20 April to recommend to the Standards Committee (SC) for approval for consultation period.

2. Meeting arrangements

2.1 Selection of the Chairperson

- [2] Mr Norman BARR (Animal and Plant Health Inspection Service (APHIS, USDA) was selected as Chairperson of the meetings.

2.2 Selection of the Rapporteur

- [3] Ms Yazmin RIVERA (Animal and Plant Health Inspection Service (APHIS, USDA) was selected as Rapporteur.

2.3 Adoption of the agenda

- [4] The TPDP adopted the agenda (Appendix 1).

3. Administrative matters

- [5] The IPPC Secretariat noted that Mr Álvaro SEPÚLVEDA LUQUE, Ms Liping YIN and Ms Julie PATTEMORE could not attend the meeting. The participants list is presented in Appendix 2.

4. Updates

- [6] A paper about the general updates on the other DPs in the TPDP work programme was presented by the Secretariat. The TPDP was invited to give feedback about any topic that demands a priority action. The draft DPs that were expected to have their first draft finalized to be presented to the expert consultation were highlighted and the respective discipline leads were asked to update the Secretariat on it.
- [7] The draft DPs for Citrus leprosis virus (2018-025) and Begomoviruses transmitted by *Bemisia tabaci* (2006-023) were assigned to Ms Vessela MAVRODIEVA as the new discipline lead, following the resignation of Mr Brendan RODONI. The new discipline lead was reminded that a justification to remove the draft DP cited Begomoviruses transmitted by *Bemisia tabaci* (2006-023) from the work programme is expected to be presented to the SC.
- [8] The TPDP were also reminded that the draft DP for Tephritidae: Identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028) was expected to have its scope altered, demanding a technical justification to be presented to the SC.
- [9] The discipline lead of the draft DP for *Puccinia graminis* f. sp. *tritici* UG 99 (2019-004) explained that the draft DP was not finalized because of divergences regarding the scope of the protocol, mainly on the races. She asked the Secretariat if this topic can be removed from the TPDP working programme or have the focus changed based on the information provided. The Secretariat responded that there is information from a group in FAO on this topic that explains the focus should be not only on the UG 99 strain, but the entire *Puccinia graminis*. Therefore, the Secretariat recommended an adjustment of the scope of this draft DP to include other strains (e.g. drafting a general DP and prioritizing some strains). The Secretariat mentioned that it is desirable to have an assessment from the drafting group of this protocol to see how it could be developed with a broader scope. The discipline lead noted that she try to set up a call with the experts to tentatively reach an agreement on this issue. Another possibility raised by the Secretariat was to open a call and select other authors to draft the DP. One member advised the

discipline lead to have written feedback from the drafting group to facilitate the process. He also reminded members about a document that was being drafted on the procedure for the DPs that do not have authors and that this topic could be discussed in one of the future TPDP meetings. The other discipline leads were invited to update the Secretariat on the other draft DPs by email once they have feedback from the drafting groups.

- [10] Lastly, the subjects that do not have drafting groups as well as the new topics that were recently added to the TPDP work programme were remarked by the Secretariat.
- [11] A paper on the Standard Setting Unit (SSU) updates was presented by the Secretariat. The updates included: four DPs approved by the SC in January 2021 added to the List of Topics (LOT), which had the prioritization assigned in June 2021; six new subjects recommended by the SC and adopted by the Commission on Phytosanitary Measures (CPM-16) in April 2021; a webinar on the Standard Setting Process held on 31 March; a webinar about the importance of the DPs that will take place on June at lunch time (Rome time). The Secretariat also commented on the possibility to have one face-to-face meeting in the fourth quarter of this year. One member asked to have the TPDP meeting official letter as soon as possible to initiate the required approvals from the respective governments. The TPDP noted the updates.

5. Recommendations to the SC for approval for consultation period

4.1 Revision and approval of Genus *Ceratitis* (2016-001)

- [12] The draft DP for Genus *Ceratitis* (2016-001) is in the TPDP work programme with priority 2¹. The drafting group list can be found on the IPPC website².
- [13] In November 2020, the TPDP agreed to recommend a scope change of the draft DP to the Standards Committee (SC). In May 2021, the SC agreed to reduce the scope of this DP to the diagnosis of the genus and six species.
- [14] In September 2021, the draft DP was submitted to expert consultation³. Three experts provided comments, which were reviewed and responded by the discipline lead⁴ of this DP.
- [15] In April 2022, a TPDP e-Forum⁵ was opened to review the draft DP that incorporated the major comments from the 2021 expert consultation and respective responses provided the discipline lead. The TPDP provided comments via e-Forum to be discussed at the present meeting and approved for recommending it to the SC for the consultation period (starting on 01 July 2022).
- [16] The majority of the comments provided by the TPDP through the e-Forum were editorial. One TPDP member asked about the terms in brackets in paragraph 4 (e.g. *C. (Pterandrus)*). The lead author clarified that these terms in brackets correspond to the sub-genus of the fruit flies. Another TPDP member requested to harmonize the species names of Tables 2 and 3.
- [17] One TPDP member commented about the issue on the contact points for further information and how to maintain this information updated in the DPs. He suggested that this could be a discussion point in one of the future meetings.

¹ List of topics for IPPC standards: <https://www.ippc.int/en/core-activities/standards-setting/list-topics-ippc-standards/list>

² List of IPPC DP drafting groups: <https://www.ippc.int/en/publications/2582/>

³ 2021-09 Expert consultation for DP Genus *Ceratitis*: https://www.ippc.int/en/core-activities/expert-consultation-draft-diagnostic-protocols/2021/09/2021-09_draft-dp-for-genus-ceratitis-2016-001/

⁴ Discipline lead: Ms Juliet GOLDSMITH

⁵ 2022_eTPDP_Apr_01: Review of draft DP Genus *Ceratitis* (2016-001): https://www.ippc.int/en/forum/2022_etpdp_apr_01-review-of-draft-dp-genus-ceratitis-2016-001/

[18] Regarding the figures, the lead author and the discipline lead commented that they were still working on the figures, mainly on the credits and resolution, and asked if it would be possible to submit the draft DP to the SC the way it is and insert the same figures with better quality after SC e-decision. One TPDP member asked about the figures credits and the high quantity of figures. The lead author commented that credits will be provided for each figure. The Secretariat clarified that the draft DP would be sent for editing and requested the authors to check if the figures have copyrights. It was also mentioned that all figures should be sent for the consultation period; the editor would be consulted on the possibility to arrange figures that have the same author in blocks.

[19] Lastly, the Secretariat mentioned the next steps for this draft DP.

[20] The TPDP:

- (1) *reviewed* the major comments document from the 2021 expert consultation and *revised* the draft DP for Genus *Ceratitis* (2016-001).
- (2) *approved* to recommend the draft DP to the SC for consultation period.

4.2 Revision and approval of *Mononychelus tanajoa* (2018-006)

[21] The draft diagnostic protocol (DP) for *Mononychelus tanajoa* (2018-006) is in the TPDP work programme with priority 1¹. The drafting group of this DP can be found on the IPPC website². The draft DP was submitted to expert consultation⁶ and revised by the TPDP via e-Forum⁷ in 2021. The comments from the 2021 expert consultation and TPDP e-Forum were reviewed by the discipline lead⁴, who provided responses to the major comments, revised and updated the draft DP.

[22] In April 2022, the DP was presented to the TPDP for a new revision via e-Forum⁸, to address the responses provided by the discipline lead to the major comments from the 2021 expert consultation and approval for recommending it to the SC for the consultation period (starting on 01 July 2022).

[23] Four experts provided comments through the TPDP e-Forum, mostly editorial (regarding incorrect or missing references, common and Latin names, a mention of relative humidity in paragraph 4, a mention to stem cuttings on paragraph 12, numbers in bold font for the key, among others). The suggestions were reviewed and discussed during the meeting and will be incorporated into the text.

[24] Regarding paragraph 17, one TPDP member asked if the washing and sieving methods were the best for collecting all life stages of the spider mites. Another TPDP member asked about the mention to the household detergent and the need to be more specific in an international protocol. The discipline lead will check both information.

[25] One TPDP member asked about the HCl concentration missing on paragraph 20. The discipline lead checked the information, but found only mentions to HCl or concentrated HCl in the literature. One TPDP member commented that 12M of HCl is considered as concentrated HCl. Another TPDP member suggested to the discipline lead to provide the reference which mention “concentrated HCl”. On the same paragraph, one TPDP member asked for more details about the term “longer heating time”. The discipline lead will check both information.

⁶ 2021-03 Expert consultation for DP *Mononychelus tanajoa*: https://www.ippc.int/en/core-activities/expert-consultation-draft-diagnostic-protocols/2021/03/2021-03_draft-dp-for-mononychellus-tanajoa/

⁷ 2021_eTPDP_Sep_01: Review of draft DP *Mononychelus tanajoa* (2018-006): https://www.ippc.int/en/forum/2021_etpdp_sep_01-review-of-draft-dp-mononychelus-tanajoa-2018-006/

⁸ 2022_eTPDP_Apr_02: Review of draft DP *Mononychelus tanajoa* (2018-006): https://www.ippc.int/en/forum/2022_etpdp_apr_02-review-of-draft-dp-mononychelus-tanajoa-2018-006/

- [26] The discipline lead commented that some figures numbers in blue font were new figures suggested by the TPDP in the 2021 revision.
- [27] Regarding paragraph 69, a disclaimer will be included to the mention on the kit for molecular identification.
- [28] One TPDP member suggested the inclusion of a section on the PCR control, similar to the other entomology DPs.
- [29] Two TPDP members suggested adjustments to the format of PCR sequences, according to the recently adopted protocols.
- [30] One TPDP member asked about the possibility to include a reference sequence in the section on sequence edition and analyses. Part of paragraph 68 was moved to this section to meet this suggestion. The TPDP member also asked if 97% is sufficient for identification. The lead author explained that usually within a species it is not common to have above 3% variation, but sometimes it is necessary to have the cut-off of 1%. He also said that there are no real measurements of what the error would be, but the reference cited in the section would be checked, even if it does not refer to a study of mites. The TPDP commented that these observations will probably be raised by experts during the consultation period.
- [31] The TPDP:
- (3) *revised* the draft DP *Mononychelus tanajoa* (2018-006).
 - (4) *addressed* the responses provided by the discipline lead.
 - (5) *approved* to recommend the draft DP to the Standards Committee for consultation period.

7. Any Other Business

- [32] There was no other business.

8. Close of the Meeting

- [33] Prior to closing each meeting, the Secretariat informed the TPDP of the next steps of the draft DPs revised and approved by the TPDP.
- [34] The Secretariat closed the meeting and thanked the participants for their participation.

Appendix 1: Agenda**TECHNICAL PANEL ON DIAGNOSTIC PROTOCOLS (TPDP)****12 and 20 April 2022 – Virtual Meetings****AGENDA**

Agenda Item	Document No.	Presenter
1. Opening of the Meeting		
1.1 Welcome by the IPPC Secretariat	--	CASSIN
2. Meeting Arrangements		
2.1 Selection of Chairperson	--	CASSIN
2.2 Selection of the Rapporteur	--	Chairperson
2.3 Adoption of the Agenda	01_TPDP_Tel_2022_Apr	Chairperson
3. Administrative Matters		
3.1 Participants / membership	TPDP membership list	MANGILI
3.2 Connections to Zoom and virtual meetings	Short guidelines for participants	
4. Updates		
4.1 General Updates on the other diagnostic protocols (DPs) in the TPDP work programme	04_TPDP_Tel_2022_Apr	CASSIN / ALL
4.2 Updates from the IPPC Secretariat	03_TPDP_Tel_2022_Apr	CASSIN / MANGILI
5. Recommendation to the SC for approval for consultation period		
5.1 Revision and approval of DP for Genus <i>Ceratitidis</i> (2016-001) <ul style="list-style-type: none"> · The draft DP after expert consultation · Background paper 	2016-001 <p>(presented in the TPDP eForum)</p> 02_TPDP_Tel_2022_Apr	GOLDSMITH
5.2 Revision and approval of DP for <i>Mononychelus tanajoa</i> (2018-006)	2018-006 TPDP eForum	
6. Any other business	-	Chairperson
7. Closing of the meeting - Recommendations to Standards Committee or IPPC Secretariat	-	CASSIN/ Chairperson

Appendix 2: Participants list**TECHNICAL PANEL ON DIAGNOSTIC PROTOCOLS (TPDP)****12 and 20 April 2022 – Virtual Meetings****PARTICIPANTS LIST**

A check (✓) in column 1 indicates confirmed attendance at the meeting by the time this paper was posted.

	Participant role	Name, mailing, address, telephone	Email address	Term begins	Term ends
	Steward	Mr Álvaro SEPÚLVEDA LUQUE Servicio Agrícola y Ganadero División de Protección Agrícola y Forestal Av. Presidente Bulnes 140, 4 th floor Santiago CHILE Tel: + 56-2 234 5120	alvaro.sepulveda@sag.gob.cl		
✓	Bacteriology	Mr Robert TAYLOR Plant Health & Environment Laboratory New Zealand Ministry for Primary Industries 231 Morrin Road St Johns PO Box 2095 Auckland 1140 NEW ZEALAND Tel: (+64) 9 909 3548 Fax: (+64) 9 909 5739	Robert.Taylor@mpi.govt.nz	May 2011	May 2026 (3 rd term)
	Botany	Ms Liping YIN Plant Quarantine Laboratory Animal and Plant Inspection and Quarantine Technology Center Shanghai Entry-Exit Inspection and Quarantine Bureau 1208 Minsheng Road Shanghai, 200135 CHINA Tel: (+86) 21 6854 0577 Fax: (+86) 21 6854 6481	yinlp@shciq.gov.cn ; yinlp2013@hotmail.com	April 2008	April 2023 (3 rd term)
✓	Botany	Ms Colette C. JACONO USA / USDA-APHIS-PPQ National Identification Services National Taxonomist - Botany Address: 10300 Baltimore Ave., BARC-W Bldg 12, Rm 10., Beltsville MD 20705-2350 USA Tel. (+1) 240 428 9658	Colette.Jacono@usda.gov	October 2020	October 2025 (1 st term)

	Participant role	Name, mailing, address, telephone	Email address	Term begins	Term ends
✓	Entomology	Mr Norman B. BARR Assistant Director Mission Laboratory 22675 N. Moorefield Rd. Moore Air Base Bldg. S-6414 Edinburg, TX 78541 USA Tel. (+1) 956 205 7658 Fax: (+1) 956 205 7680	Norman.B.Barr@aphis.usda.gov	July 2012	July 2022 (2 nd term)
✓	Entomology	Ms Juliet GOLDSMITH Plant Health Specialist Caribbean Agricultural Health and Food Safety Agency (CAHFSA) Letitia Vriesdelaan 10 Paramaribo SURINAME Tel: (+597) 422 546 Mobile: (+597) 725 2922	julietgoldsmith@gmail.com	November 2014	November 2024 (2 nd term)
✓	Nematology	Ms G�eraldine ANTHOINE Directrice adjointe / Deputy head Chef d'unit� coordination de la r�f�rence / Head of unit "coordination of reference activities" 7 rue Jean Dixm�ras 49044 ANGERS cedex 01 FRANCE Tel: (33) 241207431 Fax: (33) 240207430	geraldine.anthoine@anses.fr	April 2009	April 2024 (3 rd term)
✓	Virology	Ms Vessela Assenova MAVRODIEVA Assistant Laboratory Director, USDA APHIS, PPQ Beltsville, MD USA Tel: (+1) 301-313-9208	vessela.a.mavrodieva@usda.gov	March 2020	March 2025 (1 st term)
	Mycology	Ms Julie PATTEMORE Assistant Director: Plant Pathology, Department of Agriculture, Water and the Environment Melbourne AUSTRALIA Tel: (+61) 3 83186957	julie.pattimore@awe.gov.au	March 2020	March 2025 (1 st term)
✓	Mycology	Ms Yazmin RIVERA Molecular Biologist USDA APHIS, PPQ Beltsville, MD USA Tel: (+1) 301-313-9273	Yazmin.Rivera@usda.gov	March 2020	March 2025 (1 st term)
✓	IPPC Secretariat Lead	Ms Adriana MOREIRA Standards Officer / Deputy Assistant to Unit Leader IPPC Secretariat / FAO Viale delle Terme di Caracalla 00153 Rome, Italy	Adriana.Moreira@fao.org		

	Participant role	Name, mailing, address, telephone	Email address	Term begins	Term ends
✓	IPPC Secretariat Support	Ms Aoife CASSIN Standard Setting Specialist IPPC Secretariat / FAO Viale delle Terme di Caracalla 00153 Rome, Italy	Aoife.Cassin@fao.org		
✓	IPPC Secretariat Support	Ms Erika MANGILI ANDRE Standard Setting Specialist IPPC Secretariat / FAO Viale delle Terme di Caracalla 00153 Rome, Italy	Erika.MangiliAndre@fao.org		