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**Virtual Meeting
17 February 2021**

IPPC Secretariat

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1. Opening of the Meeting

1.1 Welcome

- [1] The Standard Setting Officer, Ms Adriana G. MOREIRA, from the International Plant Protection Convention (IPPC) Secretariat (hereafter referred to as the “IPPC Secretariat”), welcomed the participants to the first virtual meeting of the Technical Panel on Diagnostic Protocols (TPDP) in 2021 with a particular welcome to the new SSU team member of the Secretariat Ms Erika MANGILI ANDRE who is an in-kind contribution from the NPPO of Brazil.

2. Meeting Arrangements

2.1 Selection of the Chairperson

- [2] Ms Juliet GOLDSMITH (Caribbean Agricultural Health and Food Safety Agency (CAHFSA) was selected as Chairperson.

2.2 Selection of the Rapporteur

- [3] Ms Vessela MAVRODIEVA (U.S. Animal and Plant Health Inspection Service) was selected as Rapporteur.

2.3 Adoption of the agenda

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

3. Administrative Matters

3.1. Participants/membership

- [5] The IPPC Secretariat reminded participants to update their contact information if necessary, as it is reflected in the TPDP membership list¹.
- [6] It was acknowledged that Ms Geraldine ANTHOINE, Mr Brendan RODONI and Ms Liping YIN were unable to attend the meeting.

3.2. Connections to Zoom and virtual meetings

- [7] The IPPC Secretariat reminded participants of Zoom meeting guidelines and that doubts or troubles regarding Zoom connections could be queried or reported to the Secretariat during the meeting.

4. The TPDP Work Programme

4.1. General update on the TPDP work programme. Action items from previous meetings

- [8] The TPDP went through the list of action items from previous meetings and the responsible for each item updated the TPDP on the topics. These are as follows:
- [9] Regarding the 2020-11 TPDP meeting:
- *Mononychelus tanajoa* (2018-006): the discipline lead, Ms Juliet GOLDSMITH, informed that the DP drafting group was contacted by the IPPC Secretariat and that the draft DP is being developed and going forward.
 - Draft DP for *Striga* spp. (2008-009) review before opening a TPDP e-Forum: one of the discipline leads for this draft DP, Ms Colette JACONO, reported that the review of the draft DP and of the compiled comments was almost finished. The IPPC Secretariat mentioned that an e-Forum will be opened for the TPDP consideration and approval to recommend to submit to the Standards Committee (SC) for adoption this year. Ms Colette JACONO asked about the compiled comments expected to

¹ TPDP membership list: <https://www.ippc.int/en/publications/81560/>

be done by 1 March 2021, whether they are supposed to respond all the comments received. The IPPC Secretariat clarified that each comment has to be responded to and some explanation needs to be given, mostly for the modified and non-accepted comments, pointing out that there are some standard reply text.

- The IPPC Secretariat also mentioned that for this draft DP a meeting could be set up with the discipline leads and the lead author to exchange information and finalize the review. Ms Colette JACONO agreed that for this DP there are few responses left to be provided and will work with the IPPC Secretariat to finalize the responses to country comments.
- Revise the document on the proposal to adjust the scope for the draft DP for Genus *Ceratitidis* (2016-001) to be presented to the SC: It was informed that the document has been updated and that it will be presented to the SC in due course.
- Potential revision of the IPPC DP 21 ‘*Candidatus Liberibacter solanacearum*’: Mr Robert TAYLOR will follow up with EPPO, as there were some comments made at the TPDP August 2019 meeting.
- The TPDP agreed for Ms Juliet GOLDSMITH and Mr Álvaro SEPÚLVEDA LUQUE to report back on how the TPDP can support a potential IRSS proposal on laboratory diagnostic networking from the IPPC Strategic Framework 2020-2030: the IPPC Secretariat gave a brief explanation on some of the IRSS activities under the IC scope, as the study on implementation analysis on ISPMs or other specific topics through surveys and reminded the group about the action from the last TPDP meeting regarding a possible study on diagnostic laboratory networks. The TPDP Steward mentioned about the difficulty to link the TPDP with the IRSS and queried the IPPC Secretariat about the study already in the IRSS work programme on the IPPC diagnostic protocols. The IPPC Secretariat recalled about an exercise that was done by the TPDP some years ago on a survey on the use and utility of DPs and also on the language version that NPPOs/RPPOs uses to implement the DPs, once it is a very specialized action for the NPPOs and that it appeared that usually it is used in English by NPPOs/RPPOs. The IPPC Secretariat also pointed out that it has been signaled by the Implementation and Capacity development Committee (IC) that there are funds for the project; nevertheless there is no certainty that the IC will start this project soon. It was further informed that the intention would be to incorporate some elements on laboratory diagnostic networking, as apparently it was also informed with some of the donors of the project. Those initiatives can be used to get information from the contracting parties and RPPOs regarding some implementation aspects. One TPDP member stressed that one of the challenges regarding the IRSS is to get responses from the countries and for a survey like this to be developed there are two ways the TPDP could access: one regarding the questions that are sent, making sure that they capture the right information but also regarding the follow up of the responses, addressing the questionnaires to the right persons. The Secretariat and the TPDP Steward would follow up this topic with the IC.

[10] Regarding the 2019-08 TPDP meeting²:

- The TPDP agreed that the TPDP gather different sources of information (manual, guides, videos) from different regions, in order to identify gaps in the existing diagnostic protocols (pending SC decision): The Secretariat explained this action from the previous face-to-face meeting. The Secretariat explained that, to revise the IPPC manual for example, the TPDP needs to have the SC and IC’s approval. One member indicated that the IPPC website has been showing a diagnostic component page³, and queried if the TPDP could provide comment, as it seemed that the panel’s should contribute to the information being provided. The Secretariat clarified that this webpage was under the remit of the Implementation facilitation Unit (IFU) of the IPPC Secretariat, but welcomed any comments from the TPDP. The TPDP members agreed to provide comments on the diagnostic

² 2019-08 TPDP meeting report: <https://www.ippc.int/en/publications/88295/>

³ <https://www.ippc.int/en/core-activities/capacity-development/phytosanitary-system/diagnostic/>

component page to the Secretariat (for example, it was noted that it would be beneficial to add a link to the adopted IPPC DPs page).

- The TPDP recommended that a CPM recommendation on “Facilitating shipment and transport of reference material and specimens, to support diagnostic activities for regulated pests” be developed, and asked Mr Brendan RODONI and Ms Juliet GOLSMITH, supported by Ms Françoise PETTER, to draft a justification for that purpose to be discussed during the next TPDP meeting (pending SC decision): The Secretariat provided a brief explanation on the action and mentioned the potential relation with the Annex on Specific Import Authorization, as annex to ISPM 20 (*Guidelines for a phytosanitary import regulatory system*), which has been just developed. The IPPC Secretariat therefore, suggested waiting for the Annex on Specific Import Authorization to evaluate better the relation with this topic. One member queried if the TPDP could provide comments before its recommendation to the CPM, and it was explained that the TPDP could provide comments only via their NPPOs or RPPOs during consultation period (or to contact SC members). One member commented that this topic is somehow related to the Nagoya Protocol (samples sharing, for example), in order to facilitate this kind of shipment and transport. The IPPC Secretariat confirmed that this topic is related to Nagoya Protocol and suggested that the TPDP could try to draft a document, but reminded that the focus of this group is to work on DPs. The TPDP agreed to wait the development and the process of the Annex on Specific Import Authorization before taking any other action.
- The TPDP is willing to take the lead in organizing the first international workshop on diagnostic laboratories in 2021, and asked Mr Norman BARR, supported by Mr Brendan RODONI, to draft a detailed proposal (justification, programme, resource mobilization) to be discussed during the next TPDP meeting (pending SC decision): the IPPC Secretariat gave a brief comment about the topic, pointing out that due to COVID-19 pandemic the plans had been changed and the TPDP work programme was also being adjusted. It was also pointed out that the plan to hold the International Plant Health Conference in Helsinki has been canceled. The TPDP agreed to remove this subject from its discussions due to the new challenges being faced.

[11] Regarding the 2020-09 TPDP meeting⁴:

- The TPDP asked Mr Norman BARR to review the documents for “Best practices for sequencing: Using DNA sequences to diagnose a pest” and the section on “Interpretation of results from LAMP tests”: the IPPC Secretariat introduced the topic reminding the TPDP to send comments to Mr Norman BARR. It was recalled that the document on the best practices for sequences it is included in the IPPC Instruction for Authors, however the aim now was to revisit the section on “Interpretation of results from LAMP tests”. It was suggested to revisit this document in the second half of 2021.

[12] The TPDP:

- (1) *noted* the updates provided by the responsible for each action item on their progress.
- (2) *requested* the discipline lead to follow up the update of EPPO revision of their diagnostic protocol in relation to the revision the IPPC DP 21 ‘*Candidatus Liberibacter solanacearum*’.
- (3) *requested* the discipline lead and the DP drafting group to revise the draft DP for *Striga* spp. and the responses to comments and send it to the Secretariat by 1 March 2021.

⁴ 2020-09 TPDP meeting report: <https://www.ippc.int/en/publications/88897/>

- (4) *agreed* to wait for the Annex on Specific Import Authorization to evaluate better the relation with the CPM recommendation on “Facilitating shipment and transport of reference material and specimens, to support diagnostic activities for regulated pests”.
- (5) *agreed* to remove the subject on organizing the “*first international workshop on diagnostic laboratories*” from the TPDP discussions.
- (6) *agreed* to submit additional comments to Mr Norman BARR on the documents for “*Best practices for sequencing: Using DNA sequences to diagnose a pest*” for the section of “*Interpretation of results from LAMP tests*” and revisit the document in the second half of 2021.

4.2 Updates on the progress of DPs in the work programme

[13] The TPDP went through the list of current diagnostic protocols (DPs) to provide an update. There are currently 19 subjects (diagnostic protocols (DPs)) in the TPDP work programme at various stages of development. These were as follows:

- (1) Genus *Ceratitis* (2016-001), priority 1 (under development): It was informed that the DP drafting group is working to have the first draft ready for end of April 2021.
- (2) *Striga* spp. (2008-009), priority 1 (under development): see update under agenda item 4.1.
- (3) Tephritidae: Identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028), priority 1 (“pending status”): this DP remains with pending status, awaiting further discussions from the SC.
- (4) *Pyricularia oryzae* (syn. *Magnaporthe oryzae*) on *Triticum* (2019-002), priority 1 (under development): the discipline lead expressed concern on the status of the co-authors and asked the IPPC Secretariat to try to reach out to them to check on their commitment with the development of this DP.
- (5) *Microcyclus ulei* (2019-003), priority 1 (call for authors): It was informed that it have not been any updates regarding the authors. The discipline lead will conduct a literature search for potential experts and reply to the IPPC Secretariat. It was suggested by the IPPC Secretariat that the topic could return to the SC for advice in case if no authors could be selected as no nominations have been received.
- (6) *Puccinia graminis* f. sp. *tritici* UG 99 (2019-004), priority 1 (under development): the discipline lead tried to reach out to the authors, but there was no response from the drafting group. The IPPC Secretariat will try to contact the authors to check their progress on this topic.
- (7) *Mononychelus tanajoa* (2018-006), priority 1 (under development): the discipline lead voiced that the first draft is done and will be forwarded to the IPPC Secretariat by the end of February 2021 to open an expert consultation in March 2021. The aim is to have this draft DP recommended to the SC for approval for consultation period this year.
- (8) *Citrus leprosis virus* (2018-025), priority 1 (under development): there are no updates since 2020-09 TPDP meeting.
- (9) Psyllid vectors of *Candidatus Liberibacter solanacearum* (2018-030), priority 1 (under development): Mr Robert TAYLOR will follow up the topic and expect to transmit the draft DP for expert consultation by 30 June 2021.
- (10) Begomoviruses transmitted by *Bemisia tabaci* (2006-023), priority 2 (under development): the Secretariat informed that the discipline lead, Mr Brendan RODONI, is to draft a paper to be presented to the TPDP (with the aim to present to the SC) requesting to remove the DP from the work programme. The IPPC Secretariat will follow-up.
- (11) *Candidatus Liberibacter* spp. on *Citrus* spp. (2004-010), priority 2 (under development): the draft DP was submitted to the expert consultation some years ago. A revision is being undertaken by Mr Robert TAYLOR to update information, address some TPDP comments, before it is presented back again to the TPDP through e-Forum for the recommendation to the SC for consultation period.

- (12) Revision of DP 5 (*Phyllosticta citricarpa* (McAlpine)) Aa, (2019-011) No priority (under development), there are no updates regarding the topic. The discipline lead, Ms Yasmin RIVERA, will reach out to the authors and initiate the text revision.
- (13) *Amaranthus palmeri* (2019-006), priority 2 (selection of DP authors). See agenda item below.
- (14) *Solanum rostratum* (2019-007), priority 2 (selection of DP authors). See agenda item below.
- (15) Pospiviroid species (except Potato spindle tuber viroid (DP 7)) (2018-031), priority 2 (selection of DP authors). See agenda item below.
- (16) *Acidovorax avenae* subsp. *citrulli* (2018-032), priority 2 (selection of DP authors). See agenda item below.
- (17) *Moniliophthora roreri* (2019-005), priority 3 (selection of DP authors). See agenda item below.
- (18) *Meloidogyne mali* (2018-019), priority 3 (selection of DP authors). See agenda item below.
- (19) *Cronartium comandrae* (2018-015), priority 4 (selection of DP authors). See agenda item below.

[14] The TPDP:

- (1) *noted* the updates provided by the discipline leads on the progress of DPs in the TPDP work programme.
- (2) *asked* the IPPC Secretariat to establish contact with the DP drafting groups to check on their commitment with the DPs for *Pyricularia oryzae* (syn. *Magnaporthe oryzae*) on Triticum and for *Puccinia graminis* f. sp. *tritici* UG 99.
- (3) *asked* the discipline lead of the draft DP for *Microcyclus ulei* to search for potential experts and transmit it to the IPPC Secretariat.
- (4) *requested* the discipline lead to send the draft DP for *Mononychelus tanajoa* to the IPPC Secretariat by the end of February 2021.
- (5) *requested* the discipline lead to send the revised draft DP for Psyllid vectors of *Candidatus Liberibacter solanacearum* to the IPPC Secretariat by 30 June 2021.
- (6) *requested* Mr Brendan RODONI to draft a paper to be presented to the SC requesting to remove the DP for Begomoviruses transmitted by *Bemisia tabaci* from the work programme.
- (7) *invited* the DP drafting group to provide revisions to the draft DP for *Candidatus Liberibacter* spp. on *Citrus* spp.
- (8) *requested* the discipline lead to establish contact with the drafting group to revise the DP 5 (*Phyllosticta citricarpa* (McAlpine)) Aa.

4.3 Selection of DP authors

[15] The IPPC Secretariat presented the nominations received for DP authors for some DPs on the TPDP work programme in which a call was made. The TPDP considered the nominations and selected experts for the drafting groups for DPs on the TPDP work programme and assign a lead author to the drafting groups, as follows:

- (1) *Amaranthus palmeri* (2019-006), the TPDP agreed with Mr Ruoqing WANG (Canada) as a lead author. The TPDP will try to find specific experts to complete the DP drafting group.
- (2) *Solanum rostratum* (2019-007), a literature review will be done by Ms Colette JACONO to try to find a specific expert for the DP.
- (3) Pospiviroid species (except Potato spindle tuber viroid (DP 7)) (2018-031), the TPDP agreed with Mr Christophe LACOMME (UK) as the lead author, and Ms Joanna ROENSHORST (The Netherlands) and Ms Rosemarie HAMMOND(USA) as co-authors.

- (4) *Acidovorax avenae* subsp. *citrulli* (2018-032), the TPDP agreed with Mr Harrie KIENRAADT (The Netherlands) as the lead author, and Emilio STEFANI (Italy) and Ahmed MAHMOUD (Egypt) as the co-authors.
- (5) *Moniliophthora roreri* (2019-005), the TPDP agreed with Mr Sheldon ELLIOT (Jamaica) as the lead author. A new call for authors will be opened by the Secretariat. In parallel, the selected author will be contacted by Ms Juliet GOLDSMITH to search for specific experts to complete the drafting group.
- (6) *Meloidogyne mali* (2018-019), the TDPD agreed with Mr Gerrit KARSSSEN (The Netherlands) as the lead author. A new call for authors will be opened by the Secretariat which, in parallel, will search for specific experts to complete the drafting group.
- (7) *Cronartium comandrae* (2018-015), it was not possible to select the authors. A new call for authors will be opened by the IPPC Secretariat which, in parallel, will search for specific experts to complete the drafting group.

[16] The TPDP considered nominating additional DP authors for DPs for which it was not possible to select the drafting group and/or may need additional expertise.

[17] The TPDP:

- (1) *considered* the nominations and selected experts for the drafting groups of the DPs for Pospiviroid species (except Potato spindle tuber viroid (DP 7)) and for *Acidovorax avenae* subsp. *citrulli* on the TPDP work programme, assigning a lead author to the drafting groups.
- (2) *considered* the nominations and selected one expert as the lead author of the drafting group of the DPs for *Amaranthus palmeri*, *Moniliophthora roreri* and *Meloidogyne mali*.
- (3) *agreed* to nominate additional DP authors for the DPs for which it was not possible to select the drafting group or may need additional expertise.
- (4) *asked* the IPPC Secretariat to issue a new call for authors for draft DPs for: *Amaranthus palmeri* (2019-006), *Solanum rostratum* (2019-007), *Moniliophthora roreri* (2019-005), *Meloidogyne mali* (2018-019), *Cronartium comandrae* (2018-015), *Microcyclus ulei* (2019-003) and Revision of DP 05: (*Phyllosticta citricarpa* (McAlpine)) Aa (2019-011)

5. Updates from the Standards Committee (SC) on TPDP Recommendations to the SC to revise adopted four DPs

[18] The IPPC Secretariat gave a brief introduction on the 2020 SC November meeting on the TPDP recommendation to the SC to revise four adopted DPs (DP 03 *Trogoderma granarium*; DP 09 Genus *Anastrepha*; DP 25 *Xylella fastidiosa* and DP 27 *Ips* spp.). The TPDP Steward, Mr Álvaro SEPÚLVEDA LUQUE, presented the updates, as follows:

- **15 December 2020 - 11 January 2021:** A forum was open for the TPDP to review the recommendations for the revision of four adopted DPs and agree to *recommended to the Standards Committee (SC) for them to be added to the TPDP work programme (DP 03 Trogoderma granarium; DP 09 Genus Anastrepha; DP 25 Xylella fastidiosa and DP 27 Ips spp.)* The TPDP in the forum agreed to recommend the revisions of DP 03, DP 09, DP 25 and DP 27 to the SC to be added to the work TPDP programme.
- **20 January 2021 - 03 February 2021** (extended to 10 February 2021): A forum was open for the SC to review the recommendations of the TPDP for the revision of these four adopted DPs and agree for the revisions to be added to the TPDP work programme. During the forum discussion, some SC members had concerns about the justification for immediate revision of DP 03: *Trogoderma granarium*; DP 09 Genus *Anastrepha* and DP 25 *Xylella fastidiosa*. During the SC forum some

responses from TPDP members were received clarifying the request for revision of DP 03: *Trogoderma granarium* and DP 09: Genus *Anastrepha*. At the closing of the forum, 14 members of the SC agreed with the recommendation for the four DPs to be added to the work TPDP programme, but for a final conclusion it is necessary to open a poll.

- **Current situation:** To clarify the position of the SC regarding the three DPs with comments (DP 03, 09 and 25), a poll was open and closed on 18 February 2021 and the SC agreed to include the remaining three DPs to the TPDP work programme.

[19] The TPDP:

(1) *noted* this update.

6. Any Other Business

[20] There was no other business.

7. Close of the Meeting

[21] The TPDP decided that the next meeting should be held in March/April 2021.

[22] The Chairperson closed the meeting and thanked the participants for their active participation.

Appendix 1: Agenda**2021 VIRTUAL MEETING OF THE
TECHNICAL PANEL ON DIAGNOSTIC PROTOCOLS (TPDP)****17 February 2021****AGENDA**

| Agenda Item | Document No. | Presenter |
|--|---|--------------------------|
| 1. Opening of the Meeting | | |
| 1.1 Welcome by the IPPC Secretariat | -- | MOREIRA |
| 2. Meeting Arrangements | -- | |
| 2.1 Selection of Chairperson | -- | MOREIRA |
| 2.2 Selection of the Rapporteur | -- | Chairperson |
| 2.3 Adoption of the Agenda | 01_TPDP_Tel_2021_Feb | Chairperson |
| 3. Administrative Matters | -- | |
| 3.1 Participants / membership | TPDP membership list | MANGILI |
| 3.2 Connections to Zoom and virtual meetings | Short guideline for participants | |
| 4. TPDP work programme | | |
| 4.1 General update on the TPDP work programme Action items from previous meetings | (Link to TPDP meeting reports) TPDP 2020-10 meeting report | Chairperson / ALL |
| 4.2 Updates on the progress of DPs in the work programme Update on the work plan for the DPs: - <i>Puccinia graminis</i> f. sp. <i>tritici</i> UG 99 (2019-004) - <i>Mononychelus tanajoa</i> (2018-006) - <i>Candidatus Liberibacter</i> spp. on Citrus spp. (2004-010) - Genus <i>Ceratitidis</i> (2016-001) | <i>(oral report back from all leads)</i> | Chairperson/ / ALL |
| 4.3 Selection of DP authors: <ul style="list-style-type: none"> • <i>Amaranthus palmeri</i> (2019-006) • <i>Solanum rostratum</i> (2019-007) • Pospiviroid species (except Potato spindle tuber viroid (DP 7)) (2018-031) • <i>Acidovorax avenae</i> subsp. <i>citrulli</i> (2018-032) • <i>Moniliophthora roreri</i> (2019-005) • <i>Meloidogyne mali</i> (2018-019) • <i>Cronartium comandrae</i> (2018-015) | 02_TPDP_Tel_2021_Feb | MOREIRA / Chairperson |
| 5. Updates | | |

| Agenda Item | | Document No. | Presenter |
|--------------------|---|----------------------|-------------------------------------|
| 5.1 | Updates from the Standards Committee (SC) | 03_TPDP_Tel_2021_Feb | SEPULVEDA-LUQUE (Steward) |
| 6. | Any other business | - | Chairperson |
| 7. | Closing of the meeting - Recommendations to SC or IPPC Secretariat - Next virtual meeting date | - | MOREIRA/ Steward/ Chairperson |