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Convention

## **REPORT**

# **Technical Panel on Diagnostic Protocols (TPDP)**

**Virtual Meeting  
19 July 2022**

**IPPC Secretariat**

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## 1. Opening of the Meeting

### 1.1 Welcome

- [1] The Standard Setting Unit (SSU) officer, Adriana MOREIRA, from the International Plant Protection Convention (IPPC) Secretariat (hereafter referred to as “the secretariat”), welcomed the participants to the virtual meeting of the Technical Panel on Diagnostic Protocols (TPDP).

## 2. Meeting Arrangements

### 2.1 Selection of the Chairperson

- [2] The TPDP selected Géraldine ANTHOINE (French Agency for Food, Environmental and Occupational Health & Safety - ANSES) as chairperson.

### 2.2 Selection of the Rapporteur

- [3] The TPDP selected Juliet GOLDSMITH (Caribbean Agricultural Health and Food Safety Agency - CAHFSA) as rapporteur.

### 2.3. Adoption of the agenda

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

## 3. Administrative Matters

- [5] The secretariat noted that the TPDP members Liping YIN, Colette JACONO, Norman BARR, Vessela MAVRODIEVA, and Julie PATTEMORE were not available to attend the meeting. The Participants’ list is available in Appendix 2. The participants were reminded to update their contact information, if necessary, as it is reflected in the TPDP membership list on the International Phytosanitary Portal (IPP – [www.ippc.int](http://www.ippc.int)).

## 4. Selection of DP authors

- [1] From the call issued on February 2021, the TPDP selected<sup>1</sup> one author for each of the following diagnostic protocols (DPs):

- *Amaranthus palmeri* (2019-006) - Ruoqing WANG (Canada)
- *Moniliophthora roreri* (2019-005) - Sheldon ELLIOT (Jamaica)
- *Meloidogyne mali* (2018-019) - Gerrit KARSSSEN (The Netherlands)

- [2] On March 2021, the secretariat opened another call for DP authors<sup>2</sup> for some diagnostic DPs in the TPDP work programme, including the ones that did not have enough submissions on the previous call. Five submissions were received, one for each one the following DPs:

- *Amaranthus palmeri* (2019-006)
- *Solanum rostratum* (2019-007)
- *Moniliophthora roreri* (2019-005)
- *Meloidogyne mali* (2018-019)
- *Cronartium comandrae* (2018-015)

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<sup>1</sup> 2021-02 TPDP Virtual Meeting Report: <https://www.ippc.int/en/publications/89853/>

<sup>2</sup> 2021-03 Call for DP authors: <https://www.ippc.int/en/calls/2021-03-call-for-dp-authors/>

[6] On May 2022 the secretariat opened a call for DP authors<sup>3</sup> for 12 DPs in the TPDP work programme.

- *Bactrocera zonata* (Saunders, 1842) (2021-013)
- *Dickeya spp.* on potato (2021-014)
- *Heterobasidion annosum* (2021-015)
- *Spodoptera frugiperda* (2021-016)
- *Drosophila suzukii* (Diptera: Drosophilidae) (2021-017)
- Tomato brown rugose fruit virus (2021-025)
- *Amaranthus palmeri* (2019-006)
- *Solanum rostratum* (2019-007)
- *Moniliophthora roreri* (2019-005)
- *Meloidogyne mali* (2018-019)
- *Cronartium comandrae* (2018-015)
- *Microcyclus ulei* (2019-003)

[3] Thirty one complete nominations and one incomplete nomination were received during the 2022-05 call for authors. All complete nominations received through the 2021-03 and 2022-05 calls for DP authors and the three authors selected on February 2021 were presented to the TPDP for consideration. The TPDP were invited to consider the nominations received and select authors for the drafting groups, assigning a lead author for each one.

[4] The chairperson presented the document sent by the TPDP member for entomology Norman BARR on the selection of DP authors, as he would not be able to attend the meeting<sup>4</sup>.

[5] The TPDP commented on the expertise of the candidates, agreeing to approve the ones presented in the tables below. Two DPs had only one author selected; in these cases, the secretariat and the TPDP will seek for additional authors to compose the drafting group. For these DPs, the lead author will be assigned once the drafting group is complete. Some candidates were nominated to be authors of more than one DP; in these cases, the TPDP suggested one DP be prioritized by the selected author.

<b><i>Dickeya spp. on potato (2021-014)</i></b>		
Lead author	Xiang Sean LI	Canada
Co-author	Baishi HU	China
Co-author	Jérémy CIGNA	France
Co-author	Gamze Boluk SARI	Turkey

<b><i>Heterobasidion annosum (2021-015)</i></b>		
Lead author	Luana GIORDANO	Italy
Co-author	Eeva Johanna VAINIO	Finland

<b><i>Spodoptera frugiperda (2021-016)</i></b>		
Lead author	Todd Michael GILLIGAN	USA
Co-author	Zhihong LI*	China

\*The TPDP recommended that the author should prioritize this DP

<sup>3</sup> 2022-05 Call for DP authors: <https://www.ippc.int/en/calls/2022-05call-for-dp-authors/>

<sup>4</sup> Document 03\_TPDP\_Tel\_2022\_Jul

<b><i>Drosophila suzukii</i> (Diptera: Drosophilidae) (2021-017)</b>		
Lead author	Rosana TIDON	Brazil
Co-author	Jung Wook KIM	USA
Co-author	Christa Andrea LETHMAYER*	Austria
Co-author	Zhihong LI	China

\* The TPDP recommended that the author should prioritize this DP

<b>Tomato brown rugose fruit virus (2021-025)</b>		
Lead author	Adrian Richard FOX	United Kingdom
Co-author	Xiuling YANG	China
Co-author	Yongjiang ZHANG	China
Co-author	Heiko ZIEBELL	Germany
Co-author	Yahya Zakaria Abdou GAAFAR	Canada

<b><i>Amaranthus palmeri</i> (2019-006)</b>		
Lead author	Ruojing WANG	Canada
Co-author	Sheng QIANG	China
Co-author	Michael Richard GEMMELL	New Zealand

<b><i>Solanum rostratum</i> (2019-007)</b>		
Lead author	Shouhui WEI	China
Co-author	Lisa KIRKHAM	Canada
Co-author	Michael Richard GEMMELL*	New Zealand

\*The TPDP recommended that the author should prioritize between the 2 DPs

<b><i>Meloidogyne mali</i> (2018-019)</b>		
Lead author	Thomas James PRIOR	United Kingdom
Co-author	Gerrit KARSEN	The Netherlands
Co-author	Jianfeng GU	China
Co-author	Fengcheng SUN	Canada
Co-author	Trinh Thi Thu THUY	VietNam

<b><i>Cronartium comandrae</i> (2018-015)</b>		
Lead author	Weijun DUAN	China
Co-author	Jordan BAILEY	Australia

<b><i>Moniliophthora roreri</i> (2019-005)*</b>		
	Sheldon ELLIOT	Jamaica

\*Lead author to be determined when drafting group is complete

<b><i>Microcyclus ulei</i> (2019-003)*</b>		
	Guixiu HUANG	China

\*Lead author to be determined when drafting group is complete

<b><i>Bactrocera zonata</i> (Saunders, 1842) (2021-013)</b>		
Lead author	Camiel DOORENWEERD	USA
Co-author	Christa Andrea LETHMAYER	Austria
Co-author	Fan JIANG	China
Co-author	Luc LEBLANC	USA
Co-author	Zhihong LI	China

[6] The TPDP:

- (1) *selected* the authors for twelve DPs, and *assigned* lead authors for the drafting groups of ten of these DPs, as indicated in the tables above.

## 5. TPDP work programme

### 5.1 Updates and review of draft DPs in the work programme

[7] The TPDP went through the list of subjects that are currently on their work programme and the Discipline leads gave a brief status update.

- *Mononychelus tanajoa* (2018-006): this topic is under consultation period (1 July to 30 September 2022). It is expected that the main substantive comments be addressed to be discussed at the TPDP November 2022 face-to-face meeting.
- *Genus Ceratitis* (2016-001): this topic is under consultation period (1 July to 30 September 2022). It is expected that the main substantive comments be addressed to be discussed at the TPDP November 2022 face-to-face meeting.
- *Puccinia graminis* f. sp. *Triticum* UG 99 (2019-004): the discipline lead informed that this topic is going to be presented discussed on the following agenda item. She completed saying that the change of scope is not a guarantee that the authors will move forward.
- *Acidovorax avenae* subsp. *Citrulli* (2018-032): the discipline lead updated the TPDP that he is going to follow up with the lead author to confirm if the drafting group is still committed to draft the DP.
- *Revision of DP 5 (Phyllosticta citricarpa (McAlpine)) Aa* (2019-011): the discipline lead informed that the drafting group has a draft and that she has to come back to the lead author on recommending the best approach to distinguish the species and finalize the draft. The prevision is to have the draft done by the end of July.
- *Revision of DP 25 Xylella fastidiosa* (2021-003): the discipline lead informed that the drafting group is engaged and the expectation is that this draft will go for expert consultation. He also commented that the lead author has some concerns regarding the revision of EPPO protocol, which can turn this revision out of date. He said that he will contact the authors to explain the process and inform them that any additional information still could be submitted through the expert consultation or the country consultation. He asked the secretariat if the prevision for this draft DP to go for expert consultation would be July and the secretariat confirmed.

- [8] The chairperson asked about the draft DPs that are expected to be submitted to expert consultation. The secretariat informed that three draft DPs are expected to be submitted to the next expert consultation: Revision of DP 27 *Ips* spp (2021-004), Revision of DP 5 (*Phyllosticta citricarpa* (McAlpine)) Aa (2019-011) and Revision of DP 25 *Xylella fastidiosa* (2021-003).
- [7] As some TPDP members could not attend this meeting, the planned discussions on the draft DPs for Pospiviroid species (except Potato spindle tuber viroid (DP 7)) (2018-031), Citrus leprosis virus (2018-025), *Pyricularia oryzae* (syn. *Magnaporthe oryzae*) on *Triticum* spp. (2019-010), Revision of DP 27 *Ips* spp (2021-004), Revision of DP 3 *Trogoderma granarium* Everts (2021-001), Revision of DP 9 Genus *Anastrepha* (2021-002), Psyllid vectors of *Candidatus Liberibacter solanacearum* (2018-030) were postponed to a future meeting.

## 5.2 Scope adjustments

### *Tephritidae: Identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028)*

- [8] The referee of this protocol presented the topic saying that the original subject in the TPDP work programme “Tephritidae: Identification of immature stages of fruit flies of economic importance by molecular techniques” has been in pending status for a while. Currently, there is an increase in available molecular data, which should make it easier to make accurate molecule identification from some of the lineages as it relates to do the species and the species complexes. There are two main justifications to adjust the scope: the information required to document molecular identification methods for an entire family would be extensive and may require expertise outside of the drafting group, and also that there might be challenges as it relates to adopted protocols that might have to be reviewed as it has been doing for some pests, e.g. *Bactrocera*.
- [9] Two suggested approaches were presented: (i) to refine the scope focusing on genus-level identifications of immature flies of the six major pest lineages (*Anastrepha*, *Bactrocera*, *Dacus*, *Ceratitis*, *Rhagoletis*, and *Zeugodacus*) using DNA barcoding, rather than looking at the entire family Tephritidae, which reduces the number of taxa to be consistent with other protocols; (ii) to remain in pending status and the options for continuation will be revisited by the TPDP when possible. The justifications for the scope adjustment were presented in the document drafted by the discipline lead.

### *Puccinia graminis* f. sp. *tritici* UG 99 (2019-004)

- [10] The discipline lead presented the topic saying that the drafting group in accordance with an external expert from the USA who was consulted, agreed that a change of scope should be proposed. According to their opinion, having the DP just for the UG 99 it is not efficient and it might pose some risk of only focusing in one race, where there are many races that are virulent and problematic for different countries, so their first suggestion was to expand the scope to include other races. However, these experts highlighted the fact that race-typing will not necessarily be implementable at any laboratory because of the requirement for specialized facilities and well-trained scientists and technicians in race analysis. She mentioned about a recent publication on a new SNP-based genotyping test. She also updated the TPDP on the information that two of the authors decided to leave the drafting group, which currently has only the lead author. She is trying to include this expert from the USA in the drafting group, as they have a lot of experience on these subject.
- [11] The chairperson confirmed with the secretariat on the process regarding the TPDP suggestion to change the scope to be submitted to the SC for approval. She also reminded the TPDP about a concern that was raised by the lead author on the need to have specialized and trained personnel to implement phenotyping. The discipline lead mentioned that the idea is to send samples to established laboratories that have the infrastructure and experience to do the phenotyping. The chairperson raised the point that this could restrict the use of this diagnostic protocol to very skilled and experienced staff. One member commented that the protocol could provide some guidance on how to do the phenotyping, so they could probably get skilled out to do this, once they have the required infrastructure. He also suggested to provide the contact points of specialized personnel in the protocol. Finally, the chairperson invited the



TPDP to discuss and agree with the change of scope to include other races in this draft protocol, taking into consideration the concerns raised by the lead author.

[12] The TPDP:

- (2) *agreed* to refine the scope of the draft DP Tephritidae: Identification of immature stages of fruit flies of economic importance by molecular techniques, focusing on genus-level identifications of immature flies of the six major pest lineages and present this to the Standards Committee for their consideration.
- (3) *agreed* to change the scope of the draft DP for *Puccinia graminis f. sp. tritici* UG 99, including all possible races and present this to the Standards Committee for their consideration.

### 5.3. Proposal for removal from the work programme

#### *Begomoviruses transmitted by Bemisia tabaci (2006-023)*

[13] The secretariat proposed to defer this topic to be discussed at the next TPDP meeting, as the discipline lead was not able to attend this meeting, which was agreed by the TPDP.

## 6. Updates from IPPC Secretariat

[14] The secretariat reported on the SC July meeting<sup>5</sup>, which had the updates from the technical panels, including the TPDP. One TPDP member, Juliet GOLDSMITH, attended the SC meeting in virtual mode. The secretariat informed on the main outcomes of the meeting, as the TPDP recommendations, which were approved by the SC. The TPDP was also updated on the new SC Chairperson, Sophie PETERSON (Australia) and on some questions posed by the SC regarding the expectations for the number of draft DPs to be submitted to country consultation, as well as the explanations provided by the secretariat on the particularities of the TPDP work. The secretariat also reported that the SC agreed to renew the membership of Norman BARR and to open a call for a virologist. The SC asked if the TPDP would also need other members, especially for bacteriology, considering the number of draft DPs in the work programme, the number of experts for each area, and the next call for topics in 2023. Finally, the secretariat mentioned the SC question on the fluctuations over the years of the number of draft DPs adopted and the quality of the DPs, considering a high number foresee for the following years. The secretariat reported the explanations gave to the SC on the possibility of having two country consultation periods according to the IPPC procedure.

[15] The secretariat updated the TPDP on the next face-to-face meeting confirmed to be held in Paris from 31 October to 4 November, the invitations that are going to be sent as soon as possible to the TPDP members and the procedures regarding the documents and the draft DPs that are going to be discussed during the meeting, considering that two draft DPs were submitted to country consultation (1 July – 30 September) and need to be reviewed by the discipline leads to address the main comments by middle October. The secretariat also pointed out that the draft DPs that are going to be submitted to expert consultation (revisions of DP 5, DP 25 and DP 27) and the draft DPs that have the first draft ready by the end of September could be discussed during the face-to-face meeting, leaving the expert consultation for afterward. Horizontal issues could also be part of the tentative agenda of the face-to-face meeting.

[16] Finally, the secretariat reminded the TPDP members about the International Plant Health Conference (IPHC) that will be held in London, from 21 to 23 September, and detailed on the format of the meeting, which will have some TPDP members participating at the conference.

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<sup>5</sup> 2022-07 Report of the Standards Committee Virtual Focused Meeting:  
<https://www.ippc.int/en/publications/91450/>

## **7. Any Other Business**

- [17] The chairperson asked the TPDP and the secretariat on the need to have a TPDP virtual meeting in September prior to the face-to-face meeting, considering the document that was not discussed at the current meeting and other topics that might need to be discussed previously.

## **8. Close of the Meeting**

- [18] The chairperson closed the meeting and thanked the participants for their active participation.

**Appendix 1: Agenda**

<b>Agenda Item</b>	<b>Document No.</b>	<b>Presenter</b>	
<b>1. Opening of the Meeting</b>			
1.1 Welcome by the IPPC Secretariat	--	MOREIRA	
<b>2. Meeting Arrangements</b>			
2.1 Selection of Chairperson	--	MOREIRA	
2.2 Selection of the Rapporteur	--	Chairperson	
2.3 Adoption of the Agenda	01_TPDP_Tel_2022_Jul	Chairperson	
<b>3. Administrative Matters</b>			
3.1 Participants / membership	<a href="#">TPDP membership list</a>	MANGILI	
3.2 Connections to Zoom and virtual meetings	<a href="#">Short guideline for participants</a>		
<b>4. Selection of DP authors</b>			
4.1 <ul style="list-style-type: none"> <li>• <i>Bactrocera zonata</i> (Saunders, 1842) (2021-013)</li> <li>• <i>Dickeya</i> spp. on potato (2021-014)</li> <li>• <i>Heterobasidion annosum</i> (2021-015)</li> <li>• <i>Spodoptera frugiperda</i> (2021-016)</li> <li>• <i>Drosophila suzukii</i> (Diptera: Drosophilidae) (2021-017)</li> <li>• Tomato brown rugose fruit virus (2021-025)</li> <li>• <i>Amaranthus palmeri</i> (2019-006)</li> <li>• <i>Solanum rostratum</i> (2019-007)</li> <li>• <i>Moniliophthora roreri</i> (2019-005)</li> <li>• <i>Meloidogyne mali</i> (2018-019)</li> <li>• <i>Cronartium comandrae</i> (2018-015)</li> <li>• <i>Microcyclus ulei</i> (2019-003)</li> </ul>	02_TPDP_Tel_2022_Jul  <a href="#">Link to the 2022 TPDP virtual meeting work area</a>	Chairperson/ ALL	
4.2	• Comments from TPDP members on selection of experts: comments from Norman BARR	03_TPDP_Tel_2022_Jul	IPPC Secretariat/ Chairperson
<b>5. TPDP work programme</b>			
5.1	• Updates and review of draft DPs in the work programme	-	Chairperson / DLs
5.2	• Scope adjustments:  - Tephritidae: Identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028)  - <i>Puccinia graminis</i> f. sp. <i>tritici</i> UG 99 (2019-004)	04_TPDP_Tel_2022_Jul  06_TPDP_Tel_2022_Jul	BARR  RIVERA
5.3.	• Proposal for removal from the work programme: - Begomoviruses transmitted by <i>Bemisia tabaci</i> (2006-023)	07_TPDP_Tel_2022_Jul	MAVRODIEVA
5.4	Updates from IPPC Secretariat	05_TPDP_Tel_2022_Jul	IPPC Secretariat
<b>6. Any other business</b>		-	Chairperson
<b>7. Closing of the meeting</b> - Recommendations to SC or IPPC Secretariat		-	Chairperson

## Appendix 2: 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	<b>Mr Álvaro SEPÚLVEDA LUQUE</b> Servicio Agrícola y Ganadero División de Protección Agrícola y Forestal Av. Presidente Bulnes 140, 4 <sup>th</sup> floor, Santiago, <b>CHILE</b> Tel: + 56-2 234 5120	<a href="mailto:alvaro.sepulveda@sag.gob.cl">alvaro.sepulveda@sag.gob.cl</a>		
✓	Bacteriology	<b>Mr Robert TAYLOR</b> Plant Health & Environment Laboratory New Zealand Ministry for Primary Industries 231 Morrin Road St Johns PO Box 2095 Auckland 1140 <b>New Zealand</b> Tel: (+64) 9 909 3548 Fax: (+64) 9 909 5739	<a href="mailto:Robert.Taylor@mpi.govt.nz">Robert.Taylor@mpi.govt.nz</a>	May 2011	May 2026 (3 <sup>rd</sup> term)
	Botany	<b>Ms Liping YIN</b> Plant Quarantine Laboratory Animal and Plant Inspection and Quarantine Technology Center Shanghai Entry-Exit Inspection and Quarantine Bureau 1208 Minsheng Road Shanghai, 200135 <b>China</b> Tel: (+86) 21 6854 0577 Fax: (+86) 21 6854 6481	<a href="mailto:yinlp@shciq.gov.cn">yinlp@shciq.gov.cn</a> ; <a href="mailto:yinlp2013@hotmail.com">yinlp2013@hotmail.com</a>	April 2008	April 2023 (3 <sup>rd</sup> term)
	Botany	<b>Ms Colette C. JACONO</b> USA / USDA-APHIS-PPQ National Identification Services National Taxonomist - Botany Address: 10300 Baltimore Ave., BARC- W Bldg 12, Rm 10., Beltsville, MD 20705-2350 <b>USA</b> Tel. (+1) 240 428 9658	<a href="mailto:Colette.Jacono@usda.gov">Colette.Jacono@usda.gov</a> ;	October 2020	October 2025
	Entomology	<b>Mr Norman B. BARR</b> Assistant Director Mission Laboratory 22675 N. Moorefield Rd. Moore Air Base Bldg. S-6414 Edinburg, TX 78541 <b>USA</b> Tel. (+1) 956 205 7658 Fax: (+1) 956 205 7680	<a href="mailto:Norman.B.Barr@aphis.usda.gov">Norman.B.Barr@aphis.usda.gov</a>	July 2012	2022 (2 <sup>nd</sup> term)

	<b>Participant role</b>	<b>Name, mailing, address, telephone</b>	<b>Email address</b>	<b>Term begins</b>	<b>Term ends</b>
✓	Entomology	<b>Ms Juliet GOLDSMITH</b> Plant Health Specialist Caribbean Agricultural Health and Food Safety Agency (CAHFSA) Letitia Vriesdelaan 10 Paramaribo <b>Suriname</b> Tel: (+597) 422 546 Mobile: (+597) 725 2922	<a href="mailto:julietgoldsmith@gmail.com">julietgoldsmith@gmail.com</a>	November 2014	2024 (2 <sup>nd</sup> term)
✓	Nematology	<b>Ms G�eraldine ANTHOINE</b> 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 <b>France</b> Tel: (33) 241207431 Fax: (33) 240207430	<a href="mailto:geraldine.anthoine@anses.fr">geraldine.anthoine@anses.fr</a>	April 2009	2024 (3rd term)
	Virology	<b>Ms Vessela Assenova MAVRODIEVA</b> Assistant Laboratory Director, USDA APHIS, PPQ, Beltsville, MD, <b>USA</b> Tel: (+1) 301-313-9208	<a href="mailto:vessela.a.mavrodieva@usda.gov">vessela.a.mavrodieva@usda.gov</a>	March 2020	March 2025
	Mycology	<b>Ms Julie PATTEMORE</b> Assistant Director: Plant Pathology, Department of Agriculture, Water and the Environment, Melbourne, <b>Australia</b> Tel: (+61) 3 83186957	<a href="mailto:julie.pattemore@awe.gov.au">julie.pattemore@awe.gov.au</a>	March 2020	March 2025
✓	Mycology	<b>Ms Yazmin RIVERA</b> Molecular Biologist, USDA APHIS, PPQ, Beltsville, MD, <b>USA</b> Tel: (+1) 301-313-9273	<a href="mailto:Yazmin.Rivera@usda.gov">Yazmin.Rivera@usda.gov</a>	March 2020	March 2025
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