



# **REPORT**

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

**Virtual Meeting  
26 June 2024**

**IPPC Secretariat**

Required citation:

IPPC Secretariat. 2024. *Report of the virtual meeting of the Technical Panel on Diagnostic Protocols (TPDP)*, 26 June 2024. Rome. Published by FAO on behalf of the Secretariat of the International Plant Protection Convention (IPPC).

The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations (FAO) concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. The mention of specific companies or products of manufacturers, whether or not these have been patented, does not imply that these have been endorsed or recommended by FAO in preference to others of a similar nature that are not mentioned. The views expressed in this information product are those of the author(s) and do not necessarily reflect the views or policies of FAO.

© FAO, 2024



Some rights reserved. This work is made available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; <https://creativecommons.org/licenses/by-nc-sa/3.0/igo/legalcode>).

Under the terms of this licence, this work may be copied, redistributed and adapted for non-commercial purposes, provided that the work is appropriately cited. In any use of this work, there should be no suggestion that FAO endorses any specific organization, products or services. The use of the FAO logo is not permitted. If the work is adapted, then it must be licensed under the same or equivalent Creative Commons licence. If a translation of this work is created, it must include the following disclaimer along with the required citation: "This translation was not created by the Food and Agriculture Organization of the United Nations (FAO). FAO is not responsible for the content or accuracy of this translation. The original English edition shall be the authoritative edition."

Disputes arising under the licence that cannot be settled amicably will be resolved by mediation and arbitration as described in Article 8 of the licence except as otherwise provided herein. The applicable mediation rules will be the mediation rules of the World Intellectual Property Organization <http://www.wipo.int/amc/en/mediation/rules> and any arbitration will be conducted in accordance with the Arbitration Rules of the United Nations Commission on International Trade Law (UNCITRAL).

**Third-party materials.** Users wishing to reuse material from this work that is attributed to a third party, such as tables, figures or images, are responsible for determining whether permission is needed for that reuse and for obtaining permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

**Sales, rights and licensing.** FAO information products are available on the FAO website (<http://www.fao.org/publications>) and can be purchased through [publications-sales@fao.org](mailto:publications-sales@fao.org). Requests for commercial use should be submitted via: [www.fao.org/contact-us/licence-request](http://www.fao.org/contact-us/licence-request). Queries regarding rights and licensing should be submitted to: [copyright@fao.org](mailto:copyright@fao.org)

**CONTENTS**

- 1. Opening of the meeting ..... 4
  - 1.1 Welcome by the IPPC Secretariat ..... 4
- 2. Meeting arrangements ..... 4
  - 2.1 Selection of chairperson ..... 4
  - 2.2 Selection of the rapporteur ..... 4
  - 2.3 Adoption of the agenda ..... 4
- 3. Administrative matters ..... 4
- 4. TPDP work programme ..... 4
  - 4.1 Selection of authors for the following DP drafting groups ..... 4
  - 4.2 Scope adjustment to subject Tephritidae: identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028) – SC forum summary 7
- 5. Updates ..... 8
  - 5.1 Outcomes of the 2024 May SC meeting ..... 8
  - 5.2 Upcoming face to face meeting preparations – Review of the status of draft DPs ..... 8
- 6. Any other business..... 8
- 7. Close of the meeting ..... 8
- Appendix 1: Agenda..... 9

## 1. Opening of the meeting

### 1.1 Welcome by the IPPC Secretariat

- [1] On behalf of the secretariat of the International Plant Protection Convention (IPPC) (hereafter referred to as “the secretariat”), Adriana G. MOREIRA, IPPC Standard Setting Officer and Deputy Lead of the Standard Setting Unit, welcomed participants to this meeting of the Technical Panel on Diagnostic Protocols (TPDP), which was being held in virtual mode.

## 2. Meeting arrangements

### 2.1 Selection of chairperson

- [2] The TPDP selected Norman BARR (United States of America) as chairperson.

### 2.2 Selection of the rapporteur

- [3] The TPDP selected Vessela Assenova MAVRODIEVA (USA) as rapporteur.

### 2.3 Adoption of the agenda

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

## 3. Administrative matters

- [5] The TPDP welcomed the new Steward, Mr Prudence ATTIPOE (Ghana), the new Assistant Steward, Ms Mi Chi YEA (Republic of Korea) and the new panel member for entomology, Mr David OUVRARD (France). They also welcomed Ms Valérie GRIMAUULT, the Assistant Director of the European and Mediterranean Plant Protection Organization (EPPO) as invited expert.
- [6] The TPDP thanked the outgoing Steward, Mr Alvaro SEPULVEDA (Chile).
- [7] The secretariat informed the TPDP that Ms Julie PATTEMORE (Australia) was unable to attend the meeting.
- [8] The secretariat informed the TPDP that Valérie GRIMAUULT was invited to the face to face meeting as invited expert. She also attended the current virtual meeting, in preparation to the face to face meeting.

## 4. TPDP work programme

### 4.1 Selection of authors for the following DP drafting groups

- [9] The secretariat provided an overview of the call for authors and the process of selecting them for DP drafting groups. The secretariat also informed the TPDP that there were 23 nominations received for the 8 new subjects for DPs on their work programme. The secretariat introduced the paper listing the nominees and noted that the CVs of experts are also posted for the TPDP members perusal<sup>1</sup>.
- [10] The TPDP discussed the nominations and selected the following experts for the appropriate drafting groups:

- *Oryctes rhinoceros* (2023-003)

- [11] There was only one nomination for the drafting group for this subject. The TPDP discussed the candidate and some member noted that it is not clear from the submitted material if the expert has particular expertise with the *Oryctes rhinoceros*. The list of publications do not seem to be relevant to the topic either.

---

<sup>1</sup> 02\_TPDP\_Tel\_2024\_Jun\_Rev, 03\_TPDP\_Tel\_2024\_Jun\_Rev1 (CV's of experts)

[12] The TPDP noted that there are not enough sufficient nominees and recommended to issue a new call. The TPDP agreed to review this nomination again along with any other nominations received at the next call for DP authors.

- ***High-throughput sequencing identification of pure culture of phytopathogenic regulated bacteria isolated from plants (2023-009)***

[13] Four nominations were submitted for this drafting group. The TPDP agreed to select all 4 of the candidates as listed in Table 1 with Sebastien Massart as the lead author of the drafting group for High-throughput sequencing identification of pure culture of phytopathogenic regulated bacteria isolated from plants (2023-009).

**Table 1. Drafting group for High-throughput sequencing identification of pure culture of phytopathogenic regulated bacteria isolated from plants (2023-009)**

Name	Country	Position
Sebastien L.G.A.E. MASSART	Belgium	Lead author
Zhixin Du	China	Co-author
Eric Alan Newberry	USA	Co-author
Luciano Ariel Rigano	New Zealand	Co-author

- ***Alopecurus myosuroides (2023-010)***

[14] Only one nomination was submitted and the TPDP felt that the candidate is suitable for the assignment. However, since one expert is not enough to establish a DP drafting group, the TPDP agreed to issue a new call for *Alopecurus myosuroides* (2023-010) and retain the nominee already submitted.

[15] Some participants offered to follow up through their networks to gather more suitable nominations.

- ***Halyomorpha halys (2023-012)***

[16] There were no nominees for this drafting group. The TPDP noted that there is a lot of expertise in this topic, and a new call should be issued. TPDP members agreed to also follow up within their own networks.

[17] The TPDP agreed to open a new call for DP authors for *Halyomorpha halys* (2023-012).

- ***Bactrocera correcta (2023-015)***

[18] The discipline lead explained that there is already a drafting group working on a DP on *Bactrocera zonata* (2021-013). They already developed a draft and suggested that *B. correcta* be added to the existing draft. This proposal in combining these two subjects is ready to be submitted to the Standards Committee (SC) via e-decision and the TPDP agreed to proceed with it, as it was highlighted the feasibility on doing so.

[19] There were seven experts nominated, including some of the members of the drafting group for *B. zonata* (2021-013) through the call for this specific DP, and the TPDP noted that some were already members of the *B. zonata* authors or were nominated for other insect DPs. Therefore, the TPDP selected three expert for the drafting groups for *Bactrocera correcta* (2023-015) as included in Table 2, noting that the proposal for the SC to combine the subjects *B. correcta* into *B. zonata* will proceed.

**Table 2. Drafting group for *Bactrocera correcta* (2023-015)**

Name	Country	Position
Christa Andrea Lethmayer	Austria	Co-author
Camiel Doorenweerd	USA	Co-author

Luc Leblanc	USA	Co-author
-------------	-----	-----------

- ***Bactrocera tsuneonis* and *Bactrocera minax* (2023-016)**

- [20] Four nominations were submitted and the TPDP found suitable 3 of them to be part of the drafting group for *Bactrocera tsuneonis* and *Bactrocera minax* (2023-016). They proposed Zhihong Li as the lead author, however they noted that this expert already serves on other drafting groups, and in case she does not have the capacity regarding workload, they suggest Yuvarin Boontop to be the lead.

**Table 3. Drafting group for *Bactrocera tsuneonis* and *Bactrocera minax* (2023-016)**

Name	Country	Position
Zhihong Li	China	Lead author
Jupeng Zhao	China	Co-author
Yuvarin Boontop	Thailand	Co-author

- ***Avocado sun blotch viroid* (2023-026)**

- [21] Three nominations were submitted for this topic, and the TPDP agreed that all three have the suitable expertise and they agreed to select all three of them with Antonio Olmos as the lead author.

**Table 4. Drafting group for *Avocado sun blotch viroid* (2023-026)**

Name	Country	Position
Yongjiang Zhang	China	Co-author
Antonio Olmos	Spain	Lead author
Sukhontip Sombat	Thailand	Co-author

- ***Thaumatotibia leucotreta* (2023-029)**

- [22] Six nominations were submitted for this drafting group and the TPDP selected four of them with James Daniel Young the lead author. They noted that 2 of the authors are also part of the panel revising the EPPO protocol on the same pest and welcomed the synergies.

**Table 5. Drafting group for *Thaumatotibia leucotreta* (2023-029)**

Name	Country	Position
Andrea Taddei	France	Co-author
Jan Eli Jozef Mertens	Netherlands	Co-author
Sean Douglas Moore	South Africa	Co-author
James Daniel Young	USA	Lead author

- ***Acidovorax avenae subsp. citrulli* (2018-032)**

- [23] The TPDP has assigned a drafting group already for diagnostic protocol on *Acidovorax avenae* subsp. *citrulli* (2018-032). The discipline lead has identified an expert, Mr Kohei Osaki, who would be suitable to join as a co-author to the drafting group for this protocol. Mr Kohei Osaki agreed and has sent his CV and Statement of Commitment form. His CV is also provided in the document 03\_TPDP\_Tel\_2024\_Jun.

- [24] The TPDP agreed to add Mr Kohei Osaki to the drafting group for *Acidovorax avenae subsp. citrulli* (2018-032).

**Table 6. Drafting group for *Acidovorax avenae subsp. citrulli* (2018-032)**

Name	Country	Role
Mr Harrie KOENRAADT	The Netherlands	Lead author
Mr Emilio STEFANI	Italy	Co-author
Mr Ahmed Mahmoud ISMAIL	Egypt	Co-author
Mr Kohei Osaki	Japan	Co-author

[25] The TPDP also assigned new discipline leads.

[26] The TPDP:

- (1) *confirmed* the selected the authors as follows:
  - for *Oryctes rhinoceros* (2023-003), *Alopecurus myosuroides* (2023-010) and *Halyomorpha halys* (2023-012), the TPDP was unable to establish a drafting group at present, they recommended to open a new call for authors and agreed to include the already submitted nominees to the pool of expert to select from after the new call.
  - for High-throughput sequencing identification of pure culture of phytopathogenic regulated bacteria isolated from plants (2023-009) according to table 1.
  - for *Bactrocera correcta* (2023-015) the TPDP recommend to the SC to change the scope of topic for *Bactrocera zonata* (*Saunders, 1842*) (2021-013) to include *B. zonata* and *B. correcta*. In case that is not agreed, three experts were selected for the drafting group for *Bactrocera correcta* (2023-015) according to Table 2.
  - for *Bactrocera tsuneonis* and *Bactrocera minax* (2023-016) according to table 3. The TPDP proposed Zhihong Li as the lead author, however they noted that this expert already serves on other drafting groups, and in case she does not have the capacity, they suggest Yuvarin Boontop to be the lead
  - for Avocado sun blotch viroid (2023-026) according to table 4
  - for *Thaumatotibia leucotreta* (2023-029) according to table 5
- (2) *agreed* to add Mr Kohei Osaki to the drafting group for *Acidovorax avenae subsp. citrulli* (2018-032).
- (3) *assigned* the following discipline leads and referees:
  - for *Oryctes rhinoceros* (2023-003), Discipline lead: David OUVRARD, referees: Norman BARR and Juliet GOLDSMITH.
  - for *Halyomorpha halys* 2023-012, Discipline lead: David OUVRARD, referees: Norman BARR and Juliet GOLDSMITH.
  - for *Bactrocera correcta* (2023-015) Discipline lead: Norman BARR.
  - for *Bactrocera tsuneonis* and *Bactrocera minax* (2023-016), Discipline lead: Norman BARR, referees: David OUVRARD and Juliet GOLDSMITH.
  - for Avocado sun blotch viroid (2023-026), Discipline lead: Andrew Sarkodie APPIAH, referee: Vessela Assenova MAVRODIEVA.
  - for *Thaumatotibia leucotreta* (2023-029), Discipline lead: Juliet GOLDSMITH, referees: Norman BARR and David OUVRARD.

#### 4.2 Scope adjustment to subject Tephritidae: identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028) – SC forum summary

[27] The topic was on pending status due to the challenges in developing the DP. TPDP recommended to refine the scope of this topic to focus on genus-level identifications of the six major pest lineages. These

would be identification of immature flies to *Anastrepha*, *Bactrocera*, *Dacus*, *Ceratitis*, *Rhagoletis*, and *Zeugodacus* using DNA barcoding. This change in scope reduces the number of taxa to be consistent with other protocols.

[28] The TPDP requested the Standards Committee (SC) to approve the proposed change in scope for this diagnostic protocol topic. During the SC e-decision (2023\_eSC\_May\_05) the SC considered and approved the proposed change in scope for the DP Tephritidae: Identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028).

[29] The discipline lead requested some time to follow up with the drafting team. The TPDP agreed to call for new authors, once the discipline lead confirms it is necessary.

[30] The TPDP

(4) *agreed* to issue a new call for DP authors for the Tephritidae: identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028)

## 5. Updates

### 5.1 Outcomes of the 2024 May SC meeting

[31] The secretariat provided an update<sup>2</sup> of the decisions and pertinent matters discussed at the 2024 May Standards Committee meeting, also previously shared via email correspondence.

[32] The TPDP

(5) *noted* the update.

### 5.2 Upcoming face to face meeting preparations – Review of the status of draft DPs

[33] The secretariat introduced the paper<sup>3</sup> and invited each discipline lead to provide updates on the progress of each DP on the work programme. Due to time constraints, the TPDP agreed to provide updates in 1 week time via email.

## 6. Any other business

[34] There was no other business.

## 7. Close of the meeting

[35] The chairperson thanked the TPDP and the secretariat and closed the meeting.

---

<sup>2</sup> 05\_TPDP\_Tel\_2024\_Jun, (15\_SC\_2024\_May), (16\_SC\_2024\_May)

<sup>3</sup> 04\_TPDP\_Tel\_2024\_Jun



**Appendix 1: Agenda****2024 JUNE VIRTUAL MEETING OF THE  
TECHNICAL PANEL ON DIAGNOSTIC PROTOCOLS (TPDP)****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	--	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_2024_Jun	Chairperson
<b>3. Administrative Matters</b>		
3.1 Participants / membership - Introductions	<a href="#">TPDP membership list</a>	KISS
3.2 Connections to Zoom and virtual meetings	<a href="#">Short guideline for participants</a>	
<b>4. TPDP work programme</b>		
4.1 Selection of authors for the following DP drafting groups - <i>Oryctes rhinoceros</i> (2023-003) - High-throughput sequencing identification of pure culture of phytopathogenic regulated bacteria isolated from plants (2023-009) - <i>Alopecurus myosuroides</i> (2023-010) - <i>Halyomorpha halys</i> (2023-012) - <i>Bactrocera correcta</i> (2023-015) - <i>Bactrocera tsuneonis</i> and <i>Bactrocera minax</i> (2023-016) - Avocado sun blotch viroid (2023-026) - <i>Thaumatotibia leucotreta</i> (2023-029) - <i>Acidovorax avenae</i> subsp. <i>citrulli</i> (2018-032)	02_TPDP_Tel_2024_Jun_Rev1 03_TPDP_Tel_2024_Jun_Rev1 (CV's of experts)	Chairperson / ALL
4.2 Scope adjustment to subject Tephritidae: identification of immature stages of fruit flies of economic importance by molecular techniques (2006-028) – SC forum summary	06_TPDP_Tel_2024_Jun	BARR
<b>5. Updates</b>		
5.1 Outcomes of the 2024 May SC meeting - For reference: two documents presented to the SC May 2027 meeting (TPDP update and TPDP SWOT analysis)	05_TPDP_Tel_2024_Jun  (15_SC_2024_May) (16_SC_2024_May)	MOREIRA / KISS
5.2 Upcoming face to face meeting preparations - Review of the status of draft DPs	04_TPDP_Tel_2024_Jun	MOREIRA / Chairperson / ALL
<b>6. Any other business</b>	-	Chairperson

---

<b>Agenda Item</b>		<b>Document No.</b>	<b>Presenter</b>
7.	Closing of the meeting	-	Chairperson