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Food and Agriculture
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Продовольственная и
сельскохозяйственная организация
Объединенных Наций

Organización de las
Naciones Unidas para la
Alimentación y la Agricultura

منظمة
الغذية والزراعة
للأمم المتحدة

COMMISSION ON PHYTOSANITARY MEASURES

Twelfth Session

Incheon, Republic of Korea , 5-11 April 2017

**Written reports from international organizations - Report from the
Phytosanitary Measures Research Group (PMRG) activities for 2016**

Agenda item 14.2

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Research Group (PMRG)**

English only

1. The Phytosanitary Measures Research Group (PMRG) was initially established at the Expert Consultation on Cold Treatments (ECCT) in December 2013¹ as the Phytosanitary Temperature Treatment Expert Group (PTTEG). The group was created to be an independent group that will consider all temperature related phytosanitary treatments and serve as a forum where critical phytosanitary treatment issues can be addressed through discussion and collaborative research and where scientific analysis and review of global phytosanitary treatments issues and new information can be provided. The IPPC Technical Panel on Phytosanitary Treatments (TPPT) have already utilized PMRG in obtaining answers to key science questions. During 2015, the PTTEG advanced several phytosanitary assignments and had its first meeting in South Africa, at which the name was changed to reflect the broadened scope of the group². The terms of reference of the PMRG is presented in Appendix 4 of the PTTEG meeting report.

2. The PMRG currently has 58 active members from 23 countries collaborating on research and analysis addressing phytosanitary issues. Summaries of activities for 2016 follow:

- 1) A document on phytosanitary systems that are commercially used or approved will be available soon.
- 2) Guidelines for vapour heat treatment research are being developed.
- 3) Guidelines for fumigation treatment research are being developed.
- 4) A document on the possibility of cold treatments generic for pest and/or host species is being developed.
- 5) A literature review that concluded that cold treatments could be generic for variety/cultivar was developed.
- 6) A review paper on “Phytosanitary treatments against *Bactrocera dorsalis* (Diptera: Tephritidae): current situation and future prospects”³ was published: Dohino et al. 2017, Journal of Economic Entomology, volume 110 (1) pages 67-79⁴.
- 7) A study comparing cold tolerance of populations to *Ceratitidis capitata* from Australia, Argentina, and Spain was finished and it was concluded that the most tolerant stage of those occurring in fruit (eggs and larvae) for all three populations was the late 3rd instar. No significant differences in cold tolerance among the three populations naturally infesting mandarins were found.
- 8) The next meeting of the PMRG will be held 10-13 July 2017 in Wageningen, The Netherlands.

3. For more information on PMRG or to find out how to become a member, please check the PMRG web page on the IPP⁵.

¹ ECCT 2013 meeting report:

<https://www.ippc.int/en/partners/phytosanitarymeasuresresearchgroup/publications/2014/11/2013-december-ecct-meeting-report/>

² PTTEG 2015 meeting report:

<https://www.ippc.int/en/partners/phytosanitarymeasuresresearchgroup/publications/2016/02/ptteg-meeting-report-2015/>

³ <https://www.ippc.int/en/news/focus-on-the-oriental-fruit-flies-impact-on-international-trade/>

⁴ Toshiyuki Dohino, Guy J. Hallman, Timothy G. Grout, Anthony R. Clarke, Peter A. Follett, Domingos R. Cugala, Duong Minh Tu, Wayan Murdita, Emilio Hernandez, Rui Pereira, and Scott W Myers. 2016. Phytosanitary treatments against *Bactrocera dorsalis* (Diptera: Tephritidae): Current situation and future prospects. Journal of Economic Entomology 2016 1–13.

⁵ PMRG page on the IPP (public page):

<https://www.ippc.int/en/liason/organizations/phytosanitarymeasuresresearchgroup/>