**European and Mediterranean Plant Protection Organization**

**Organisation Européenne et Méditerranéenne pour la Protection des Plantes**

**Update for the TC of RPPOs on EPPO activities in 2015**

**Membership and Governance**

Fifty countries are members of EPPO in 2015: European countries (almost all of them), and countries around the Mediterranean and in Central Asia. Membership has been stable for some years. Confirmation of application from Georgia is still awaited, and would bring EPPO membership up to 51 countries.

At the Council in 2015 we appointed Sweden onto the Executive Committee to replace Estonia and join Algeria, Austria, Bosnia and Herzegovina, Serbia, Switzerland and Uzbekistan. Mrs Karola Schorn (Germany) was elected as Chairman for a three year term starting in 2016, and Mrs Natalia Sherokolava (Russian Federation) was elected for a second three year term as Vice-Chairman.

Other items on the Council agenda included the approval of Standards, updates on projects for which EPPO is in discussion with potential funders, and agreement of the work programme and budget for 2016. Collaborations with the European Commission (including EFSA) are well established and discussions continue on possible projects for collaboration with the Eurasian Economic Commission.

**Staff at 30/10/2015**

**Martin Ward**,Director-General

**Françoise Petter**,Assistant Director

**Vlasta Zlof**,Scientific Officer, leading on Plant Protection Products

**Anne-Sophie Roy**,Information Officer

**Andrei Orlinski**,Scientific Officer

**Muriel Suffert**,Scientific Officer

**Madeleine McMullen**,Managing Editor

**Rob Tanner**,Scientific Officer

**Valerio Lucchesi**,Scientific Officer

**Baldissera Giovani**,Co-ordinator of the Euphresco research funders’ network

**Jeroen Meeussen**, EU Minor Uses Co-ordinator

**Eliane Madène**,Administrator

**Damien Griessinger**,IT Officer

**Fabienne Grousset**,Scientific Officer

**Marie-Christine Ozanon**,Secretary

**Jocelyne Cesari**, Secretary

**Cintia Mauchien**,Administrative Support

Mr Jean Perchet completed a three year secondment to EPPO from the French Government at the end of September. His contribution over that time in particular to the CPM Panel, the Inspections Panel and the Q-Collect project are acknowledged, as is the contribution of France in making him available to EPPO.

EPPO has extended the contractual arrangement with Ms Sarah Brunel which will enable her to continue working for the IPPC Secretariat on a short term contract. Her post in EPPO has been filled by Mr Rob Tanner, also on a short term contract.

**Programme of Meetings**

The programme of administrative and technical meetings organised by EPPO in 2015 is shown in Appendix 1. The Calendar of meetings for 2016 is also appended.

**Working Party on Plant Protection Products**

The 45th Meeting of the Working Party on Plant Protection Products took place in York on 2015-05-27/29, hosted by the Chemicals Regulation Directorate of the UK’s Health and Safety Executive. There were 21 participants from 17 EPPO countries and a member of ECPA[[1]](#footnote-2) as an observer. Nine revised or new specific Standards and two revised general Standards were proposed to Council for adoption. Fifteen new or revised tables for efficacy extrapolation between crops and two examples of efficacy evaluation for zonal assessment were approved by the Working Party for publishing on the EPPO website. Two questionnaires were agreed: one on dose expression, including specific aspects in relation to seed treatment, and the other on the use of leaf wall area.

The Working Party agreed a paper to raise awareness of the need for resistance monitoring, which was later presented to EPPO Council.

Plans were presented for improving recovery of costs for use of the PP1 database of Standards on efficacy testing through a clearer charging structure and automatic reminders when licences are due for renewal. The interest of developing countries in the use of these Standards has been explored in a meeting with the plant protection team in FAO.

Following the report of an *ad hoc* Expert Working Group on Integrated Pest Management the Working Party concluded that updating the the 33 PP2 series Standards to address national needs on IPM would be possible, but would require substantial effort and was not a current priority for EPPO resources.

Standards adopted in 2015

*Specific Standards for Efficacy Evaluation of Plant Protection Products (series PP 1):*

*-* Botryotinia fuckeliana *on strawberries (revision PP 1/16)*

*- Fusarium ear rot of maize (New)*

*-* Phthorimaea operculella *(potato tuber moth) (New)*

*-* Anarsia lineatella *(peach twig borer) (New)*

*-* Grapholita molesta *(oriental fruit moth) (New)*

*- Slugs (revised and merged PP 1/95 and PP 1/96)*

*- The design and use of molluscicide small plot cage (barriered) field trials (New)*

*- Weeds in asparagus (New)*

*- Chemical hybridizing agents in cereals (except maize) (revision PP 1/182)*

*General Standards for Efficacy Evaluation of Plant Protection Products (series PP 1):*

*- Resistance risk analysis (revision PP 1/213)*

*- Guidance on comparative assessment (minor revision PP 1/271)*

**Working Party on Phytosanitary Regulations**

The 53rd meeting of the Working Party on Phytosanitary Regulations took place in Larnaca, Cyprus on 2014-06-16/19, hosted by the NPPO. There were participants from 17 EPPO countries and observers from the European Commission, the North American Plant Protection Organization and APHIS/United States Department of Agriculture.

Six pests were newly recommended for regulation: *Geosmithia morbida* and *Pityophthorus juglandis* (causal agent and vector of thousand cankers disease of walnut), *Heterobasidion irregulare* (a pathogen of conifers, particularly pines) and three species of invasive plants, two aquatic (*Alternanthera philoxeroides* and *Myriophyllum heterophyllum*) and one terrestrial, (*Microstegium vimineum*). *Bactrocera zonata* and *Dacus ciliatus* were recommended for removal from the A1 to the A2 list because eradication of populations within the EPPO region was no longer considered feasible. Changes were made to the listing of species in the genera *Leucinodes* and *Xanthomonas* to reflect recent developments in taxonomy. For similar reasons *Andean potato mild mosaic virus* was added to the A1 list.

A number of other new or revised Standards were approved and then adopted by Council. These included a new series of five Standards produced by the revived Panel on Phytosanitary Inspections. Drafts on consignment and place of production inspections for *Xylella fastidiosa* had already been produced but were not yet ready for adoption. They would be a high priority for 2016, as would revision of the diagnostic protocol for that species. Specifications were agreed for three standards on phytosanitary measures relating to potatoes: managing risks from movement of soil with potatoes, potato cyst nematodes, and zebra chip.

Amendments to diagnostic protocols and to PM 6/3 (list of biological control agents widely used in the EPPO region) were made by the agreed fast track process. Specifications were agreed for a Decision Support Scheme for import and release of non-indigenous invertebrate biological control agents of plant pests. Also on biological control agents, plans were presented for the workshop on regulation and evaluation of biological control agents to be held in Budapest in November, organised jointly with a number of other organisations. A programme for that workshop is now available on the EPPO website.

Priorities for PRA in 2016 were agreed to be pospiviroids, *Lycorma delicatula, Meloidogyne mali,* and a review of the EFSA opinion on soil and growing medium as a basis for measures against soil borne *Phytophthora* species. An Expert Working Group will also be convened for developing a Standard for a National Regulatory Control System against *Popillia japonica.*

The Working Party discussed the maintenance and purpose of the Alert List and the process followed for deleting pests. A survey on the use of different PRA schemes was agreed and circulated. NPPOs were also encouraged to develop databases of imports in order to assist with PRA production and the identification of emerging trades which should be subject to assessment.

Difficulties were encountered in setting appropriate buffer zones for two pests newly recommended for regulation and the Working Party concluded that research on pest spread (including modelling) should be encouraged and that risk managers and risk assessors should agree some principles concerning how recommendations for buffer zones are developed. This will be one of the issues to be considered at a joint EPPO - EFSA Workshop on Modelling, planned for December 2016.

Other items considered included ways of collating and making available expertise on pest eradication, and how best to acknowledge the contribution of national experts to the authorship of EPPO Standards.

An “EPPO Study on Wood Commodities (other than round wood, sawn wood and manufactured wood items)” was carried out in order to make progress in addressing risks from the increasing movement of large quantities of woodchips etc. for biofuel and other purposes. It classifies commodities according to the processes to which they have been subjected and an expert judgement on the likely residual risk as a pathway for different types of pests. More information is needed on the real nature of material of being imported and moved; data from Customs codes does not necessarily give a good indication of the level of risk. NPPOs were encouraged to gather and share data on movements of such material, using the classifications in the Study as a basis.

Finally, the Working Party and Council continued to encourage prompt reporting of significant new pest findings from all member countries through EPPO’s online system.

Standards adopted in 2015

*• General Phytosanitary Measures (series PM1)*

*Revision of PM 1/2, by*

*- addition of the following pests to the List of pests recommended for regulation:*

*- Pests absent from the region (A1): Andean potato mild mosaic virus (APMMV),* Leucinodes africensis*,* L. rimavallis *and* L. pseudorbonalis

*- Pests present in the region (A2):* Geosmithia morbida *and* Pityophthorus juglandis *(causal agent and vector of thousand cankers disease),* Heterobasidion irregulare, Xanthomonas perforans, X. euvesicatoria *and* X. gardneri, *and three invasive plant species* Alternanthera philoxeroides, Myriophyllum heterophyllum and Microstegium vimineum.

*- transfer from the A1 to the A2 List:* Bactrocera zonata *and* Dacus ciliatus

*- deletion of* Xanthomonas axonopodis *pv.* vesicatoria

*• Phytosanitary Procedures (series PM3)*

*Trees of* Malus, Pyrus, Cydonia, *and* Prunus *spp. - Inspection of places of production*

*Consignment inspection of seed of* Solanum lycopersicum

*Consignment inspection for* Anoplophora chinensis *and* A. glabripennis

*Vegetable plants for planting under protected conditions - Inspection of places of production*

*Consignment inspection of seed and grain of cereals*

*• Diagnostics (series PM7)*

Spodoptera littoralis, Spodoptera litura, Spodoptera frugiperda, *and* Spodoptera eridania

Phytophthora lateralis

*ELISA tests for viruses*

*Electron microscopy in diagnosis of plant viruses*

*• National Regulatory Control Systems (series PM9)*

Parthenium hysterophorus

*• Withdrawal of EPPO Standards dealing with Methyl bromide fumigation*

*Standards PM 3/1, PM 3/24, PM 3/3, PM 3/5, PM 3/6, PM 3/8, PM 3/9, PM 3/11, PM 3/12, PM 3/13, PM 3/14, PM 3/15, PM 3/16, PM 3/19, PM 3/20, PM 10/3, PM 10/5, PM 10/7, PM 10/11, PM 10/12.*

**International phytosanitary issues**

There were three meetings of the EPPO CPM Affairs Panel during 2015, and strong participation from the EPPO region in CPM itself and in its subsidiary bodies. EPPO was pleased to have the opportunity at CPM to present aspects of its work on diagnostics in special topic and side sessions.

The EPPO region hosted the Expert Working Group on the concept of a commodity standard, in Edinburgh (GB), in July. Two topic suggestions related to possible commodity standards were developed and submitted by EPPO. A discussion paper on priority pest lists was prepared in conjunction with NAPPO and has been circulated prior to the TC.

The proposed International Year of Plant Health has been presented to the EPPO Council and received strong endorsement. EPPO is starting to consider how it can best contribute, if the IYPH is confirmed.

The following nominations were agreed by EPPO Council, for the European region:

* *Mr Corné van Alphen (NL) as Bureau member from 2016 (second term of two years)*
* *Mr Nevzat Birisik (TR) as Standards Committee replacement member from 2016*
* *Ms Olga Lavrentieva (EE) as a member of the Standing Body on Dispute Settlement*
* *Ms Clara Pacheco (FR) as an alternate for the Standing Body on Dispute Settlement*
* *Mr Federico Sorgoni (IT) as member of the National Reporting Obligations Advisory Group*

A short contract for EPPO to provide IT services to the IPPC Secretariat enabled work on issues of common interest. These included resolution of the technical obstacles to use of a single pest reporting system through which NPPOs can notify a new pest finding to the RPPO and IPPC at the same time.

Finally there were a number of issues this year with the timing and organisation of the IPPC Regional Workshop for Eastern and Central Europe and Central Asia, which has previously been run in collaboration between IPPC, FAO Regional Office and EPPO. It is hoped that these can be resolved for 2016 through discussion between the Secretariats.

**Other projects and activities**

Q-bank

EPPO continues discussions with the Netherlands and potential funders on the future of the Q-bank database. A survey of the 75 diagnostic laboratories in EPPO’s network showed that most of them are aware of Q-bank and make regular use of it, particularly for sequence data, barcoding protocols and information on where to find biological material.

EPPO Codes

Over 60,000 species of pests and hosts are covered by the EPPO Code system, and about 2,000 new codes are added each year. EPPO Codes are now free to users, but costs for adding new codes will need to be recovered in future. Adding codes can be very quick, or can take a significant amount of researching if there are changes needed in a particular taxonomic group. During 2015 a clear distinction was introduced into the database between codes which have a place in the taxonomic hierarchy and non-taxonomic or agronomic codes, such as “leafy herbs” or “seed potatoes”, which are used by the crop protection industry. This distinction will help to ensure that the codes continue to meet the needs of existing users, while also being suitable for new uses. For some uses only taxonomic codes are wanted, and if that is the case the non-taxonomic codes can now be screened out. The EPPO Panel on Harmonisation of Data has been given responsibility for oversight of the non-taxonomic codes and any requests for additions to these.

Euphresco

The Euphresco research co-ordination network has been hosted by EPPO since June 2014, when Mr Baldissera Giovani took up a two year appointment as Co-ordinator. Euphresco’s strength has since been demonstrated by:

* 31 partners confirmed from 24 countries - 16 of those partners are NPPOs
* Each partner pays at least 3000€ p.a. to cover the costs of running the network
* Partners have indicated that 1.2M€ is available for projects in 2015
* 18 topics are still under consideration for 2015 funding (from an initial list of 60 suggestions)
* Network Management Group of 7 partners
* Governing Board held immediately after the EPPO Council meeting
* Network now extends beyond the EPPO Region

The topics still under consideration are shown in appendix 2.

EU Minor Uses Co-ordination Facility

Since April 2015, EPPO has been host to the EU Minor Uses Co-ordination Facility, and its first Co-ordinator, Mr Jeroen Meeussen, started work in September. The Facility is funded initially by the European Commission, France, Germany and the Netherlands. Its work is closely aligned with work which EPPO has carried out in support of minor uses, such as the production of extrapolation tables for crop safety and efficacy, and it will also be building links with equivalent initiatives in other parts of the world.

**Appendix 1 - EPPO Calendar 2015 and 2016**

2015

**I Executive Committee / Comité Exécutif**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Executive Committee/Comité Exécutif | 04-21/22 | Paris |
| 2. | Executive Committee/Comité Exécutif | 09-21 | Riga |

**II Council/ Conseil**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Council/Conseil | 09-22/23 | Riga |
| 2. | Council Colloquium/Colloque du Conseil | 09-24 | Riga |

**III Workshops and Conferences / Ateliers et Conférences**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | IPPC Regional Workshop / Atelier régional CIVP\* | 09-07/10 | Moscow |
| 2. | Workshops for Heads of laboratories and Q-collect project /  Ateliers pour responsables de laboratoires et projet Q-collect | 09-08/11 | Rome |
| 3. | Workshop on Regulation of Biological Control Agents | 11-23/24 | Budapest |
| 4. | Conference on Diagnostics & TESTA project /  Conférence sur le diagnostic et projet TESTA | 12-02/04 | Angers (FR) |

**IV Working Parties/ Groupes de travail**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Plant Protection Products / Produits phytosanitaires | 05-27/29 | York (GB) |
| 2. | Phytosanitary Regulations / Réglementation phytosanitaire | 06-16/19 | Cyprus |

**V Panels and Expert Working Groups/ Panels et groupes d'experts**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | CPM Affairs / Relations avec la CMP | 01-27/28 | Paris |
| 2. | Diagnostics in nematology / Diagnostic en nématologie | 02-02/03 | Paris |
| 3. | Harmonization of data on plant protection products (EPPO Codes) / Harmonisation des données sur les produits phytosanitaires (Codes OEPP) | 02-17/19 | Braunschweig (DE) |
| 4. | Herbicides-PGRs / Herbicides-Régulateurs de croissance | 02-23/25 | Paris |
| 5. | General Standards/ Normes générales pour l’évaluation biologique | 03-09/11 | Madrid |
| 6. | Quarantine Pests for Forestry / Organismes de quarantaine forestiers | 03-09/11 | Paris |
| 7. | Diagnostics in Entomology / Diagnostic en entomologie | 03-17/19 | Rome |
| 8. | Phytosanitary measures / Mesures phytosanitaires | 03-24/26 | Paris |
| 9. | CPM Affairs / Relations avec la CMP | 04-08/10 | Paris |
| 10. | EWG on extrapolation tables/ Groupe d'experts sur les tableaux d’extrapolation | 04-13/15 | Bologna (IT) |
| 11. | EWG for PRA - *Alternanthera philoxeroides* and *Myriophyllum heterphyllum* | 04-20/24 | Paris |
| 12. | Panel on Invasive Alien Plants / Panel sur les plantes exotiques envahissantes | 05-05/07 | Paris |
| 13. | Phytosanitary measures for potato /  Mesures phytosanitaires pour la pomme de terre | 05-19/21 | Kleinmachnow (DE) |
| 14. | CPM Affairs / Relations avec la CMP | 09-01/04 | Hnanice (CZ) |
| 15. | Resistance to PPPs / Resistance concernant les produits phytosanitaires | 09-16/17 | Harpenden (GB) |
| 16. | Phytosanitary measures / Mesures phytosanitaires | 10-06/08 | Bologna (IT) |
| 17. | Diagnostics in Bacteriology / Diagnostic en bactériologie | 10-20/22 | Copenhagen |
|  | EWG for PRA - soil | 11-03/04 | Paris |
| 18. | Plant Protection information/ Information en protection des végétaux | 11-12/13 | Paris |
| 19. | Panel on Diagnostics in Mycology / Panel OEPP sur le Diagnostic en Mycologie | 11-16/18 | Paris |
| 20. | Fungicides-Insecticides / Fongicides Insecticides | 11-17/19 | Zagreb (HR) |
| 21. | Biological control agents (EPPO/IOBC) /  Agents de lutte biologique (OEPP/OILB) | 11-26/27 | Budapest |
| 22. | Colorado beetle/ Doryphore | 12-01/02 | Jersey |
| 23. | EWG for PRA / Groupe d'experts pour l'ARP | 12-07/10 | Paris |
| 24. | Phytosanitary Procedures / Procédures phytosanitaires | 12-09/10 | Paris |

\* - organised by IPPC Secretariat

2016

**I Executive Committee / Comité Exécutif**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Executive Committee/Comité Exécutif | 04-19/20 | Paris |
| 2. | Executive Committee/Comité Exécutif | 09-19 | Paris |

**II Council/ Conseil**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Council/Conseil | 09-20/21 | Paris |

**III Workshops and Conferences / Ateliers et Conférences**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Regional Workshops on draft ISPMs? | ?? | ?? |
| 2. | Workshop on Leaf-Wall-Area dose expression / Atelier sur l’Expression de la dose tenant compte de la surface de haie foliaire à traiter | 10-18/20 | Vienna |
| 3. | Workshop for Phytosanitary Inspectors / Atelier pour inspecteurs phytosanitaires | 11- ?? | UK |
| 4. | EPPO-EFSA Conference on modelling/ Conférence OEPP EFSA sur la modelisation | 12- 13/15? | Parma (IT) |

**IV Working Parties/ Groupes de travail**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Plant Protection Products / Produits phytosanitaires | 05-24/26 | Sweden |
| 2. | Phytosanitary Regulations / Réglementation phytosanitaire | 06-14/17 | Belgium |

**V Panels and Expert Working Groups/ Panels et groupes d'experts**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | CPM Affairs / Relations avec la CMP | 01-13/14 | Paris |
| 2. | Diagnostics and Quality Assurance / Diagnostics et assurance qualité | 01-19/21 | Paris |
| 3. | Herbicides-PGRs / Herbicides-Régulateurs de croissance | 02-09/11 | Vienna |
| 4. | Phytosanitary measures for potato / Mesures phytosanitaires pour la pomme de terre | 02-16/18 | Paris |
| 5. | Quarantine Pests for Forestry / Organismes de quarantaine forestiers | 02-23/25 | Bosnia Herzegovina |
| 6. | Phytosanitary measures / Mesures phytosanitaires | 03-01/03 | Paris |
| 7. | Harmonization of data on plant protection products (EPPO Codes) / Harmonisation des données sur les produits phytosanitaires (Codes OEPP) | 03-07/09 | Paris |
| 8. | General Standards/ Normes générales pour l’évaluation biologique | 03-09/11 | Paris |
| 9. | Diagnostics in virology and phytoplasmology /  Diagnostic en virologie et phytoplasmologie | 03-22/24 | Rome |
| 10. | EWG on extrapolation tables/ Groupe d'experts sur les tableaux d’extrapolation | 04-20/22 | Paris |
| 11. | CPM Affairs / Relations avec la CMP | 04-26/28 | Paris |
| 12. | Panel on Invasive Alien Plants / Panel sur les plantes exotiques envahissantes | 06-01/03 | Antalya |
| 13. | CPM Affairs / Relations avec la CMP | 09-06/09? | ? |
| 14. | Diagnostics in nematology / Diagnostic en nématologie | 09-06/08 | Vienna |
| 15. | Resistance to PPPs / Resistance concernant les produits phytosanitaires | 09-14/16 | Paris |
| 16. | Phytosanitary measures / Mesures phytosanitaires | 10-04/06 | Israel |
| 17. | Biological control agents (EPPO/OIBC) / Agents de lutte biologique (OEPP/OILB) | 10-11/13 | Paris |
| 18. | Diagnostics and Quality Assurance / Diagnostics et assurance qualité | 10-18/20 | Algeria |
| 19. | Fungicides-Insecticides / Fongicides Insecticides | 11-22/24 | Paris |
| 20. | Diagnostics in Entomology / Diagnostic en entomologie | 11-29/12-01 | Paris |
| 21. | Colorado beetle/ Doryphore | 12-06/07 | Guernesey |
| 22. | Phytosanitary Inspections / Inspections phytosanitaires | 12-13/14 | Switzerland |

**5 EWG – Dates to be arranged/dates à fixer**

**Appendix 2 - research topics under consideration for funding via Euphresco in 2015**

**2015 Euphresco research topics**

Funding phytosanitary research projects is one of the activities ensured by the Euphresco network. In the past months its members have worked to shortlist 62 national priorities to 18 research topics; the research projects that will start in the next months will allow trans-national cooperation on focussed phytosanitary problems, will develop knowledge and propose solutions that could be rapidly applied to the field.

Below is the list of the 18 Euphresco research topics. Please note that certain topics could be discarded (i.e. eventually not funded) because of limited resources available.

1. The biology and epidemiology of *Candidatus* Liberibacter solanacearum and potato phytoplasmas and their contribution to risk management in potato and other crops.
2. Identification and early detection of *Cryphonectria parasitica* and *Ceratocystis platani* occurring on trees in Europe.
3. VirusCollect: building an international network of reference collections for regulated and other important plant viruses and viroids.
4. Assessment of *Dickeya* and *Pectobacterium* spp. on vegetables and ornamentals.
5. Diagnostic tools for the detection and identification of *Ralstonia solanacearum* directly on plant tissues.
6. Consensus detection and identification protocol for *Acidovorax citrulli* on cucurbit seeds.
7. Harmonized protocol for monitoring and detection of *Xylella fastidiosa* in its host plants and its vectors.
8. Determine different plum pox virus strains in wild hosts and in stone fruit cultivars with different susceptibility as a part of improved control and surveillance strategies.
9. Ringtest for improved *Potato virus Y* strain detection.
10. Enforcement of phytosanitary legislation on courier services.
11. Development and implementation of early detection tools and effective management strategies for invasive non-European and other selected fruit fly species of economic importance.
12. Nematology: potato cyst nematodes.
13. Tree borers: risk assessment, risk management and preparedness for emerald ash borer and bronze birch borer.
14. Tracking vectors of bacteria and phytoplasmas threatening Europe’s major crops.
15. Identifying and assembling data for pest risk analysis, contingency planning and modelling pest invasions.
16. The application of Next-Generation Sequencing technology for the detection and diagnosis of non-culturable organisms.
17. MULTIPLEX – multi-lure and multi-trap surveillance for invasive tree pests.
18. Building capability for frontline national inspectorates.

For any enquiry about the research topics, their detailed content, the funders’ consortia or more generally about Euphresco please contact: [bgiovani@euphresco.net](mailto:bgiovani@euphresco.net)

1. European Crop Protection Association [↑](#footnote-ref-2)