



DP DRAFTING GROUP: CONFIRMATION OF AUTHORS FOR GENUS *CERATITIS* (2016-001)

(Prepared by IPPC Secretariat)

1. Background

[1] The draft diagnostic protocol (DP) for Genus *Ceratitis* (2016-001), with discipline lead Ms Juliet GOLDMISTH, is advancing in its development by the DP drafting group. Currently, the composition of the [drafting group](#) is:

- Lead author: Mr Norman Benjamin BARR (USA)
- Co-author: Ms Beatriz Sabater MUNOZ (Spain)
- Co-author: Mr Deuk-Soo CHOI (South Korea)

[2] Additional experts were contacted to be part of this drafting group, as co-authors, as outline in the TPDP working procedures. Two experts from The Royal Museum for Central Africa, Belgium were contacted. Their CVs are provided as attachments to this document.

[3] These experts are:

- Mr Massimiliano Virgilio
- Mr Marc Frans Elisabeth DE MEYER

2. Recommendations to the TPDP:

[4] The TPDP is invited to:

1) *confirm* the selection of the above new co-authors for the DP drafting group Genus *Ceratitis* (2016-001) (CVs attached).

CURRICULUM VITAE

Massimiliano Virgilio

Molecular biologist, entomologist. Research on molecular taxonomy, population genetics, phylogeny and ecology of Tephritid fruit flies (Diptera, Tephritidae). Post-doctoral Researcher at the [Joint Experimental Molecular Unit](#) of RMCA-RBINS. Subject Editor of the Bulletin of Entomological Research. Subject Editor of Insects.

1. Personalia

Current position: **Post-doctoral Researcher**

Institution: **Royal Museum for Central Africa**

Corresponding Address: **Leuvensesteenweg 13, B-3080 Tervuren, Belgium**

Phone: **+32 (0) 27695626**

email: **massimiliano.virgilio@africamuseum.be**

2. Research positions

2014- : Post-doctoral Researcher - Royal Museum for Central Africa (RMCA), Joint Experimental Molecular Unit (JEMU)

2006-2013: Post-doctoral Researcher - RMCA, Department of Biology, Section Entomology

2004-2005: Post-doctoral Researcher - University of Bologna, Department of Evolutionary and Experimental Biology, Centre of Research for Environmental Sciences

2000-2003: PhD student - University of Bologna, Department of Evolutionary and Experimental Biology, Centre of Research for Environmental Sciences

1997-2000: Research assistant - University of Pisa - Department of Biology, Marine Biology and Ecology Unit

3. Education

2003: PhD in Environmental Sciences, University of Bologna. Thesis entitled “Genetic biodiversity in *Hediste diversicolor* (Polychaeta: Nereididae): phylogeographic patterns and adaptation to environmental pollution”

1996: M.Sc equivalent in Biological Sciences with honours, University of Pisa. Thesis entitled “Spatial and temporal patterns of species distribution on a sublittoral rocky cliff in the Ligurian Sea”

4. Research Projects

Promoter of currently ongoing projects on:

- African agro-ecology: [Insect Service and Biodiversity in Agroecological Farming \(ISeBAF\)](#). Funding: BRAIN-BE 2.0 – Belgian Research Action Through Interdisciplinary Networks (2018 -2023), ‘Thematic Projects’. Research network: RMCA, Royal Belgian Institute of Natural Sciences, Université Libre de Bruxelles, Sokoine University of Agriculture (United Republic of Tanzania).
- African fruit fly pest management: [DISPEST: Redefining DISpersal potential for adequate fruit fly PEST management](#). Funding: Framework agreement 2019 –2023 RMCA-Directorate-general Development Cooperation (DGD). Research network: RMCA, Stellenbosch University

(Republic of South Africa, RSA), Citrus Research International (RSA), Eduardo Mondlane University (Republic of Mozambique).

Co-promoter of currently ongoing projects on:

- Integrated pest management of European horticulture: FF-IPM: In-silico boosted, pest prevention and off-season focus IPM against new and emerging fruit flies, Funding: European Union's Horizon 2020 research and innovation programme (H2020 EU, contract n. 818184) 2019-2023. Research network: 21 European and extra-EU Research Partners.
- African agro-ecology: AGROVEG: Agroecological methodology in VEGetable crops, Funding: Framework agreement 2019 –2023 RMCA-Directorate-general Development Cooperation (DGD). Research network: RMCA, Sokoine University of Agriculture (United Republic of Tanzania), Eduardo Mondlane University (Republic of Mozambique).

Past projects

- 2017-2020: Fruit fly microbiomics: Comparative Microbiomics of African Fruit Flies (CMAFF). Funding: International Atomic Energy Agency (IAEA), Vienna. Coordinated Research Project D4.10.24, Technical Contract No: 2087. Role: promoter.
- 2015-2018: Symbiont Diversity and Feeding Strategies in Insect Agricultural Pests (SYMDIV). Funding: BRAIN-be (BR/154/PI/SYMDIV). Role: co-promoter.
- 2014-2017: Detection methods for fruit flies of economic significance to fruit and vegetable production in African and Indian Ocean Islands (ERAFRICA - FRUITFLY). Funding: European Union & Belgian Science Policy (BELSPO, FRUITFLY BL/37/erafrica01). Role: collaborator.
- 2013-2018: North-South-South Project (funded by Belgian Directorate-General for Development Cooperation through framework agreement with RMCA) “Spatio-temporal population dynamics of fruit fly populations and optimization of IPM program in Manica Province, Mozambique” (2013-2018). Role: collaborator.
- 2011-2014: Development of a web based multi entry key for fruit infesting Tephritidae (Diptera) from Africa. Funding: International Atomic Energy Agency (IAEA), Vienna (contract n. 16859). Role: co-promoter
- 2010-2015: Development of Molecular and Morphological Diagnostics for Taxonomic and Population Genetic Characterization of African Fruit Fly Pests. Funding: International Atomic Energy Agency (IAEA), Vienna (contract n. 16032). Role: co-promoter.
- 2010-2015: Resolution of cryptic species complexes of tephritid pests to overcome constraints to SIT application and international trade. Funding: Food and Agriculture Organisation of the United Nations (FAO-UN) International Atomic Energy Agency (IAEA), Vienna (Coordinated Research Project D41023, 1729). Role: collaborator
- 2008-2012: Development of integrated pest management for fruit flies in Tanzania. Funding: Belgian Directorate-General for Development Cooperation. Role: collaborator

5. Research at the Royal Museum for Central Africa (RMCA)

MV is currently a post-doctoral scientist of the Joint Experimental Molecular Unit (JEMU, <http://jemu.myspecies.info>), an integrated research infrastructure funded by BELSPO (program for strengthening research capacity of Federal Scientific Institutions) and supported by the Royal Museum for Central Africa and the Royal Belgian Institute of Natural Sciences. The unit supports research on natural history collections in the fields of molecular systematics, phylogeny and population genetics via omics technologies including whole genome sequencing / resequencing, genome skimming and reduced representation sequencing.

6. Scientific advisor and expertise

2019: National Expert EFSA (European Food Safety Authority) to support the fact-finding mission on the *B. dorsalis* outbreak in Campania, Italy.

7. Scientific supervision and training sessions

2018: training sessions for African scientists, seminars on morphological identification, molecular taxonomy and DNA barcoding of Tephritid fruit flies (Sokoine University of Agriculture, Morogoro, Tanzania, 5-16 Nov 2018). Training supported by the Belgian Development Cooperation.

2016: training sessions for the personnel of the Regional Reference Lab of Bobo-Dioulasso (Burkina Faso, 17-21 Oct 2016). Seminars on morphological identification, molecular taxonomy and DNA barcoding of Tephritid fruit flies. Training supported by the European Union, the French Development Cooperation & the Economic Community of West African States.

2016: Workshop organization. "New methods for old DNA" (Royal Belgian Institute of Natural Sciences, Brussels, 2-3 June 2016). Workshop organised by the Joint Experimental Molecular Unit of RMCA and RBINS and financed by the Belgian Network for DNA barcoding (BeBOL).

2015: training sessions for African scientists, seminars on morphological identification, molecular taxonomy and DNA barcoding of Tephritid fruit flies (Sokoine University of Agriculture, Morogoro, Tanzania, 4-15 May 2015). Training supported by the Belgian Development Cooperation.

2015: Workshop organization. "The TASSEL software package" (Trait Analysis by Association, Evolution and Linkage). Brussels, Royal Belgian Institute of Natural Sciences, 15-17 September 2015. Workshop financed by the Belgian Network for DNA barcoding (BeBOL).

2014: training sessions for the "Regional Training Course on Taxonomy and Identification of Fruit Fly Pest Species Exotic to the Balkans and the Eastern Mediterranean" (Tervuren, RMCA, 13 - 17 October 2014) supported by the International Atomic Energy Agency (IAEA).

2013: training sessions for African scientists, seminars on morphological identification, molecular taxonomy and DNA barcoding of Tephritid fruit flies (Tervuren, RMCA, September 2013: training supported by the Belgian Development Cooperation).

2013: promoter of a MSc Thesis entitled "Molecular and morphological differentiation within the African *Ceratitis* FAR species complex (Diptera: Tephritidae)". University of Antwerp, Faculty of Science, Department of Biology, Evolutionary ecology group.

2012: supervision of a six weeks training in "molecular techniques applied to African fruit flies" (Dr. Yasinta Beda, Sokoine University of Agriculture, Morogoro, Tanzania). Project "Integrated pest management for fruit flies in Tanzania", 2012 annual programme of the cooperation agreement between the Belgian Development Cooperation and the RMCA (collaboration with SUA).

2011: training sessions for African scientists, seminars on molecular taxonomy and DNA barcoding of Tephritid fruit flies (Tervuren, RMCA, September 2011: training supported by the Belgian Development Cooperation).

2009: training sessions for African scientists, seminars on molecular taxonomy and DNA barcoding of Tephritid fruit flies (Tervuren, RMCA, September 2009: training supported by the Belgian Development Cooperation).

8. Seminars and lectures

- 2014:** invited speaker at the webseminar "Identifying insects with incomplete DNA barcode libraries, a pragmatic approach towards workable solutions" organised by the Animal and Plant Health Inspection Service (APHIS) of the United States Department of Agriculture (USDA) (July 2014).
- 2014:** keynote speaker at the 9th International Symposium on Fruit Flies of Economic Importance (Bangkok, 12-16 May 2014).
- 2013:** seminar "A multi-entry identification key for African frugivorous tephritids", E. Mondlane University (16 December 2013, Maputo, Mozambique).
- 2012:** invited speaker at the Third European Congress for the Barcode of Life (Brussels, 17-21 September 2012).
- 2010:** seminars on population genetics and DNA barcoding of Tephritid fruit flies (Sokoine University of Agriculture – Morogoro, Tanzania: Faculty of Science, course CS601, Entomology)
- 2008:** invited speaker at the African regional workshop of the Consortium of the Barcode of Life, Abuja (Nigeria) 22-27 October
- 2002-2005:** seminars for the course of Applied Ecology (faculty of Environmental Sciences, University of Bologna) in the subject "Population genetics of estuarine invertebrates".

9. Editorial activity

Editor of the *Bulletin of Entomological Research* (I.F. = 1.81).

Editor of *Insects* (IF = 2.14).

MV regularly acts as manuscript reviewer for a wide range of international scientific journals.

10. Scientific Publications on International Journals with IF

List and hyperlinks: https://www.africamuseum.be/en/staff/896/publication_view

Example of publications

Virgilio, M., Daneel, J.H., Manrakhan, A., Delatte, H., Meganck, K. & De Meyer, M. 2018. 'An integrated diagnostic setup for the morphological and molecular identification of the Ceratitis FAR complex (C. ananæ, C. fasciventris, C. rosa, C. quilibicci, Diptera, Tephritidae)'. *Bulletin of Entomological Research*. I.F. 1.72.

Virgilio, M., Manrakhan, A., Delatte, H., Daneel, J.H., Mwatawala, M., Meganck, K., Barr, N. & De Meyer, M. 2017. 'The complex case of Ceratitis cosyra (Diptera, Tephritidae) and relatives. A DNA barcoding perspective'. *Journal of Applied Entomology*. DOI: 10.1111/jen.12379. URL: <http://dx.doi.org/10.1111/jen.12379> I.F. 1.517.

Virgilio, M. 2016. 'Identification tools for African frugivorous fruit flies (Diptera: Tephritidae)'. In: Ekesi S, Mohamed S, De Meyer M (eds), *Fruit fly research and development in Africa - towards a sustainable management strategy to improve horticulture*. New York : Springer, pp. 19-33. (PR) DOI: 10.1007/978-3-319-43226-7_2

De Meyer, M., Mwatawala, M., Copeland, R.S. & Virgilio, M. 2016. 'Description of new Ceratitis species (Diptera: Tephritidae) from Africa, or how morphological and DNA data are complementary in discovering unknown species and matching sexes'. *European Journal of Taxonomy* 233: 1-23. DOI: 10.5852/ejt.2016.233. URL: <http://dx.doi.org/10.5852/ejt.2016.233> I.F. 0.873.

Van Cann, J., Virgilio, M., Jordaens, K. & De Meyer, M. 2015. 'Wing morphometrics as a possible tool for the diagnosis of the Ceratitis fasciventris, C. ananæ, C. rosa complex (Diptera, Tephritidae)'. De Meyer, M., A. Clarke, T. Vera & J. Hendrichs (eds), *ZooKeys* 540, special issue : Resolution of Cryptic Species Complexes of Tephritid Pests to Enhance SIT Application and Facilitate International Trade : 489-506. (PR).

Virgilio, M., White, I. & De Meyer, M. 2014. 'A set of multi-entry identification keys to African frugivorous flies (Diptera, Tephritidae)'. ZooKeys 428: 97-108. DOI: 10.3897/zookeys.428.7366. URL: <http://www.pensoft.net/myinvoice.php?OID=5410> I.F. 0.864.

11. Languages

English: fluent reading, writing and conversation skills

French: good reading, writing and conversation skills (SELOR certificate art. 7 level 1/A; Common European Framework of Reference: C1).

Italian: native speaker

CURRICULUM VITAE

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EDUCATION

- PhD section Zoology
1990 University of Antwerp (Belgium)
- MSc section Biology
1983 University of Antwerp (Belgium)
- BEd section Biology
1983 University of Antwerp (Belgium)
- Post graduate Tropical Medical Biology
1984 Institute of Tropical Medicine, Antwerp (Belgium)

RESEARCH INTERESTS AND ACTIVITIES

- Systematics and phylogeny: systematic and phylogenetic research on Diptera, with emphasis on Tephritidae? Syrphidae and Pipunculidae (Diptera). Specific ongoing activities:
 - systematic revision of several ceratitidine genera (Tephritidae)
 - phylogeny of Afrotropical Ceratitidini (Tephritidae)
 - molecular characterization and population genetics of Afrotropical fruit fly pests
 - evolution of host choice in fruit flies
 - taxonomic revision of several eristaline genera (Syrphidae)
- Faunistics, biogeography and biodiversity: emphasis on Pipunculidae (worldwide), Tephritidae and Syrphidae (Afrotropical). Surveys and biogeographical analysis of Diptera fauna of specific biotopes in East Africa. Specific ongoing activities:
 - analysis of distribution patterns of *Ceratitis* (Tephritidae) in Africa
 - monitoring, surveillance and climatic modelling of African tephritid fruit fly pests
 - invasion history of African tephritid fruit fly pests
 - host plant specificity for dacine fruit flies
 - fauna of Tephritidae in East Africa
- Database development: Afrotropical insects with emphasis on particular insects groups in Africa. Specific ongoing activities:
 - world catalogue of Pipunculidae
 - taxon database of Coleoptera in collections of Africamuseum
 - biodiversity database Dacini (Tephritidae) of Africa

OCCUPATION

PRESENT OCCUPATION

- Since January 2014: Head of the Invertebrates Unit at the Royal Museum for Central Africa (new organigram and re-structuring of units and sections. Previously (January 1998 – December 2013): Head of the Entomology Section at the Royal Museum for Central Africa)
Since January 2013: Acting Head of the Biology Department at the Royal Museum for Central Africa.

Occupation: general administration and management of the Unit and Department and projects associated with Unit/Department. Research biodiversity and systematics related topics on Diptera.

Other duties: member directive board; member committees museum management (permanent exhibitions, collection management, renovation & development co-operation, consultation (as acting member)); co-supervisor Joint Experimental Molecular Unit & Barcode Facility for Organisms and Tissues of Policy Concern; editorial duties. Supervision undergraduate and graduate students (foreign and Belgian).

PAST OCCUPATIONS

- November 1996-December 1997: long term expert and co-ordinator, 'Taita Hills project: biodiversity and habitat fragmentation' (project sponsored by VIIR: Flemish Interuniversity Council. Employed by University of Antwerp, based at National Museums of Kenya).
Occupation: co-ordination and management of project. Research on biodiversity of selected insect groups at Taita hills. Teaching MSc programme Animal Ecology at Kenyatta University. Continuing entomological research.
Other duties: collection management Diptera section. Secretary Journal of East Africa Natural History committee.
- July-October 1996: Secretary at Belgian Embassy in Nairobi Kenya, Development Co-operation Section (as short time replacement, on local conditions).
Occupation: general secretarial duties, in charge of scholarships programme.
- February 1993-June 1996: Senior Research Scientist, National Museums of Kenya, Dept Invertebrate Zoology (from February 1993 till December 1995 as technical assistance within co-operation scheme between Governments of Kenya and Belgium; from January 1996 onwards on local terms).
Occupation: research systematics, phylogeny, zoogeography and biodiversity of Diptera. Curatorial activities entomological collection of National Museums of Kenya. Departmental database manager. Fundraising for and general strengthening of departmental and museum activities.
Other duties: Acting Head of Department (during temporary absences of HOD), member Centre for Biodiversity steering committee, secretary Natural Collections committee, secretary Journal of East Africa Natural History committee, assistance teaching identification courses (in collaboration with CAB/IIIE and ICIPE), identification services for the public.
- January 1990 - January 1993: Lecturer Dept of Zoology, Moi University, Eldoret, Kenya (as technical assistance within co-operation scheme between Governments of Kenya and Belgium).
Occupation: teaching undergraduate level (zoology, forestry and wildlife management students) and postgraduate level (MPhil entomology and parasitology students); continuing entomological research, mainly on Diptera.
Other duties: supervision BSc and MPhil theses, examiner PhD theses, administrative functions within department and faculty of Sciences (representative of Faculty of Sciences at board meetings of Faculty of Wildlife and Forestry, postgraduate committee, timetable committee, staff shortlisting committee).
- September 1987 - January 1990: Permanent collaborator at the dept Entomology, Koninklijk Belgisch Instituut voor Natuurwetenschappen (KBIN, Royal Belgian Institute for Natural Sciences) Brussel, Belgium.
Occupation: Taxonomic, phylogenetic and zoogeographical research on Diptera, specifically on Pipunculidae (preparation PhD dissertation).
Other duties: co-editor catalog of Belgian Diptera, faunal surveys Diptera in Belgium, general ecological research Diptera Belgium. Identification services for the public.
- September 1985 - August 1987: Secondary School teacher at government school (Madiba Secondary School, Mahalapye) in Botswana. Employed by the Government of Botswana, and supported by Belgian Government (as volunteer).
Occupation: teaching integrated science (form 1-3) and Cambridge syllabus Human and Social Biology, and Combined Science section Biology (form 4-5). Responsible for equipment biology section, extra-curricular activities like advisor wildlife club.
Other duties: research and collecting Diptera, in collaboration with Serowe Insect Museum and KBIN.

- October 1983 - August 1985: Scientific researcher at the Laboratory for General Zoology, University of Antwerp. Research supported by two successive grants from the IWONL (Institute for the Advancement of Scientific Research in Industry and Agriculture).
Occupation: systematics and general ecological aspects of Diptera, Pipunculidae and Cecidomyiidae.
Other duties: faunistic research on Diptera in Belgium, in collaboration with KBIN. Assisting in practical courses faunistics for BSc students.

RESEARCH PROJECTS/GRANTS (last 10 years)

Research

- Partner BRAIN Thematic Project ISeBAF "Insect Service and Biodiversity in Agroecological Farming" (2020-2023)
- Partner STDF/PG/567 grant (World Trade Organisation) "F³, Fruit Fly Free: Establishment and maintenance of fruit production areas free and under low prevalence of fruit fly pests in southern Africa" (2020-2022)
- Technical Manager H2020 FF-IPM project (EU Grant Nr 818184) "In-silico boosted, pest prevention and off-season focused IPM against new and emerging fruit flies" (2019-2022)
- Promotor North-South-South Project (funded by Belgian Directorate-General for Development Cooperation through framework agreement with RMCA) "AGROVEG: Agroecological methodology in vegetable crops" (2019-2023)
- Collaborator North-South-South Project (funded by Belgian Directorate-General for Development Cooperation through framework agreement with RMCA) "DISPEST: Redefining dispersal potential for adequate fruit fly pest management (Diptera, Tephritidae) (2019-2023)
- Collaborator IAEA (International Atomic Energy Agency) project under Technical Contract 20876 "Comparative microbiomics of African Fruit Flies" (2017-2020)
- Contractor STDF/PPG/567 grant (World Trade Organisation) "Establishment and maintenance of fruit production areas free and under low prevalence of fruit fly pests in southern Africa" (2017-2018)
- Co-ordinator BRAIN-Pioneer Project SYMDIV "Symbiont Diversity and Feeding Strategies in Insect Agricultural Pests" (2016-2018)
- Promotor LifeWatch Roadmap ESFRI Project BopCo "Barcoding Facility for Organisms and Tissues of Policy Concern" (2014-2020)
- Partner ERAfrica Project "Detection methods for fruit flies of economic significance to fruit and vegetable production in Africa and Indian Ocean islands" (2014-2017)
- Co-ordinator FRUITFLYNET (Belspo international networking grants) "monitoring network for fruit flies in Southeast Africa" (2013-2017)
- Collaborator Citrus Research International (South Africa) project "Developmental threshold and critical thermal limits for two *C. rosa* types in South Africa" (2013-2014)
- Promotor North-South-South Project (funded by Belgian Directorate-General for Development Cooperation through framework agreement with RMCA) "Spatio-temporal population dynamics of fruit fly populations and optimization of IPM program in Manica Province, Mozambique" (2013-2018)
- Promotor AGORA project to Royal Museum for Central Africa & Royal Belgian Institute of Natural Sciences: MOLCOL "Ensuring Belgian Natural History Collections for the 22nd Century: towards a joint tissue and DNA collection" (2012-2014)
- Collaborator IAEA (International Atomic Energy Agency) project to Royal Museum for Central Africa: "Development of a web based multi entry key for fruit infesting Tephritidae (Diptera) from Africa." (2011-2014)
- Collaborator Citrus Research International (South Africa) project "Determine the potential global distribution for *Bactrocera invadens* using CLIMEX" (2011-2012)

Curriculum vitae Marc De Meyer

- Collaborator Citrus Research International (South Africa) project “compilation of a fruit fly brochure and development of a rapid molecular identification technique for *Bactrocera invadens*” (2011-2012)
- Co-administrator and partner FWOVlaanderen research network “BeBoL: Belgian network for DNA Barcoding of Life” (2011-2015)
- Leader working groups “FAR complex & *B. cucurbitae*” of IAEA Co-ordinated Research Project “Resolution of Cryptic Species Complexes of Tephritid Pests to Overcome Constraints to SIT Application and International Trade”; Chief Scientific Investigator “Development of Molecular and Morphological Diagnostics for Taxonomic and Population Genetic Characterization of African Fruit Fly Pests” (2010-2015)

MISCELLANEA

* Organisation and participation training courses:

- Regional SADC training workshop on fruit flies: identification, biology, ecology, management strategies and impact assessment, Maputo (Mozambique): 2020 (as lecturer)
- Regional FAO/IAEA training course on Area-wide integrated fruit fly management including Sterile Insect Technique (SIT) and Male Annihilation Technology (MAT) in Africa and Indian Ocean, Réduit (Mauritius): 2019 (as lecturer)
- Regional FAO/IAEA training course on Modern Taxonomy and Identification Tools of Fruit Fly Species in Africa, Cotonou (Benin): 2019 (as lecturer)
- Regional FAO/IAEA training course on fruit fly detection & surveillance and databases & data analysis, Thika (Kenya): 2017 (as lecturer)
- Regional FAO/IAEA training course on identification of non-native tephritid fruit flies of quarantine significance, Seibersdorf (Austria): 2017 (as lecturer)
- Regional Postgraduate Certificate Programme in Sterile Insect Technique for Fruit Fly Management, University of Mauritius, Réduit, Mauritius: 2016 (as lecturer, module fruit fly biology and systematics)
- FAO training course on taxonomy and identification of fruit fly pest species significant to the region, Beirut, Lebanon: 2016 (as lecturer)
- Group Training course on Fruit Fly Taxonomy and Ecology (organized by the Sokoine University of Agriculture, Morogoro Tanzania and the Royal Museum for Central Africa within RAAC framework with Belgian Development Cooperation): 2015, 2018 (as co-organizer)
- Regional FAO/IAEA training course on taxonomy and identification of fruit fly pest species exotic to the Balkans and the Eastern Mediterranean, Tervuren (Belgium): 2014 (as organizer)
- Regional FAO/IAEA training course on taxonomy and identification of fruit fly pest species exotic to the Middle East, Seibersdorf (Austria): 2014 (as lecturer)
- Group Training Course on Fruit Fly Taxonomy, Detection & Management (co-organisatie USDA-APHIS/FAS, RMCA & ICIPE) te Nairobi (Kenya): 2013 (as lecturer)
- Group Training course on Fruit Fly Taxonomy and Ecology (organized by the Royal Museum for Central Africa within RAAC framework with Belgian Development Cooperation): 2009, 2011, 2013 (as organizer)
- Individual training to L. Boussaad of ONSSA/SPV Marrakech (Morocco), funded by individual bursarship of International Atomic Energy Agency (Austria): 2012 (as organizer)
- Regional FAO/IAEA training course on fruit fly surveillance, taxonomy and identification in West Africa, Cotonou (Benin): 2012 (as lecturer)
- Regional FAO/IAEA training course on fruit fly surveillance, taxonomy and identification in the Indian Ocean, St. Pierre (La Réunion): 2012 (as lecturer)

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- Regional FAO/IAEA training course Taxonomia, Ecologia y Control de las Moscas de la Fruta de Importancia Cuarentenaria, Panama City (Panama): 2011 (as lecturer)
- Atelier de Formation sur la Taxonomie de la Mouche des Fruits, Détection & Gestion (co-organisatie USAID, USDA-APHIS/FAS, RMCA & ICIPE) te Nairobi (Kenya): 2010 (as lecturer)
- Regional FAO/IAEA Training course Taxonomia, Ecologia y Control de las Moscas de la Fruta de Importancia Cuarentenaria, Panama City (Panama): 2010 (as lecturer)
- Group Training Course on Fruit Fly Taxonomy, Detection & Management (co-organisatie USDA-APHIS/FAS, RMCA & ICIPE) te Nairobi (Kenya): 2009 (as lecturer)
- Individual training to Mr Abdelaziz Elamin of University of Gezira (Sudan), funded by fellowship of Institute of Higher Education, Sudan: 2008 (as organizer)
- Individual training to Mr S. Mohamed of PPRI-ARC Cairo (Egypt), funded by individual bursarship of International Atomic Energy Agency (Austria): 2007 (as organizer)
- Individual training courses on fruit fly identification, organised by the Royal Museum for Central Africa, within RAAC framework with Belgian Development Cooperation: 2003 (Tanzania, M. Mwatawala), 2005 (Cameroon, Ndzana Abanda; Ivory Coast, Hala N'Klo; Benin, D. Gnavossou; Nigeria, V.Umeh), 2006 (DR Congo, A. Mbala; Senegal, M. Ndiaye; Kenya, F. Khamis) (as organizer)
- Regional FAO/IAEA training course on taxonomy and identification of fruit fly pest species exotic to the Middle East, Seibersdorf (Austria): 2003 (as lecturer)
- United Nations University, Biodiversity Training course Program, organised by Dept Biology, University of Ghent, Belgium (during visit to Royal Museum for Central Africa): 2001, 2002, 2003 (as lecturer)
- East African Training course in Identification of Insects, organised by National Museums of Kenya, Nairobi in collaboration with Natural History Museum, London and International Institute of Entomology, London: 1992 (as lecturer)

* Editorial responsibilities

- editor-in-chief 'Resolution of cryptic species complexes of tephritid pests to enhance SIT application and facilitate international trade' ZooKeys Special Issue 540 (2015)
- co-editor Book 'Fruit Flies Research and Development in Africa – Towards a Sustainable Management Strategy to Improve Horticulture' Springer Verlag (2014-2016)
- co-editor 'DNA barcoding: a practical tool for fundamental and applied biodiversity research', ZooKeys Special Issue 365 (2013)
- subject editor Journal of Insect Science (2012-present)
- subject editor ZooKeys (2016-present)
- editor Journal of East African Natural History (1998-present)
- editor Journal of Afrotropical Zoology (2004-2011)
- member editorial panel Manual of Afrotropical Diptera (2010-present)
- member editorial board International Journal of Tropical Insect Science (2017-present)
- secretary editorial committee of the Journal of the East African Natural History Society and National Museums (1994-1997)

* Boards and committees

- member advisory committee RT 17/4 STATREGO "fyto-sanitair statuut van schadelijke organismen voor planten en plantaardige producten" (ILVO) (2018-2020)
- member scientific committee of CORAF/WE CARD Support Project of the Regional Plan for Control and Monitoring of the Fruit Flies in West Africa (SPRMF) (2016-2019)
- member technical advisory committee Integrated Biological Control Applied Research Programme (EU IBCARP programme) (2015-2019)

Curriculum vitae Marc De Meyer

- chairman steering committee Tephritid Workers of Europe, African and the Middle East (2012-present)
- member International Fruit Fly Symposium Steering committee (2012-present)
- member advisory committee Warsaw Plant Health Initiative (EU REGPOT programme) (2011-2015)
- member Implementation Board Consortium for the Barcode of Life (2008- 2011)
- co-ordinator research Natural Sciences in Renovation Committee (2006- 2012)
- member workgroup Development Cooperation Strategy of the Royal Museum for Central Africa (2006-present)
- member Scientific Council of the Royal Museum for Central Africa (2005-2019)
- member Directive Board of the Royal Museum for Central Africa (2013-present)
- member collection management committee of the Royal Museum for Central Africa (2005-2013)
- member committee permanent exhibitions of the Royal Museum for Central Africa (2001-present)
- member international advisory editorial board of International Journal of Dipterological Research.
- member executive committee East African Natural History Society (1993-1997; Treasurer in 1994-1995)
- member editorial subcommittee of East African Natural History Society (1993-1997).
- member library subcommittee of East African Natural History Society (1993-1997).
- member steering committee Centre for Biodiversity, National Museums of Kenya (1993-1995).
- member (secretary) collection management committee, National Museums of Kenya (1993-1994).
- member organizing committee Workshop on Regional Cooperation in Biodiversity Research and Training (Nairobi, 7-11.II.1994)
- convenor Symposium on Biodiversity at 3rd international Conference on Tropical Entomology (Nairobi, 30.X-4.XI.1994)
- member technical committee African Fruit Fly Initiative, ICIPE Nairobi Kenya (1999-2005)
- convenor Workshop ENBI (European Network of Biodiversity Information) workpackage 13 workshop (Tervuren, 30-31.X.2003)

*Scientific advisor & expertise

- Scientific expert EPPO EU Grant Agreement Project revision of datasheets on regulated pests (2020)
- Scientific expert FAO/IAEA project BOT5013 'Using the Sterile Insect Technique Integrated with other suppression methods for managing *Bactrocera dorsalis*', Mahalapye & Gaborone (2019)
- Scientific expert EFSA (European Food Safety Authority) Plant Health team, development pest survey cards for the European Union (M-2017-0137 Pest Survey) (2018)
- Scientific expert FAO/IAEA regional project RAF5074 'Enhancing Capacity for Detection, Surveillance and Suppression of Exotic and Established Fruit Fly Species through Integration of Sterile Insect Technique with Other Suppression Methods'; First National Coordinators meeting, Maputo, Mozambique (2016); mid term Coordinators meeting Accra, Ghana (2018)
- Scientific expert FAO/IAEA project MOR5035 'Implementing the Sterile Insect Technique in the Souss Valley', component fruit fly surveillance, Rabat, Morocco (2016)
- Scientific expert FAO/IAEA project BKF5012 'Collecting Baseline Data and Implementing Fruit Fly Suppression in Mango Fruit, Burkina Faso', component fruit fly surveillance. Bobo-Dioulasso, Burkina Faso (2015)

- Scientific expert FAO/IAEA project MAG5017 'Developing strategies for Integrated Management of Fruit Flies Based on the Sterile Insect Technique, Madagascar', component fruit fly surveillance (2010)
- member Expert Working Group Pest Risk Analysis on *Bactrocera invadens*, EPPO (European and Mediterranean Plant Protection Organization) (2009)
- Expert advice on Tephritidae to Scientific Advisory Services, Thully, Australia
- Identification services for various national and international organisations (CIRAD, USDA, ICIPE, Pennstate University, Government of Western Australia, Citrus Research International)

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BOOKS & MONOGRAPHS

- M11. Piper, R., R. Pereira, J. Hendrichs, W. Enkerlin & **M. De Meyer** (Eds). 2019. A guide to the major pest fruit flies of the world. Scientific Advisory Services Pty Ltd, Australia, ii + 80pp.
- M10. Ekesi, S., S.A. Mohamed & **M. De Meyer** (Eds). 2016. Fruit fly research and development in Africa – Towards a sustainable management strategy to improve Horticulture, Springer Verlag, xx + 778pp.
- M9. **De Meyer, M.**, A. Clarke, T. Vera & J. Hendrichs (Eds). 2015. Resolution of Cryptic Species Complexes of Tephritid Pests to Enhance SIT Application and Facilitate International Trade. ZooKeys 540: vi + 557pp.
- M8. Mwatawala, M., **M. De Meyer**, Z. Seguni, G.M. Rwegasira, J. Muganyizi, J. Senkondo & L. Shechambo. 2013. Management plan of fruit fly (Diptera: Tephritidae) in Tanzania. Sokoine University of Agriculture, Morogoro, Tanzania: xii + 95pp.
- M7. Nagy, Z.T., T. Backeljau, **M. De Meyer** & K. Jordaens (Eds). 2013. DNA barcoding: a practical tool for fundamental and applied biodiversity research. ZooKeys 365: 412pp.
- M6. Mwatawala, M., **M. De Meyer**, Z. Seguni, G.M. Rwegasira, J. Muganyizi, F. Senkondo, L. Shechambo, D. Shempemba & E. Kweka. 2012. Udhibiti wa nzi waharibifu wa matunda: mwongozo kwa wakulima na maafisa ugani. Chuo Kikuu cha Kilimo cha Sokoine, Morogoro Tanzania: vi + 38pp.
- M5. JEMU. 2012. *Program and abstracts volume third European Conference for the Barcode of Life*. – Royal Museum for Central Africa, Tervuren: xxvii+95pp.

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- A179. Bota, L., B. Fabião, **M. De Meyer**, L. Manuel, M. Mwatawala, M. Virgilio, L. Canhanga & D. Cugala. 2020. Fine-scale infestation pattern of *Bactrocera dorsalis* (Diptera : Tephritidae) in a mango orchard in Central Mozambique. International Journal of Tropical Insect Science. Doi 10.1007/s42690-020-00152-5
- A178. Ruiz-Arce, R., T.N. Todd, R. Deleon, N.B. Barr, M. Virgilio, **M. De Meyer** & B.A. McPheron. 2020. Worldwide phylogeography of *Ceratitis capitata* (Diptera: Tephritidae) using mitochondrial DNA. Journal of Economic Entomology: doi: 10.1093/jeet/toaa024
- A177. De Cock, M., M. Virgilio, P. Vandamme, A. Augoustinos, K. Bourtzis, A. Willems & **M. De Meyer**. 2019. Impact of sample preservation and manipulation on insect gut microbiome profiling. A test

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- A124. **De Meyer, M.** & A. Freidberg. 2012. Taxonomic revision of the fruit fly genus *Neoceratitis* Hendel (Diptera: Tephritidae). Zootaxa 3223: 24-39. (IF 0.927)
- A123. Barr, N.B., M.S. Islam, **M. De Meyer** & B.A. McPherson. 2012. Molecular identification of *Ceratitis capitata* (Diptera : Tephritidae) using DNA sequences of the COI barcode region. Annals of the Entomological Society of America 105: 339-350. (IF 1.317)
- A122. Virgilio, M., K. Jordaens, F. Breman, T. Backeljau & **M. De Meyer**. 2012. Identifying insects with incomplete DNA barcode libraries, African fruit flies (Diptera: Tephritidae) as a test case. PlosOne 7(2): 1-8. (IF 4.41)
- A121. Geurts, K., M. Mwatawala & **M. De Meyer**. 2012. Indigenous and invasive fruit fly (Diptera: Tephritidae) diversity along an altitudinal transect in Central Tanzania. Journal of Insect Science 12 (12): 1-18. (IF 0.947)
- A120. Virgilio, M., T. Backeljau, R. Emeleme, J-L Juakali & **M. De Meyer**. 2011. A quantitative comparison of frugivorous tephritids (Diptera: Tephritidae) in tropical forests and rural areas of the Democratic Republic of Congo. Bulletin of Entomological Research 101: 591-597. (IF 1.58)
- A119. Erbout, N., M. Virgilio, L. Lens N. Barr & **M. De Meyer**. 2011. Discrepancies between subgeneric classification and molecular phylogeny of *Ceratitis* (Diptera: Tephritidae), can the evolution of host use provide some clues? Molecular Phylogeny and Evolution 60: 259-264. (IF 3.9)

Others:

60 publications in non-peer reviewed journals

Close to 250 abstracts and presentations at international conferences.