

Third FAO/IAEA International Conference on

# Area-Wide Management of Insect Pests:

Integrating the Sterile Insect and  
Related Nuclear and Other Techniques

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## PROGRAMME



Organized by the



Joint FAO/IAEA Programme  
Nuclear Techniques in Food and Agriculture

22–26 May 2017  
Vienna, Austria

CN-248

Organized by the



**IAEA**

**Joint FAO/IAEA Programme**  
Nuclear Techniques in Food and Agriculture

## **FAO/IAEA Programme Committee:**

A. Abdalla  
R. Argilés  
K. Bourtzis  
J. Bouyer  
C. Cáceres  
R. Cardoso Pereira  
W. Enkerlin  
J. Gilles  
G. Hallman  
I. Haq  
J. Hendrichs  
S. Leak  
A. Parker  
M. Vreysen  
H. Yamada

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### **Secretariat:**

Scientific Secretaries: R. Cardoso Pereira  
M. Vreysen

Conference Organizer: M. Neuhold  
M. Khaelss

Conference Support: N. Ghazarian  
N. Mashayekhi-Tabrizi  
E. Zdravevska

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### **Location of the Conference:**

International Atomic Energy Agency  
Vienna International Centre (VIC)  
**C Building, Board Room C, 4th floor**

Wagramer Strasse 5  
1400 Vienna, Austria  
Tel.: (+43) 1 2600 0  
E-mail: [official.mail@iaea.org](mailto:official.mail@iaea.org)

**Working Language:** English

**Resolutions:** No resolutions may be submitted for consideration on any subject; no votes will be taken.

## TIMETABLE

### Sunday, 21 May 2017

16:00–19:00	Registration	Gate 1
17:00–19:00	Welcome Reception	C Building–4 <sup>th</sup> floor

### Monday, 22 May 2017

08:00	Registration	Gate 1
09:00–09:30	Opening Session	
09:30–10:15	Session 1	Operational Area-wide Programmes
10:15–10:45	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
10:45–13:00	Session 1 (cont'd)	Operational Area-wide Programmes
13:00–14:00	<i>Lunch Break</i>	
14:00–15:30	Session 1 (cont'd)	Operational Area-wide Programmes
15:30–16:00	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
16:00–18:00	Session 1 (cont'd)	Operational Area-wide Programmes
18:00–18:30	<i>Group Photo</i>	

### Tuesday, 23 May 2017

08:45–10:30	Session 2	Mosquitoes & Human Health
10:30–11:00	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
11:00–13:00	Session 2 (cont'd)	Mosquitoes & Human Health
13:00–14:15	<i>Lunch Break</i>	
14:15–15:45	Session 2 (cont'd)	Mosquitoes & Human Health
15:45–16:15	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
16:15–18:30	Session 2 (cont'd)	Mosquitoes & Human Health

### Wednesday, 24 May 2017

08:45–10:30	Session 3	Animal Health
10:30–11:00	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
11:00–13:00	Session 3 (cont'd)	Animal Health
13:00–14:15	<i>Lunch Break</i>	
14:15–16:00	Session 4	Regulatory Issues and Socio-Economic Impact
16:00–16:30	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
16:30–18:30	Session 4 (cont'd)	Regulatory Issues and Socio-Economic Impact

## Thursday, 25 May 2017

08:45–10:30	Session 5	Climate Change, Global Trade and Invasive Species
10:30–11:00	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
11:00–13:00	Session 5 (cont'd)	Climate Change, Global Trade and Invasive Species
13:00–14:15	<i>Lunch Break</i>	
14:15–16:00	Session 6	New Developments and Tools for Area-wide Integrated Pest Management
16:00–16:30	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
16:30–18:30	Session 6 (cont'd)	New Developments and Tools for Area-wide Integrated Pest Management

## Friday, 26 May 2017

08:45–10:30	Session 7	Keynote Presentation and Discussion Panel
10:30–11:00	<i>Poster Viewing &amp;</i>	<i>Coffee/Tea Break</i>
11:00–13:00	Session 7 (cont'd)	Discussion Panels
13:00–13:15	Conference Closing	

### **Posters will be presented in the common area on the 4<sup>th</sup> floor of the C Building:**

Posters for Sessions 1 and 2 will be presented from Sunday afternoon to Tuesday evening.

Posters for Sessions 3-6 will be presented from Tuesday evening to Friday noon.

**Commercial exhibits will be displayed in the common area on the 4<sup>th</sup> floor of the C Building from Monday to Friday, 22-26 May 2017.**

## SUNDAY, 21 MAY 2017

**16:00–19:00**      **Registration and Distribution  
of Conference Materials**

**17:00–19:00**      **Welcome Reception**  
C Building–4<sup>th</sup> floor

## MONDAY, 22 MAY 2017

**08:00**              **Registration and Distribution  
of Conference Materials**

**09:00–09:30**      **OPENING SESSION**

**Moderator:**      **Aldo Malavasi**  
Deputy Director General, IAEA

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**Yukiya Amano**  
Director General, IAEA

**Ren Wang**  
Assistant Director General  
Agriculture and Consumer Protection  
Department, FAO

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**SESSION 1:**  
**Operational Area-wide Programmes**

**Chair:**              **Gregory Simmons,**  
**United States of America**  
**Co-Chair:**        **Rui Cardoso Pereira, FAO/IAEA**

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>09:30–10:15</b>	<b>Kenneth Bloem</b> Keynote Speaker	United States of America
<i>10:15–10:45</i>	<i>Poster Viewing &amp; Coffee/Tea Break</i>	(sponsored)
<b>10:45–11:15</b>	<b>Keith Cressman</b>	FAO
<b>11:15–11:45</b>	<b>Kong Luen Heong</b>	China
<b>11:45–12:15</b>	<b>Eoin Davis</b>	United States of America
<b>12:15–13:00</b>	<b>Ring Cardé</b>	United States of America
<i>12:45–14:00</i>	<i>Lunch Break</i>	

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## Placement of Posters Sessions 1 & 2

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Welcome address and opening remarks

Welcome address and opening remarks

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### *Title of Paper*

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Past, Present and Future: A Road Map to Integrated Area-wide Systems and Enterprise Risk Management Approaches to Pest Control

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Technological Innovations in Global Desert Locust Early Warning

Area Wide Management of Rice Pests in Asia through Integrating Ecological Engineering Techniques

Exclusion, Suppression, and Eradication of Pink Bollworm (*Pectinophora gossypiella* (Saunders)) from the Southwestern USA and Northern Mexico

Use of Pheromones to Disrupt Mating of Moth Pests in Area-wide Management Programmes

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## MONDAY, 22 MAY 2017

### SESSION 1 (cont'd): Operational Area-wide Programmes

**Chair:** Zeng-rong Zhu, China  
**Co-Chair:** Marc Vreysen, FAO/IAEA

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>14:00–14:30</b>	<b>Clemente de Jesús García Avila</b>	Mexico
<b>14:30–15:00</b>	<b>Hailin Yang</b>	China
<b>15:00–15:30</b>	<b>Cara Nelson</b>	Canada

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*15:30–16:00*      *Poster Viewing &  
Coffee/Tea Break* (sponsored)

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### SESSION 1 (cont'd): Operational Area-wide Programmes

**Chair:** Preaduth Sookar, Mauritius  
**Co-Chair:** Jorge Hendrichs, FAO/IAEA

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<b>16:00–16:30</b>	<b>Nevill Boersma</b>	South Africa
<b>16:30–17:00</b>	<b>Adalberto Pérez de León</b>	United States of America
<b>17:00–17:30</b>	<b>Pedro Rendón</b>	Guatemala
<b>17:30–18:00</b>	<b>Pablo Liedo</b>	Mexico
<i>17:30–18:00</i>	<i>Group Photo</i>	

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*Title of Paper*

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Holistic Area-wide Approach for Successfully Managing Citrus Greening (Huanglongbing) in Mexico

Area-wide Biological Control Using the Parasitic Natural Enemy *Aphidius gifuensis* (Hymenoptera: Braconidae) to Control *Myzus persicae* (Homoptera: Aphididae) in China

Putting Sterile Insect Technique into the Modern IPM Toolbox: Over 20 Years of Successful Area-wide Integrated Pest Management in Canadian Pome Fruit

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The Suppression of the False Codling Moth, *Thaumatotibia leucotreta*, in South Africa using an AW-IPM approach with a SIT component

Advances in Integrated Tick Management for Area-wide Mitigation of Tick-borne Disease Burden

Area-wide Fruit Fly Programmes in Latin America

Area-wide Management of Fruit Flies in a Tropical Mango Growing Area Using the Sterile Insect Technique: From a Research Project to an Operational Programme

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## TUESDAY, 23 MAY 2017

### SESSION 2:

#### Mosquitoes and Human Health

**Chair:** Romeo Bellini, Italy  
**Co-Chair:** Kostas Bourtzis, FAO/IAEA

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>08:45–09:30</b>	<b>Raman Velayudhan</b> Keynote Speaker	WHO
<b>09:30–10:00</b>	<b>Graham White</b>	United States of America
<b>10:00–10:30</b>	<b>Rajitha Wickremasinghe</b>	Sri Lanka
<b>10:30–11:00</b>	<i>Poster Viewing &amp; Coffee/Tea Break</i> (sponsored)	

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### SESSION 2 (cont'd):

#### Mosquitoes and Human Health

**Chair:** Ildefonso Fernández-Salas, Mexico  
**Co-Chair:** Jeremy Bouyer, FAO/IAEA

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<b>11:00–11:30</b>	<b>Roberto Barrera</b>	Puerto Rico
<b>11:30–12:00</b>	<b>Zhiyong Xi</b>	China
<b>12:00–12:30</b>	<b>Pattamaporn Kittayapong</b>	Thailand
<b>12:30–13:00</b>	<b>Lee Ching Ng</b>	Singapore
<b>13:00–14:15</b>	<i>Lunch Break</i>	

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*Title of Paper*

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WHO Vector Control Advisory Group Activities and WHO  
Vector Control Global Response 2017-2030

Area-Wide Mosquito Management in the Americas

Malaria Elimination in Sri Lanka

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City-wide Control of *Aedes aegypti* and Zika Virus Using  
Mass-trapping in Puerto Rico

Developing the Combined IIT/SIT Approach to Control the  
Primary Dengue Vector *Aedes albopictus* in China

Area-wide Management of *Aedes aegypti* Mosquito Vector:  
The First Pilot Suppression Trial in Thailand Integrating the  
Sterile Insect Technique with *Wolbachia*-induced  
Incompatibility Approach

*Wolbachia*-*Aedes* - An Additional Tool to Control *Aedes*  
*aegypti* in Singapore

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## TUESDAY, 23 MAY 2017

### SESSION 2 (cont'd):

#### Mosquitoes and Human Health

**Chair:** Ignacio Pla-Mora, Spain  
**Co-Chair:** Hanano Yamada, FAO/IAEA

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	Name	Designating Member State/Organization
<b>14:15–14:45</b>	<b>Jan Lundström</b>	Sweden
<b>14:45–15:15</b>	<b>Margareth Capurro</b>	Brazil
<b>15:15–15:45</b>	<b>Nikolai Windbichler</b>	United Kingdom
<b>15:45–16:15</b>	<i>Poster Viewing &amp; Coffee/Tea Break</i>	(sponsored)

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### SESSION 2 (cont'd):

#### Mosquitoes and Human Health

**Chair:** Rene Gato-Armas, Cuba  
**Co-Chair:** Danilo Carvalho, FAO/IAEA

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<b>16:15–16:45</b>	<b>Peter Ryan</b>	Australia
<b>16:45–17:15</b>	<b>Marcelo Jacobs- Lorena</b>	United States of America
<b>17:15–17:45</b>	<b>Steve Whyard</b>	Canada
<b>17:45–18:15</b>	<b>Carlos Tur</b>	Spain

Removal of Posters Sessions 1 & 2  
Placement of Posters Sessions 3 – 6

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Title of Paper

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Developing AW-SIT as Part of an Integrated Control Strategy against *Aedes sticticus* in the River Dalälven Floodplains, Central Sweden

*Aedes aegypti* control programmes in Brazil

Novel Genetic Methods for the Area-wide Control of Insects: Gene Drive and Sex Ratio Distortion

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The Eliminate Dengue Program - Use of *Wolbachia* to Control the Transmission of *Aedes aegypti* Associated Viruses

Fighting Malaria with Engineered Symbiotic Bacteria from Vector Mosquitoes

RNAi Strategies in Support of Mosquito SIT Applications

Efficient Sex Separation in *Aedes* Mosquitoes Using Image Analysis and elimination of females by Laser Beams

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## WEDNESDAY, 24 MAY 2017

### SESSION 3:

#### Animal Health

**Chair:** Giuliano Cecchi, FAO  
**Co-Chair:** Andrew Parker, FAO/IAEA

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>08:45–09:30</b>	<b>Baba Sall</b> Keynote Speaker	Senegal
<b>09:30–10:00</b>	<b>Zerihun Woldesenbet Geleta</b>	Ethiopia
<b>10:00–10:30</b>	<b>Ahmadou Dicko</b>	Mali
<i>10:30–11:00</i>	<i>Poster Viewing &amp; Coffee/Tea Break</i>	<i>(sponsored)</i>

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### SESSION 3 (Cont'd):

#### Animal Health

**Chair:** Peter James, Australia  
**Co-Chair:** Rafael Argilés, FAO/IAEA

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<b>11:00–11:30</b>	<b>Wolfgang Miller</b>	Austria
<b>11:30–12:00</b>	<b>Jan van den Abbeele</b>	Belgium
<b>12:00–12:30</b>	<b>Ana Maria Azeredo-Espin</b>	Brazil
<b>12:30–13:00</b>	<b>David Taylor</b>	United States of America
<i>13:00–14:15</i>	<i>Lunch break</i>	

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*Title of Paper*

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The Eradication of the Tsetse Fly *Glossina palpalis gambiensis* from the Niayes of Senegal Using an Area-wide Integrated Pest Management Approach that Includes the Release of Sterile Males

Achievements and Challenges of Tsetse and Trypanosomosis Control Operations in the Southern Rift Valley of Ethiopia

Mapping Landscape Friction to Locate Isolated Tsetse Populations that are Candidates for Elimination

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Titre and Tissue Dynamics of Tsetse Symbionts in *Glossina* Interspecies Hybrids: Biological and Applied Aspects

Paratransgenesis as a Tool to Block Trypanosome Transmission by Tsetse

Genetic Structure, Demographic and Phylogeographic History of the New World Screwworm Fly in South America and Caribbean regions

Area-wide Management of Stable Flies

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## WEDNESDAY, 24 MAY 2017

### SESSION 4:

#### Regulatory Issues and Socio-Economic Impact

**Chair:** Sylvia Bluemel, Austria  
**Co-Chair:** Guy Hallman, FAO/IAEA

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>14:15–15:00</b>	<b>Joop Van Lenteren</b> <i>Keynote Speaker</i>	The Netherlands
<b>15:00–15:30</b>	<b>Stephanie Bloem</b>	United States of America
<b>15:30–16:00</b>	<b>Kaare Magne Nielsen</b>	Norway
<i>16:00–16:30</i>	<i>Poster Viewing &amp; Coffee/Tea Break</i>	<i>(sponsored)</i>

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### SESSION 4 (cont'd):

#### Regulatory Issues and Socio-Economic Impact

**Chair:** Olivia Reynolds, Australia  
**Co-Chair:** Walther Enkerlin, FAO/IAEA

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<b>16:30–17:00</b>	<b>Guy Hallman</b>	FAO/IAEA
<b>17:00–17:30</b>	<b>Trang Vo</b>	United States of America
<b>17:30–18:00</b>	<b>John Mumford</b>	United Kingdom
<b>18:00–18:30</b>	<b>Nancy Schellhorn</b>	Australia

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*Title of Paper*

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Will the “Nagoya Protocol on Access and Benefit Sharing”  
Put an End to Biological Control?

The Relationship between the Phytosanitary Regulatory  
Framework and International Trade – Case Studies

Regulatory and Societal Considerations of New Genetic  
Techniques

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Avoiding Trade Restrictions due to Questionable Assertions  
about Taxonomy, Hosts, and Geographic Distribution of  
Regulated Pests

Methods to Quantify Invasive Pest Risk and Socioeconomic  
Impact to Promote Objective Regulatory Decision-making:  
Case Studies on Sterile Insect Techniques (SIT) Related  
Programmes

Public-private Partnerships: How Much Should Producers  
Pay and How Much Should Governments Subsidize Area-  
wide Programmes?

Costs and Benefits of Queensland Fruit Fly Area-wide  
Management with Linked Spatial Population Simulations

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## THURSDAY, 25 MAY 2017

### SESSION 5: Climate Change, Global Trade and Invasive Species

**Chair:** Kris Wyckhuys, CIAT  
**Co-Chair:** Rui Cardoso Pereira, FAO/IAEA

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>08:45–09:30</b>	<b>Max Suckling</b> Keynote Speaker	New Zealand
<b>09:30–10:00</b>	<b>Andy Liebhold</b>	United States of America
<b>10:00–10:30</b>	<b>Gregory Marte</b>	Dominican Republic
<i>10:30–11:00</i>	<i>Poster Viewing &amp; Coffee/Tea Break</i>	(sponsored)

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### SESSION 5 (cont'd): Climate Change, Global Trade and Invasive Species

**Chair:** Changying Niu, China  
**Co-Chair:** Ihsan Haq, FAO/IAEA

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<b>11:00–11:30</b>	<b>Hannah Burrack</b>	United States of America
<b>11:30–12:00</b>	<b>Eva Veronesi</b>	Switzerland
<b>12:00–12:30</b>	<b>Nicholas Manoukis</b>	United States of America
<b>12:30–13:00</b>	<b>Estuardo Lira</b>	Guatemala
<i>13:00–14:15</i>	<i>Lunch Break</i>	

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*Title of Paper*

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Global Trends in Arthropod Eradication Programmes

Area-wide Management of Invading Gypsy Moth (*Lymantria dispar*) Populations in the USA

Mediterranean Fruit Fly Eradication Programme in the Dominican Republic

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*Drosophila suzukii* Invasions and Options for its Management

Invasion of Europe with Vector-borne Disease Pathogen Transmitting Mosquitoes

Climate and Mediterranean Fruit Fly Invasion Persistence: Insights from Agent-Based Simulations

GIS-based Modelling to Predict the Impact of Climate Change on Medfly Populations in Central America and Decision Making Support for Pest Management

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## THURSDAY, 25 MAY 2017

### SESSION 6

#### New Developments and Tools for Area-wide Integrated Pest Management

**Chair:** Marc de Meyer, Belgium  
**Co-Chair:** Carlos Cáceres, FAO/IAEA

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>14:15–15:00</b>	<b>Marc Schetelig</b> Keynote Speaker	Germany
<b>15:00–15:30</b>	<b>Desmond Conlong</b>	South Africa
<b>15:30–16:00</b>	<b>Phillip W. Taylor</b>	Australia
<b>16:00–16:30</b>	<i>Poster Viewing &amp; Coffee/Tea Break</i>	(sponsored)

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### SESSION 6 (cont'd):

#### New Developments and Tools for Area-wide Integrated Pest Management

**Chair:** Rakesh Kumar Seth, India  
**Co-Chair:** Adly Abdalla, FAO/IAEA

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<b>16:30–17:00</b>	<b>Daniel Hahn</b>	United States of America
<b>17:00–17:30</b>	<b>George Tsiamis</b>	Greece
<b>17:30–18:00</b>	<b>Jérémy Bouyer</b>	FAO/IAEA
<b>18:00–18:30</b>	<b>David Benavente</b>	Spain

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*Title of Paper*

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Genome Editing and its Possible Applications: Curse or Blessing?

The Potential Addition of SIR and Bt-sugarcane to the Toolbox of an AW-IPM Programme against *Eldana saccharina* in South African Sugarcane

Integration of Male Annihilation Technique and Sterile Insect Technique

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The Importance of Dormancy and Dormancy Management for Biological Control

Characterization of Gut Microflora of Insects of Economic Importance – Practical Application

“Boosted SIT”: Auto-dissemination as an Additional Tool in AW-IPM Programmes

The Role of Drones in AW-IPM Programmes: a Drone for Sterile Tsetse Releases in Ethiopia

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## FRIDAY, 26 MAY 2017

### SESSION 7: Discussion Panels

**Chair:** Aristidis Economopoulos, Greece  
**Co-Chair:** Marc Vreysen, FAO/IAEA

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	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>08:45–09:30</b>	<b>Pamela Pennington</b> <i>Keynote Speaker</i>	Guatemala
<b>09:30–10:30</b>	<b>Cara Nelson</b> <b>(Panel Chair)</b> Nevill Boersma Heleen Kruger Aditi Mankad John Mumford Pamela Pennington	Canada South Africa Australia Australia United Kingdom Guatemala
<i>10:30–11:00</i>	<i>Poster Viewing &amp; Coffee/Tea Break</i>	(sponsored)
<b>11:00–12:00</b>	<b>Graham White</b> <b>(Panel Chair)</b> Jesús González- Roldán Lizette Koekemoer Peter Ryan Marc Schetelig Rajitha Wickremasinghe	United States of America Mexico South Africa Australia Germany Sri Lanka
<b>12:00–13:00</b>	<b>Pablo Liedo</b> <b>(Panel Chair)</b> Roberto Angulo Pedro Rendón Olivia Reynolds Matej Štefančič Roger Vargas	Mexico Mexico Guatemala Australia Slovenia United States of America

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*Title of Paper*

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Engagement of the Public in Support of Area-wide Integrated Pest Management

**Discussion Panel 1:** *Short Term Political Will / Vision and Stakeholder Support versus Long Term Sustainability of AW Programmes*

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**Discussion Panel 2:** *Opportunities and Risks for AW Control of Mosquito-borne Diseases*

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**Discussion Panel 3:** *How Will New Developments, Products and Technologies Affect the Way We Control Insect Pests*

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**13:00–13:15**

**Conference Closing**

Dazhu Yang  
DDG, Department of Technical  
Cooperation, IAEA

Aldo Malavasi  
DDG, Department of Nuclear Sciences  
and Applications, IAEA



Closing Remarks

Closing Remarks

## POSTERS RELATED TO SESSIONS:

- (1) Operational Area-wide Programmes
- (2) Mosquitoes & Human Health
- (3) Animal Health
- (4) Regulatory Issues and Socio-Economic Impact
- (5) Climate Change, Global Trade and Invasive Species
- (6) New Developments and Tools for Area-wide Integrated Pest Management

## POSTERS RELATED TO SESSION 1 OPERATIONAL AREA-WIDE PROGRAMMES

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
2	A. Kovaleski <b>T. Mastrangelo</b>	Brazil
12	<b>C. Nankinga</b> A. Mayamba F. Nampeera W. Waswa V. Lubega A. Kiggundu W. Tushemereirwe	Uganda
24	<b>I. Piá-Mora</b> C. Tur-Lahiguera	Spain
29	<b>M. Khalaf</b> H. Alrubeai	Iraq
32	<b>M. Ahmadi</b> B. Salehi M. Babaie	Iran
41	<b>A. Economopoulos</b> P. Rempoulakis	Greece
44	<b>B. Woods</b> R. Fogliani	Australia
45	<b>D. Cugala</b> A. Majacunene	Mozambique
46	<b>D. Marri</b> M. Osae	Ghana

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*Title of Poster*

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MOSCASUL Programme in Brazil: First Steps and Current Situation

Performance of Mango Fruit Fly Area-Wide Management in Central Uganda

SIT Application in Spain: AW-IPM Programme against Mediterranean Fruit Fly and Ongoing Activities for Future Implementation of SIT over Mosquitoes

Population Density and Distribution of Mediterranean fruit fly, *Ceratitis capitata* in Orchards of the Middle Region of Iraq

Towards the Control of *Bactrocera oleae* Gmelin (Diptera: Tephritidae) Using Sterile Insect Technique in Iran

Backyard Mediterranean Fruit Fly is a Key Factor in Area-Wide Management in Southern Europe. Data from Attiki Greece, 38 North Latitude

Eradicating Mediterranean Fruit Fly from Carnarvon, Western Australia Using Area-wide Management, Community Engagement and Sterile Male Release

Assessing the Efficacy of Integrated Pest Management Strategies for Suppressing *Bactrocera dorsalis* in Selected Orchards in Manica Province, Mozambique

Evaluation of the Efficacy of a Commercial Formulation of *Beauveria bassiana* for the Control of the Invasive Fruit Fly *Bactrocera dorsalis* (Diptera: Tephritidae)

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<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
49	S. Ekesi <b>S. Mohamed</b> M. De Meyer	ICIZE
50	P. Addison D. Cugala J-H. Daneel H. Delatte <b>M. De Meyer</b> P-F. Duyck N. Hala M. Karsten C. Knox A. Manrakhan M. Mwatawala M. Virgilio C. Weldon	South Africa
51	<b>T. S. Syamsudin</b> R. Kirana A. Aos R. Alfianny	Indonesia
56	<b>M. Kasina</b> J. Mulwa P. Maingi T. Karanja G. Kyallo G. Momanyi M. Nyamai	Kenya
77	<b>Z. Abdullah</b> T. Ali	Tanzania
83	<b>M. Benelli</b> U. Lallu K. Mitchell F. Ponton P. W. Taylor	Australia
86	<b>R. Vargas</b> S. Souder R. Mau	United States of America
89	<b>F. Bekker</b> M. Addison A. Van Niekerk P. Addison	South Africa

Fruit Fly Research and Development in Africa - Towards a Sustainable Management Strategy to Improve Horticulture

Strengthening Fruit Fly Research between Europe and Africa through Networking

Development and Implementation of Area-wide Fruit Fly Control in Chili Crops in West Java – Indonesia

Establishing an Area of Low *Bactrocera (invadens) dorsalis* Prevalence in Kenya

Suppression of Invasive *Bactrocera dorsalis* (Diptera: Tephritidae) by Using Integrated Pest Management Approach in Zanzibar

Cold Storage of Queensland Fruit Fly Pupae for Mass-rearing Programmes

Field Evaluation of Novel Male Lure “Attract and Kill” Stations for Area-Wide Suppression of Fruit Flies (Diptera: Tephritidae) in Hawaii

The Area-wide Spatio-temporal Distribution of *Ceratitis capitata* (Wiedemann) Populations in the Western Cape, South Africa

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97	<b>A. Manrakhan</b> J-H. Daneel M. De Meyer M. Virgilio P-F. Duyck H. Delatte F. N. Hala	South Africa
105	<b>K. Mahat</b> P. Loday L. Dorji L. Lakey G. Sanderson	Bhutan
116	<b>R. Rutherford</b> D. Conlong	South Africa
118	<b>M. Saleh</b> G. Hegazy	Egypt
126	M. N. Daamen F. A. De Souza E. A. Dos Santos J. L. Dos Santos <b>J. F. Virginio</b>	Brazil
129	<b>N. Kouloussis</b>	Greece
130	<b>G. Simmons</b> M. Daugherty L. Varela	United States of America
134	<b>P. Sookar</b> M. Alleck I. Buldawoo S. Ramjee N. Allymamod F. Khayrattee N. Patel R. Bhoyroo	Mauritius
140	<b>J. H. Venter</b> C. Baard	South Africa
151	A. Gezhilli <b>E. Dikolli</b> P. Kadriaj V. Jani E. Zaimaj S. Bino N. Haka-Duraj	Albania

Developing Effective Detection Tools for Afrotropical Fruit Fly Pests - The ERAfrica 'FRUIT FLY' Project

Area-Wide Management of Chinese Citrus Fruit Fly in Tsirang, Bhutan Using Protein Bait Sprays and Orchard Hygiene

F<sub>1</sub>: Fast-Tracking *Eldana saccharina* Moths for Sterile Insect Release

Field Application of Biocontrol Agents for Controlling the Red Palm Weevil

Insights after Nine Years of Fruit Fly Monitoring in the San Francisco Valley, Brazil

An Environmentally-friendly New Attractant (BIODELEAR) for the Mass-trapping of *Ceratitidis capitata*

Area-Wide Programme to Eradicate the European Grapevine Moth, *Lobesia botrana* in California, USA

Attempt to Re-eradicate *Bactrocera dorsalis* (Hendel) from Mauritius

Area-wide Management with SIT of Mediterranean Fruit Fly in South Africa: New Management Techniques Showing Dividends

Preliminary Data on Distribution of Mediterranean Fruit Fly *Ceratitidis capitata* (Wiedemann) in Albania

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156	<b>H. Nguyen Thi Thanh</b> T. Vu Van T. Vu Thi Thuy L. Ha Thi Kim K. Le Duc	Viet Nam
158	<b>K. Wyckhuys</b>	CIAT
165	<b>S. Al-Khatiri</b>	Oman
167	<b>Y. Bayram</b> T. Asikoglu M. Sahin	Turkey
178	<b>Z. Chen</b> P. Li P. Yang Y. Dong C. Niu	China
185	T. Brevault T. Baldet J. Bouyer <b>H. Delatte</b>	France
189	<b>K. Ntlogelang</b> P. Mawere	Botswana
196	<b>D. Quiroga</b> W. Ramirez C. Ruiz	Argentina
197	<b>F. J. Trujillo-Arriaga</b> F. Ramirez-Y-Ramirez G. Santiago-Martinez R. A. Hernandez-Livera A. Bello-Rivera F. Sanchez Galicia	Mexico



Integrated Management of *Bactrocera* Fruit Flies in Dragon Fruit Production in Viet Nam

Maximizing the Contribution of Biological Control to Area-wide Pest Management: Opportunities for Targeted Use of Nuclear Techniques

Area-wide Management of Red Palm Weevil in Oman

Insect Management in Wide Areas of Turkey

The Monitoring and Management of the Chinese Citrus Fly, *Bactrocera minax* Based on Behavioural Research

Scaling-up Biocontrol Using Sterile Insects as Phoretic Agents

Relative Abundance of Fruit Fly Species in One Agro-ecological Zone on Marula (*Sclerocarya birrea*) Trees in Botswana

National Fruit Fly Control and Eradication Programme in the Argentinean Northeast — PROCEN NEA

Mexican Plant Health, the Key to the World Fruit Market: Fruit Flies Case

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202	<b>H. Akter</b> P. Rempoulakis P. W. Taylor	Australia
210	<b>U. Davaasambuu</b> S. Tsegmed	Mongolia
213	<b>Z. Zhu</b> P. Qian H. Li	China
228	<b>W. Orankanok</b> A. Upanisakorn K. Wyckhuys	Thailand
229	<b>V. Umeh</b> D. Onukwu M. Olaniyi	Nigeria
233	<b>J. Masoka</b> L. D. M. Makumbe	Zimbabwe
234	<b>A. Egartner</b> C. Lethmayer R. Gottsberger S. Bluemel	Austria
243	<b>A. Molero</b> M. Vanin	Argentina
256	<b>J. A. Manrique Linares</b> C. Rivera-Tejada	Peru
259	<b>P. Rodriguez</b>	Panama
260	<b>R. Rodríguez</b> C. Lobos R. Castro J. Yevenes A. Barra P. Jara	Chile
262	<b>E. Arévalo</b> Á. Castro B. Vargas M. Hurtado P. Rodríguez Z. Florez M. Gordillo	Colombia
265	<b>W. Wakil</b>	Pakistan

Effect of Pre-release Raspberry Ketone Supplements on Ability of Queensland Fruit Fly to Tolerate Desiccation and Nutritional Deprivation  
The Occurrence of Fruit Flies (*Rhagoletis batava*) and Damage Caused by them on Sea Buckthorn Production of Mongolia  
Area-wide Ecological Engineering for Rice Pest Management in China

Lessons Learned from AW-IPM Control of Fruit Flies to Combat Cassava Pink Mealybug in Thailand

Comparative Efficacy of Integrated Pest Management Methods for the Suppression of *Bactrocera dorsalis* (Diptera: Tephritidae) on Citrus  
Towards the Creation of a Pest Free Area for Fruit Flies (Diptera: Tephritidae) in the Mashonaland Central Province of Zimbabwe  
Monitoring Activities on Invasive Fruit Flies of Economic Importance in Austria

Application of Geographic Information Systems in the Pest Management in Wide Areas

Control of Fruit Flies in Peru

Utilization of *Fevillea cordifolia* as Trap Plant to Control *Anastrepha grandis* ((Macquart, 1846) in Panama

National Fruit Flies Detection System (NFFDS) in Chile: 50 Years of One Successful Plan

National Fruit Flies Plan in Colombia

Sterile Insect Technique against Pink Bollworm in Pakistan

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275	<b>A. Qadda</b> A. El Yaegoubi J. Wadjinny	Morocco
276	<b>S. Chinvinijkul</b> W. Sukamnouyporn W. Limopassmanee A. Uthaitanakit W. Orankanok	Thailand
288	<b>S. Brutus</b> B. Petrousse D. Lesperance L. Cadeau M. Nicolas M. Nourice R. Gouvindin E.S.C. Smith P. Sookar R. Pereira R. Stravens	Seychelles
292	<b>I.A. Ince</b> <b>Ö.F. Tastan</b>	Turkey

The Cactus Moth (*Cactoblastis cactorum*) Eradication Programme in México

Expanding Area-wide Mediterranean Fruit Fly Management in Morocco through the Implementation of a Mass-rearing Facility

Area-wide Integrated Control of Fruit Flies in Thailand

Pilot Study on Suppression of Melon Fly, *Zeugodacus cucurbitae*, in Seychelles

Exploring the Biocontrol Agents for *Ricania simulans* (Walker, 1851) and its Microbiota

## POSTERS RELATED TO SESSION 2 MOSQUITOES AND HUMAN HEALTH

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
6	<b>F. Manzoor</b>	Pakistan
9	<b>A. Martinou</b>	Cyprus
15	<b>E. Kairiyama</b> J. Deschutter R. Olmedo R. C. Piragine M. Garcia-Alba F. Zelaya	Argentina
18	<b>I. Khan</b> J. Ahmad G. Z. Khan A. Alamzeb	Pakistan
28	<b>S. Soulaphy</b>	Laos
43	G. Z. Khan <b>I. Khan</b> A. Zeb T. Badshah	Pakistan
59	<b>L. Koekemoer</b> G. Munhenga O. Wood L. Lobb L. Dandalo B. Brooke M. Kaiser	South Africa
63	<b>M. A. Rodriguez-Perez</b> A. J. Garza-Hernandez F. Reyes-Villanueva	Mexico
70	<b>G. Munhenga</b> L. Koekemoer B. Brooke T. Mashatola	South Africa
73	<b>P. Liedo-Fernandez</b> G. Bond C. Marina-Fernandez A. Dor	Mexico

Role of Silver Nanoparticles in Mosquitoes Control

Mosquito Surveillance and Control: Challenges, Management and Opportunities in Sovereign Base Areas (SBA) in Cyprus and Overseas Territories

Towards the Implementation of the SIT in Argentina in Integrated Pest Management to Control *Aedes Aegypti*, Vector Mosquito of Dengue, Zika and Chikungunya

Assessment on Radiation-induced Sterility and Longevity of *Aedes aegypti* (Diptera: Culicidae) Strain of Swat, Pakistan

An Eco-Bio-Social Approach to Apply to Control Dengue in Vang Vieng District, Vientiane Province, Lao PDR, a Southeast Asian Global Outreach Tourist Hotspot (2012-2014)

Integration of Conventional Vector Control with Sterile Insect Technique against the Dengue Vectors *Aedes aegypti* and *Aedes albopictus* in Pakistan

Ups and Downs during the Development of a Malaria SIT Programme for South Africa

Releases of Fungus Exposed *Aedes aegypti* Males Integrated with Sterile Insect Technique for an Area-wide Vector Management Programme

Development of Sex Separation Tools to Eliminate Female *Anopheles arabiensis* during Mass-production

Pilot Test to Assess the Effectiveness of SIT + IIT to Suppress *Aedes aegypti* Populations in Chiapas, Mexico

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92	<b>A. Bheecarry</b> D. Iyaloo K. B. Elahee	Mauritius
122	<b>G. Willat</b> S. Acuña	Uruguay
125	L. Garziera M. Pedrosa F. Souza M. Capurro <b>J. Virgínio</b>	Brazil
135	<b>R. Bellini</b> A. Puggioli M. Carrieri	Italy
144	<b>J. F. González-Roldán</b> F. Correa-Morales G. Sanchez-Tejeda	Mexico
147	<b>M. Osae</b> E. Baafi	Ghana
149	<b>C. H. Yin Zar</b> E. N. Chaw T. Aye N. A. Tin K. L. Ko T. Y. Win A. K. Aye H. Yamada C. S. Mya Nilar	Myanmar
153	<b>J. F. González-Roldán</b> F. Correa-Morales G. Sanchez-Tejeda	Mexico
171	A. Nahallage-Dona Y. I. N. S. Gunawardene T. G. A. N. Chandrasena R. S. Dassanayake P. A. D. H. N. Gunathilaka Z., Xi K. Bourtzis <b>W. Abeyewickreme</b> P. Kittayapong	Sri Lanka



SIT Project in Mauritius: Achievements, Lessons Learnt and the Way Forward

Solidary Nets that Prevent the Entry of Mosquitoes into the Houses

Implementation of a Surveillance Model for *Aedes aegypti* as a Support for Genetic Control Programmes

Recent Achievements in the Application of SIT Methods for the Suppression of *Aedes albopictus*

Insecticide Resistance in *Aedes aegypti* Populations in Mexico

Effects of Prolonged Colonization on the Biology of *Anopheles gambiae*

Preliminary Survey of Mosquito Species for Evidence of Local Feasibility of Sterile Insect Technique against Dengue Vectors in Kyaukse, Myanmar

Entomo-virological Surveillance of *Aedes aegypti* in Mexico

Screening for *Wolbachia* Infection in Mosquito and other Insect Populations in Ragama, Sri Lanka

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
177	<b>R. Gato-Armas</b> M. Rodríguez R. Bruzon A. Companioni Y. Martínez Z. Menéndez N. Hernández A. González	Cuba
179	<b>H. P. B. K. D. Ramyasoma</b> R. S. Dassanayake Y. I. N. S. Gunawardene W. Abeyewickreme M. N. Hapugoda N. V. Chandrasekeran	Sri Lanka
181	<b>W. Abeyewickreme</b> T. Ranathunga P. A. D. H. N. Gunathilaka N. W. B. A. L Udayanga A. Nahallage-Dona	Sri Lanka
182	<b>B. Ernawan</b> U. S. F. Tambunan D. Tetriana H. I. Sasmita I. Sugoro	Indonesia
188	<b>A. Michaelakis</b> N. Papadopoulos D. Papachristos P. Milonas R. Bellini C. Ioannou	Greece
195	<b>O. Mikov</b> I. Katerinova T. Agushev	Bulgaria
199	<b>J. H. Rammanda Devayalage</b> W. Abeywickrama J. Gilles R. Premarathne M. N. Hapugoda	Sri Lanka

Large Indoor Cage Study of the Suppression of Stable *Aedes aegypti* Populations by the Release of Thiotepa-sterilized Males

CRISPER Cas9-mediated Targeting of Dengue Viral RNA to Block Transmission in *Aedes aegypti* Mosquitoes - In-silico Approach

A Combination of Mechanical and Behavioural Methods for Sex Separation of *Aedes* Mosquitoes for Sterile Insect Technique (SIT) and Incompatible Insect Techniques (IIT)

The Dose-rate Effects of Gamma Irradiation on Longevity, Sterility, Mating Competitiveness and Nix Gene of *Aedes aegypti*

*Aedes albopictus* in Greece: Current State and Future Challenges

Establishment of the Asian tiger mosquito *Aedes albopictus* in Bulgaria: A New Challenge for the Mosquito Control Campaigns

Mating Competitiveness of *Aedes albopictus* (Skuse) Males Exposed to Gamma-rays in Laboratory Cages; Towards Integrated Control through the Sterile Insect Technique (SIT)

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
211	<b>K. R. Dabiré</b> S. P. Sawadogo B. S. Poda D. D. Soma N. S. Somda H. Maiga A. Diabaté G. Gibson J. Gilles	Burkina Faso
227	<b>G. Obra</b> S. Resilva A. M. Javier A. Dimaano	Philippines
237	F. Habel <b>J. Mumford</b> M. Quinlan A. Leach	United Kingdom
239	<b>M. Quinlan</b>	United Kingdom
240	P. Epopa A. Millogo M. C. Collins A. North S. O'Loughlin M. Q. Benedict A. Diabaté	Burkina Faso
241	<b>R. K. Dabiré</b> P. Epopa A. Millogo M. C. Collins A. North F. Tripet M. Q. Benedict A. Diabaté <b>R. K. Dabiré</b>	Burkina Faso

Surveillance of *Anopheles arabiensis* Males Populations Based on Swarms Monitoring and Clay Pots Trapping Systems

Development of the SIT for *Aedes aegypti* in the Philippines: Colony Establishment, Larval Diet Evaluation and Population Monitoring

Delivering Change: Potential Release Patterns and Distribution Systems for the Release of Transgenic Mosquitoes in Burkina Faso

Product or Service? Some of the Distinctions Arising from New Production Development in Mosquito Control

Assessment of Mosquito Presence and Density between Two Villages in Burkina Faso

The Use of Sequential Mark-Release-Recapture Experiments to Estimate Population Size, Survival and Dispersal of Male *Anopheles gambiae s.l.* Mosquitoes

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
264	M. Manni C. R. Guglielmino F. Scolari A. Vega-Rúa A-B. Failloux G. Savini M. Bonizzoni M. Gomulski A. R. Malacrida <b>G. Gasperi</b>	Italy
284	V. Petrella L. Iesu G. Saccone G. Langella B. Caputo A. Della Torre <b>M. Salvemini</b>	Italy

Genetic Evidence for a World-wide Chaotic Dispersion  
Pattern of the Arbovirus Vector, *Aedes albopictus*

Procida Island (Italy, Campania Region): an Optimal Site for  
the Field Testing of Mosquito IPM Control Methods

## POSTERS RELATED TO SESSION 3 ANIMAL HEALTH

<i>No. of Poster IAEA-CN-248-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
7	<b>M. Yasmin</b> A. S. M. Saifullah A. T. M. F. Islam	Bangladesh
25	A. Djiteye B. Diarra <b>I. Sidibe</b>	Mali
68	<b>A. Kato</b> L. Okedi C. Masembe S. Aksoy G. C. Adalgisa F. Scolari A. Malacrida	Uganda
95	<b>J. A. Solorzano</b> <b>Arroyo</b> H. Mena R. Romero J. Treviño J. Gilles C. Geden D. Taylor H. Skovgaard	Costa Rica
103	<b>I. Sidibe</b> I. Tamboura M. Ouedraogo Z. Koudougou L. Percoma A. Sow H. Poda S. Pagabeleguem O. Serdebeogo	Burkina Faso
114	<b>A. T. Barros</b> E. Ravaglia W. Aquino	Brazil
117	H. Cecilia <b>A. H. Dicko</b> S. Arnoux S. Picault J. Bouyer P. Ezanno	France



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Development and Application of Sterile Insect Technique (SIT) to Control/Suppress Blow Fly, *Lucilia cuprina* (Diptera: Calliphoridae) from Coastal Area of Bangladesh

Integrated Control of *Glossina palpalis gambiensis* in the Framework of its Eradication in the Northern Basin of Niger River in Mali

High Level of Multiple Paternities in Wild *Glossina fuscipes fuscipes* Females in Buvuma Islands, Uganda

Biological Control of Livestock Pest Biting Fly *Stomoxys calcitrans* at Agriculture Pineapple Residues Using the Parasitoid *Spalangia endius* Reared on Irradiated Mediterranean Fruit Fly: Assessment of Parasitism in Field and Laboratory in Costa Rica

2006-2016: 10 years of Tsetse and Trypanosomosis Control in Burkina Faso: What Achievements, Impacts and Perspectives in Terms of AW-IPM and SIT Application

Prevalence of Screwworm Myiasis due to *Cochliomyia hominivorax* in Newborn Calves in the Pantanal, Brazil

Controlling the Spatio-temporal Dynamics of Tsetse Flies: Insights from a Mechanistic Model

<i>No. of Poster IAEA-CN-248-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
127	<b>S. Pagabeleguem</b> S. Ravel A. H. Dicko M. Vreysen A. Parker P. Takac K. Huber I. Sidibé G. Gimonneau J. Bouyer	Burkina Faso
131	<b>F. L. Leka</b>	Ethiopia
164	S. Diallo M. T. Seck J-B. Rayaisse A. G. Fall M. Bassene <b>B. Sall</b> M. Vreysen P. Takac A. Parker J. Bouyer G. Gimmoneau	CIRDES
183	<b>G. Cecchi</b> O. Diall G. Wanda R. Argilés-Herrero M. Vreysen G. Cattoli G. Viljoen R. Mattioli J. Bouyer	FAO
207	<b>W. Shereni</b> N. E. Anderson L. Nyakupinda G. Cecchi	Zimbabwe
208	<b>P. James</b> M. Madhav G. Brown	Australia
214	<b>I. Malele</b> E. Lyaruu A. Geiger H. Nyingilili	Tanzania
217	L. Bergamo P. Fresia R. Madueño <b>A. M. Azeredo-Espin</b>	Brazil

Selection of the Best *Glossina* Strain Suited to Local Environmental Conditions of the Target Eradication Area

The Effect of Insecticide Impregnated Livestock Protective Fence of Selected Farmers in Three Kebeles of Arba Minch, Zuria and West Abaya District, Gammo Goffa, SNNPRS, Ethiopia

Quality Control of Sterile Males Provided in the Form of Irradiated Pupae to the Regional Projects of the Tsetse Eradication

A Staged, Progressive Pathway for the Control and Elimination of Tsetse-transmitted African Animal Trypanosomosis

Spatial Distribution and Trypanosome Infection of Tsetse Flies in the Sleeping Sickness Focus of Zimbabwe in the Hurungwe District

Buffalo Flies (*Haematobia irritans exigua*) Expanding their Range in Australia: The Opportunity for Area-wide Controls

Microbiota Diversity in *G. pallidipes* from Three Locations in Tanzania as Revealed by High Throughput Sequencing and their Implication for Tsetse Refractoriness

Populational Study of the New World Screwworm Fly in Peru, *Cochliomyia hominivorax* (Diptera: Calliphoridae)

<i>No. of Poster IAEA-CN-248-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
235	<b>M. Diarra</b> Z. Bcoum H. Maiga Y. Sanogo	Mali
251	<b>G. Demirbas-Uzel</b> A. Parker M. Vreysen R. L. Mach K. Bourtzis A. Abd-Alla	Austria
253	<b>H. Kariithi</b> I. Meki M. Vreysen A. Parker K. Bourtzis A. Abdalla	Austria
261	<b>M. Altuna</b> M. V. Iriarte L. Marques	Uruguay
274	<b>K. L. Dera</b>	Ethiopia
275	A. A. Augustinos I. Meki A. Saridaki G. Demirbas <b>G. Tsiamis</b> M. M. van Oers M. Vreysen A. Parker A. Abd-Alla K. Bourtzis	Greece

African Animal Trypanosomosis (AAT) in the Kadiolo Circle:  
Entomological and Parasitological Survey Results

Analysis the Impact of Irradiation Treatment on the  
Establishment of *Sodalis* in *Glossina morsistans morsitans*  
Species

Identification of Cultivable Tsetse Gut Microbiota and  
Assessment of Their Probiotic Potential to Improve Fly  
Quality and Performance for the SIT

Studies of the Impact of Myiasis in Uruguay: Survey of  
Occurrence in the Department of Artigas during the Winter  
2015

Mass-Rearing of *Glossina fuscipes fuscipes* in the Kality  
Insectary, Addis Ababa, Ethiopia

Contributing to the Resolution of Taxonomic Puzzles:  
Multiple Molecular Tools and Development of Protocols for  
the Accurate Identification of Tsetse Species

**POSTERS RELATED TO SESSION 4  
REGULATORY ISSUES AND SOCIO-ECONOMIC IMPACT**

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27	<b>Z. T. Ratovonomenjanahary</b> O. Andriamampiana V. Rakotomanana A. Raoelijaona	Madagascar
40	<b>I. N. Rakotomalala Andrianavalona</b>	Madagascar
71	<b>A. Mankad</b> B. Loechel P. Measham	Australia
72	<b>H. Kruger</b>	Australia
74	<b>A. Mankad</b> B. Loechel	Australia
123	T. Capon J. Connor J. Kandulu P. Measham H. Parry F. Schwarzmüller M. Tam S. Whitten <b>N. Schellhorn</b>	Australia
168	<b>Y. Bayram</b> D. Dervişoğlu İçel	Turkey
282	<b>D. Cugala</b> S. Ekesi	Mozambique
291	<b>D. Horta-Lopes</b> A. Aguiar A. Dias M. Bettencourt R. Dutra R. Pimentel	ICIFE Portugal

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*Bactrocera dorsalis* (Diptera, Tephritidae) Status in Litchis Orchard in the Eastern Part of Madagascar

*Bactrocera dorsalis* Survey on Mango Orchards in Western Madagascar

Social Factors Influencing the Area-wide Management of Fruit Fly and the Use of Sterile Insect Technology

Industry-driven Area-wide Management of Commercial Pests: Can it Work?

A Predictive Psychosocial Model of Acceptance for the Area-wide Management of Fruit Fly and the Use of Sterile Insect Technology

Evaluating Costs and Benefits of Queensland Fruit Fly Area-wide Management with Linked Spatial Population Simulations and Economic Cost-Effectiveness Models

Pesticide Management in Turkey

Non-host Status as a Component of Area-wide Pest Management for Banana and Papaya to Prevent *Bactrocera dorsalis* Infestation and Facilitate Market Access

The Importance of the Pervermac II Project in the Sustainable Use of Pesticides and its Impact on Human Health in the Macaronesian Area: The Azores Case

**POSTERS RELATED TO SESSION 5  
CLIMATE CHANGE, GLOBAL TRADE AND  
INVASIVE SPECIES**

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
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78	<b>C. Nyamukondiwa</b> R. Motswagole	Botswana
82	<b>F. Sassu</b> C. Cáceres	FAO/IAEA
87	<b>C. Chireceanu</b> A. Teodoru A. Chiriloaie C. Teodorescu	Romania
93	<b>M. Virgilio</b> F. Theeten S. Du B. Hardy A. De Mûelenaere M. De Meyer	Belgium
96	<b>H. Qin</b> G. Yang C. Li	China
98	A. Botta C. Marín <b>N. Sierras</b> R. Cowles	Spain
100	<b>A. Teodoru</b> C. Chireceanu A. Chiriloaie	Romania
102	<b>R. Seth</b> R. K. Seth B. Patil R. Haveri S. Hanchinal Z. Mahtab Z. Khan	India
111	<b>N. Loy</b> N. Sanzharova	Russia



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*Title of Poster*

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Use of Radiation in Phytosanitary Treatment and Control of Quarantine Pests

The Establishment of *Bactrocera dorsalis* Hendel (Diptera: Tephritidae) in Botswana

Development of the Sterile Insect Technique to Manage Confined Populations of *Drosophila suzukii*

Survey on Exotic Fruit Fly Species in Romania

An Updated Multi-entry Identification Key to African Fruit Infesting Dacines (Diptera, Tephritidae: Dacini)

Large Phytosanitary Irradiation (PI) Dedicated E-beam Facility Set Up at Ports

Dealing with Spotted Wing *Drosophila*: New Insights on *Suzukii* Trap® Bait Performance World-wide

Monitoring of the Spotted-Wing *Drosophila* (*Drosophila suzukii* Matsumura) in Romania

Establishing a Generic Radiation Dose as Post-harvest Phytosanitary Treatment against Bruchid Species (Coleoptera: Chrysomelidae) Infesting Legumes

Application of Ionizing Radiation for Abatement with Insect Pests of Grain and Grain Products during Storage

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
150	<b>K. Nikolouli</b> F. Sassú T. Enriquez P. Gibert F. Vavre L. Mouton D. Renault C. Stauffer C. Caceres K. Bourtzis R. Pereira H. Colinet	Austria
155	<b>Z. Zhao</b>	China
172	<b>A. Firlej</b> G. Lanouette M. Vreysen C. Caceres-Barrios F. Fournier V. Martel J. Brodeur	Canada
192	<b>Z. Li</b> F. Jiang Y. Zhang	China
204	<b>M. Siddiqui</b>	Australia
216	<b>D. Horta-Lopes</b> R. Pimentel R. Cabrera Pérez A. Baldé	Portugal
230	<b>N. N. Yin</b>	Myanmar

Managing Cold Tolerance and Quality of Mass-produced *Drosophila suzukii* Flies to Facilitate the Application of Biocontrol through Sterile and Incompatible Insect Techniques

Using Hydrogen Stable Isotope for Tracing of *Bactrocera dorsalis* Hendel (Diptera: Tephritidae) in China  
Radiation Dose Responses of *Drosophila suzukii* (Matsumura) for Use in the Sterile Insect Technique (SIT)

Continuing Practices: the Researches and Applications of Molecular Identification on Economically Important Fruit Flies in China

Exposure of Insect Cells to Ionizing Radiation *In Vivo* Induces Persistent Phosphorylation of a H2AX Homolog (H2avB)

The presence of *Bactrocera dorsalis* Hendel (Diptera: Tephritidae) in the Cape Verde Archipelago

Relationship between Population Fluctuation of Oriental Fruit Fly *Bactrocera dorsalis* Hendel and Abiotic Factors in Yezin, Myanmar

**POSTERS RELATED TO SESSION 6  
NEW DEVELOPMENTS AND TOOLS FOR  
AREA-WIDE INTEGRATED PEST  
MANAGEMENT**

No. of Poster IAEA-CN-248	Name	Designating Member State/Organization
5	<b>H. Mohamed</b> S. El-Naggar	Egypt
11	<b>M. V. Yusef</b> M. M. Viscarret S. N. Lopéz S. C. Michelin H. L. Britos A. Sólis E. S. Pawlak M. Malter-Terrada	Argentina
13	<b>S. L. Wee</b> S. Chinvinijkul K. H. Tan N. Ritsuo	Malaysia
17	<b>S. Sim</b> S. Geib	United States of America
19	<b>E. S. K. Ofori</b> S. A. Bawa M. Billah	Ghana
20	<b>S. Geib</b> S. Sim	United States of America
21	<b>G. Sivakumar</b>	India
22	<b>M. Mansour</b>	Syria

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Title of Poster

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Effect of Some Volatile Oils and/or Gamma Irradiation on the Reproduction of the Greater Wax Moth, *Galleria mellonella* by Using Contact Method

Gamma Radiation Dose to Generate Inherited Sterility in Tomato Leaf Miner *Tuta absoluta* (Meyrick, 1917) (Lepidoptera: Gelechiidae)

A New and Very Potent Male Attractant for the Guava Fruit Fly, *Bactrocera correcta* (Diptera: Tephritidae)

Utilizing Loci Linked to Genetic Sexing Traits to Develop a Robust Diagnostic Assay for Discriminating Genetic Sexing Strain *Bactrocera cucurbitae* from Wild Individuals

Evaluation of Two Trap Types on the Capture of Fruit Flies (Diptera: Tephritidae) in the Assin North Municipality, Ghana

Characterization of Genetic Sexing Traits in Established Mass-rearing Lines for Transfer to Economically Important Tephritid Fruit Fly Species

Characterization of Bacterial Endosymbionts Associated with Leafhopper *Amrasca biguttula biguttula* and Their Role in Imparting Insecticide Resistance

Development and Reproduction of *Trichogramma cacoeciae* on *Ephestia kuehniella* Eggs: Important Factors to Consider

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
31	<b>M. De Cock</b> M. Virgilio A. Willems P. Vandamme A. Augustinos A. De Sciscio L. Bota K. Bourtzis D. Cugala H. Delatte A. Manrakhan N. Papadopoulos C. Weldon M. De Meyer	Belgium
33	<b>N. P. B. Kasturi</b> <b>Arachchilage</b> S. K. Liyanagedara S. P. Aluthge N. E. M. Mahagollage	Sri Lanka
35	<b>A. Shoman</b> M. El-Sheikh S. Elngar S. Ibrahim W. Sayed	Egypt
37	<b>Z. Cai</b> Y. Zhichao H. Wang Y. Li H. Zhang	China
38	Z. Yao A. Wang Y. Li <b>Z. Cai</b> B. Lemaitre H. Zhang	China
52	<b>L. Zeller</b> P. Kamel B. Woods E. Steiner D. Mcinnis B. Renton P. Crisp	Australia
57	<b>G. Saour</b>	Syria

Symbiont Diversity and Feeding Strategies in Insect  
Agricultural Pests

Efficient, User and Environment-Friendly Protein Bait Trap to  
Replace Spot Application in Area-Wide Management of Fruit  
Flies

Studying Stability and Mating Competitiveness of the Genetic  
Sexing Strain of Mediterranean Fruit Fly, *Ceratitis capitata*  
(Wied.)

Molecular Diversity, Function of Gut Bacteria on Improving  
Ecological Fitness of Sterile Male in *Bactrocera dorsalis* Adult  
Flies

The Gut Bacterial Community Homeostasis Regulation of  
Oriental Fruit Fly (*Bactrocera dorsalis*)

Development and Evaluation of an Automated Sterile Fruit  
Fly Dispersal System

Vegetable Oil Supplements to Improve the Basic Larval  
Artificial Diet for the Mass-rearing of the European  
Grapevine Moth (Lepidoptera: Tortricidae)

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88	<b>R. Haveri</b> S. Hanchinal C. Malur S. Surpur Z. Khan Z. Mahtab B. Patil S. Yeshetty R. Seth	India
99	A. Botta C. Marín <b>N. Sierras</b> R. Cowles	Spain
101	<b>P. Rempoulakis</b> P. W. Taylor B. Mainali A. Andrew	Australia
107	<b>H. Hamden</b> M. M'saad F. Dhaouadi A. Cherif	Tunisia



Sperm Behaviour as a Key Tool Ensuring Operative Efficiency of Radio-genetic 'F1 Sterility Technique' for Population Suppression of an Economically Serious Indian Pest, *Spodoptera litura* (Fabr.) (Lepidoptera: Noctuidae) in Laboratory and Field Simulated Cages

Ascertaining the Efficacy of Gamma Radiation on the Flower Webber, *Maruca vitrata* (Fabr.) (Lepidoptera: Crambidae) to establish Inherited Sterility Technique for the Management of this Pigeonpea Pest in India

Rearing *Fopius arisanus* (Hymenoptera: Braconidae) on Irradiated Eggs of *Ceratitis capitata*

The Effects of Bacterial Probiotics Fed to Larvae of Queensland Fruit Fly (*Bactrocera tryoni*): Do They Improve Fitness and Performance Under the Sterile Insect Technique?

Optimising Composition of High Performance Gel-based Larval Diet for Queensland Fruit Fly (*Bactrocera tryoni*) (Diptera: Tephritidae)

Optimization of Semi-synthetic Diet for Quality Mass-rearing of the Legume Pod Borer, *Maruca vitrata* (Fabr.) (Lepidoptera: Crambidae) Towards Employment of 'Inherited Sterility' Technique for Pest Suppression

*Ceratitis capitata* Control on Table Grapes in Spain by the Mass-trapping System Cera Trap®

Intrinsic and Synthetic Stable Isotopes for Reliable Identification of Wild and Mass-reared Queensland Fruit Flies in SIT Programmes

Effects of Gamma Irradiation on the Digestive Enzymatic Activities of Mediterranean Fruit Fly *Ceratitis capitata* (Diptera: Tephritidae)

<i>No. of Poster IAEA-CN-248</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
108	<b>H. Hamden</b> M. M'saad S. Fadhel W. Marzouki A. Cherif	Tunisia
110	<b>H. Hamden</b> M. M'saad K. Charaabi W. Djobbi A. Cherif	Tunisia
115	<b>A. Handler</b> J. Li	United States of America
119	V. R. R. Poluru <b>A. B. Hadapad</b> S. Bevanamar S. Shashank R. S. Hire K. J. Pagadala	India
124	<b>A. B. Hadapad</b> R. S. Hire C. S. Prabhakar	India
128	<b>D. Casado</b> I. De Alfonso C. Alfaro	Spain
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137	<b>S. Fadhel</b> M. M'saad Guerfali W. Marzouki L. Sillini M. Saidi	Tunisia
152	<b>Y. Mabrouk</b> N. Majdoub O. Belhadj	Tunisia
154	<b>H. Nguyen Thi Thanh</b> T. Vu Thi Thuy T. Vu Van L. Ha Thi Kim K. Le Duc	Viet Nam
159	<b>H. Berger</b> R. Hood-Nowotny	Austria

Probiotic Potential of *Ceratitis capitata* Gut Microbiota for the Enhancement of Sterile Insect Technique

Diversity of the Bacterial Community of the Reproductive System of the Mediterranean Fruit Fly, *Ceratitis capitata* (Diptera: Tephritidae) and the Trapping Activity of Metabolites from the Cultivable Species

Genomic Engineering of Fruit Fly Pest Species to Improve their Control by Biologically-based Methods

Pilot Studies on the Optimization of the SIT through Gamma Radiation for the Oriental Fruit Fly, *Bactrocera dorsalis* (Hendel) (Diptera: Tephritidae)

Distribution and Molecular Characterization of Endosymbiotic *Wolbachia* Bacteria Associated with Different Indian *Bactrocera* Fruit Fly Species

From BioLure to Magnet MED: Over 20 years of Sutterra's Commitment to the Sustainable Control of the Mediterranean Fruit Fly

Expression Pattern of the Mediterranean Fruit Fly-specific Odorant-binding-protein CcapOBP83a-2 in Response to Gamma-irradiation

Effects of Gamma Radiation on the Sperm Viability of Mediterranean fruit Fly *Ceratitis capitata* (Diptera: Tephritidae)

Isolation and Characterization of Some *Bacillus thuringiensis* Strains from Tunisian Soil with Insecticidal Activity against Mediterranean Fruit Fly: *Ceratitis capitata*

Influence of Adult Diet in the Mating Performance and Longevity of *Bactrocera correcta* in Viet Nam

Determination of *Ceratitis capitata* (Mediterranean Fruit Fly) Feed Sources by Microbial Community Analysis

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163	<b>E. Llacer- Archelós</b> M. Catala A. Urbaneja M. Pérez-Hedo	Spain
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175	<b>M. Msaad Guerfali</b> K. Charaabi H. Hamden S. Fadhel W. Marzouki A. Cherif	Tunisia
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191	<b>L. Liu</b> Y. Dai Z. Li	China
193	<b>C. Schafellner</b> G. Mich	Austria
194	<b>B. Almayyahi</b>	Iraq

Efficiency Enhancement of Sterile Insect Technique by Vectoring Entomopathogenic Fungi

New Molecular Tool for Improving SIT in *Ceratitis capitata*: Evaluation of Sperm Transfer During Mating by Absolute Quantification RT-PCR

Influence of Mating Status on the Pathogenicity of *Providencia rettgeri* against a Mass-reared Strain of the Mediterranean Fruit Fly *Ceratitis capitata* (Diptera: Tephritidae)

Probiotic Enrichment and Consequences on Hsp 70 and Cecropin Expression of Mass-reared Strain of *Ceratitis capitata* (Diptera: Tephritidae)

Molecular Regulation of Pupal Diapause Development and Termination in Chinese Citrus Fly *Bactrocera minax*

Identification and Manipulation of Symbiotic Bacteria Associated with *Bactrocera dorsalis* and *Bactrocera minax*

Evaluation and Transfer of Quality Control Procedures from the Laboratory to Industrial Scales for the *Bactrocera dorsalis* Salaya1 Genetic Sexing Strain

The Complete Mitochondrial Genome of *Bactrocera tsuneonis* (Diptera: Tephritidae) by Next-generation Sequencing

Comparison of Bacterial Communities Associated with *Bactrocera correcta* (Diptera: Tephritidae) from Four Geographical Populations

The Sterile Insect Technique (SIT) as a Novel Approach to Study Polydnviruses of Parasitic Wasps in their Hosts

Defence against Insect Pests Using Peaceful Applications of Nuclear Technology

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200	<b>H. M. Ahmed</b> E. A. Wimmer	Sudan
201	<b>V. Simoes Dias</b> <b>De Castro</b> D. Hahn	Brazil
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245	<b>N. Zahran</b> G. M. Hegazy H. M Salem W. Elsayed	Egypt
266	<b>W. Wakil</b> M. Yasin	Pakistan
268	<b>A. Malacrida</b> G. Gasperi F. Scolari L. M. Gomulski	Italy
280	A. A. Andongma Y. Wang M. Adnan K. Khaeso A. Mazarin <b>C. Niu</b>	Cameroon

Advanced Integrated Pest Management - Chemical Control Via Microencapsulation  
Optimization and Use of CRISPR/Cas9 to Engineer Sperm-marked Strains of the Invasive Fruit Pest *Drosophila suzukii*  
Can Transgenic Flies Overexpressing Antioxidant Enzymes Blunt Radiation-induced Oxidative Stress, Improve Mating Success, and Inhibit Remating?  
RapidAIM: Real-time Alerts of the Presences and Location of Fruit Fly

Raspberry Ketone Increases Survival and Reduces Sterile Male *Bactrocera tryoni* Froggatt Response to Cue-lure: Implications for Sterile Insect Technique Programmes

Impact of Isolated Fungi *Purpureocillium lilacinum* on the Digestive Enzymes of *Ceratitis capitata* Wiedemann (Diptera: Tephritidae)

Development of a Biotechnologically Enhanced Sterile Insect Technique to Fight Coleopteran Insect Pests

Distribution of Viruses Infecting Yams in Ghana and Nigeria

Effect of Gamma Radiation on Electrophoretic Total Protein Patterns of Peach Fruit Fly, *Bactrocera zonata*

Novel Approaches to Control Invasive Red Palm Weevil, *Rhynchophorus ferrugineus* (Olivier)  
Chemoreception as an Adaptive Trait in the Highly Invasive Fruit Fly *Ceratitis capitata* (Diptera, Tephritidae)

Identification and Manipulation of Symbiotic Bacteria Associated with *Bactrocera dorsalis* and *Bactrocera minax*

No. of Poster IAEA-CN-248	Name	Designating Member State/Organization
281	<b>Štefančič, M.</b> M. Štefančič J. Zupanc D. Šuc B. Božič	Slovenia
290	J. R. Falerio A. B. Abdallah A. S. Aldawood H. Abdel Farag Elshafie W. Urrutia R. Silva C. Bernardi K. Villagran J. Saroli <b>A. Mafra-Neto</b>	United States of America



Forecasting Insect Activity Utilizing Large Network of Automated Traps and Artificial Intelligence

HOOK RPW and ISCA Smart Traps: Revolutionary new tools for the management of the Red Palm Weevil in Gulf countries

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Representatives of the press, radio, television or other information media and members of the public, the latter as 'observers', may also be authorized to attend, but without the right to take part in the proceedings.

Scientists interested in participating in any of the IAEA meetings should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

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Many of the App features can be accessed without logging in. However to enjoy all the features of the App you will need to log in with your individual event code. This code was emailed to all registered participants approximately one week before the conference.

### App Features

The App has a number of very useful features. Inter alia it allows you to:

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- Message other participants (log in is required)
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### **2017**

International Conference on the IAEA Technical Cooperation Programme: Sixty Years and Beyond - Contributing to Development, 30 May-1 June 2017, Vienna, Austria

International Conference on Topical Issues in Nuclear Installation Safety: Safety Demonstration of Advanced Water Cooled NPPs, 6-9 June 2017, Vienna, Austria

International Conference on Advances in Radiation Oncology (ICARO2), 20-23 June 2017, Vienna, Austria

International Conference on Fast Reactors and Related Fuel Cycles (FR17), Yekaterinburg, Russian Federation, 26-29 June 2017

Scientific Forum: Nuclear Technology for Human Health: Prevention, Diagnosis and Treatment, 19-20 September 2017, Vienna, Austria

Fourth International Conference on Nuclear Power Plant Life Management (PLiM), 23-27 October 2017, Lyon, France

International Ministerial Conference on Nuclear Power in the 21st Century, 30 Oct.- 1 Nov 2017., Abu Dhabi, UAE

International Conference on Physical Protection of Nuclear Material and Nuclear Facilities, 13-17 November 2017, Vienna, Austria

International Conference on Radiation Protection in Medicine: Achieving Change in Practice, 11-15 December 2017, Vienna, Austria

## 2018

Third International Conference on Human Resource Development for Nuclear Power Programmes: Meeting Challenges to Ensure the Future Nuclear Workforce Capability, 28-31 May 2018, Gyeongju, Republic of Korea

International Symposium on Uranium Raw Material for Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues (URAM-2018), 25-29 June 2018, Vienna, Austria

International Symposium on Plant Mutation Breeding and Biotechnology, 6-10 August 2018, Vienna, Austria

International Symposium on Communicating Nuclear and Radiological Emergencies to the Public, 1-5 October 2018 Vienna, Austria

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSOs) in Enhancing Nuclear Safety and Security, 15-19 October 2018, Brussels, Belgium

27th IAEA Fusion Energy Conference (FEC-2018), 22-27 October 2018, Ahmedabad, India

Symposium on International Safeguards, 5-9 November 2018, Vienna, Austria

Ministerial Conference on Nuclear Science, Technology and Applications for Peaceful Uses, November 2018, Vienna, Austria

International Conference on Global Radioactive Material Security Governance, 3-7 December 2018, Vienna, Austria

For complete information on forthcoming scientific meetings, please consult the IAEA conference web site:  
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## NOTES



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Conference website:

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