

Eighth International Conference on Management of the Diamondback Moth and Other Crucifer Insect Pests



Background

Crucifers such as cabbage, cauliflower, broccoli, mustard, radish, and several leafy greens are economically important vegetables vital for human health. These nutritious vegetables provide muchneeded vitamins and minerals to the human diet especially vitamins A and C, iron, calcium, folic acid, and dietary fiber. Crucifers also are capable of preventing different types of cancer.

The diamondback moth (DBM), Plutella xylostella, is the most serious crucifer pest worldwide. In addition, head caterpillar (Crocidolomia pavonana), web worm (Hellula undalis), butterflies (Pieris spp.), flea beetle (Phyllotreta spp.) and aphids (Brevicoryne brassicae, Lipaphis erysimi, Myzus persicae) also cause significant yield losses in crucifers. Farmers prefer to use chemical pesticides for controlling this pest because they have an immediate knock-down effect and are easily available when needed in local markets. Pesticides constitute a major share in the total production cost of crucifer crops, accounting for about 38% of the cost of production of major crucifer crops in India and about 49% in the Philippines. As a result, pest resistance to insecticides is on the rise, leading farmers to spray even more pesticides. Insecticide resistance, environmental degradation, human health impacts, resource loss and economic concerns have triggered a growing interest in integrated pest management (IPM).

Previous International Workshops on Management of the Diamondback Moth and Other Crucifer Insect Pests

The International Working Group on DBM and Other Crucifer Insects is an informal group of researchers worldwide who are actively engaged in research and development in crucifer pest management. This research group participates in an international workshop on the management of DBM and other crucifer insect pests that occurs every five to six years. The first and second workshops were organized by Asian Vegetable Research and Development Center (AVRDC) in Taiwan in 1985 and 1990. The third workshop was organized by the Malaysian Agricultural Research and Development Institute in Kuala Lumpur in 1996. The fourth workshop was organized in Australia in 2001 and the fifth workshop was organized by the Chinese Academy of Agricultural Sciences in Beijing in 2006. The sixth workshop was organized by AVRDC – The World Vegetable Center in Thailand in 2011 and the seventh workshop was organized by the University Agricultural Sciences Bangalore in 2015. Additional details and proceedings of these workshops can be found at http://web. entomology.cornell.edu/shelton/diamondback-moth/



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The Eighth International Conference on Management of the Diamondback Moth and Other Crucifer Insect Pests will be organized by the World Vegetable Center in association with Cornell University (USA). The workshop will be held during March 4-8, 2019 at Shanhua, Tainan, Taiwan. About 100 – 150 researchers worldwide are expected to participate and present research papers. The conference is designed to provide a common forum for the researchers to share their findings in bio-ecology of insect pests, host plant resistance, biological control, pesticides and insect resistance management on crucifer crops. As with previous workshops, a comprehensive publication of the proceedings will be published.

Scientific Sessions

- 1. Diamondback moth and other crucifer pests: The global challenge in a changing climate
- 2. Biology, ecology and behavior of diamondback moth and other crucifer pests
- 3. Insect plant interactions, host plant resistance and chemical ecology of crucifer pests
- 4. Insecticide resistance and management in crucifer pests
- 5. Biological and non-chemical methods of management of crucifer pests (including organic agriculture)
- 6. Genetic approaches to manage crucifer pests
- 7. At the farm and landscape level: Barriers to and innovations for management of crucifer pests



Call for papers: 1 October - 2 February 2019 Registration: 1 October 2018 - 9 February 2019

Registration Fee:

Individual:	USD
Students:	USD
Accompanying Persons: (Not entitled to receive conference material)	USD

500 400 and one farewell dinner.

750 Registration fee includes conference materials, lunch and coffee during the conference, field visit, one welcome

Abstract Submission:

Please prepare the abstract using the template available (https://bit.ly/2xNQBDo) and submit to: paola.sotelo@worldveg.org and ariel.wu@worldveg.org

Registration: https://bit.ly/2xNQBDo

Scientific Committee:

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