ONLINE ISSN : 1349-0923
PRINT ISSN : 1348-589X

Journal of Pesticide Science
Vol. 33 (2008) , No. 2 pp.103-121

[PDF (266K)] [References]

Biorational insecticides in pest management

Gloria Rosell[1)], Carmen Quero[2)], Josep Coll[2)] and Angel Guerrero[2)]

1) Department of Pharmacology and Therapeutic Chemistry, Unity Associated to CSIC, Faculty of Pharmacy, University of Barcelona
2) Department of Biological Organic Chemistry, IIQAB (CSIC)

(Received: March 27, 2008)
(Accepted for publication: April 4, 2008)

Abstract:
We present herein a review article of the latest developments of the biorational approaches in pest management appeared in the literature from 1997 to date. The proposed advantages of the biopesticides including their specificity, safety to non-target organisms, particularly mammals, and utilization in low, sometimes minute, amounts have led to an intensive research program by public and private institutions resulting in an avalanche of reports in attempts to discover and develop newer and safer pesticides, particularly in the past three decades. This review is divided into three main chapters, including microbial insecticides in pest control, utilization of semiochemicals, and botanical insecticides, paying particular attention to those practical approaches that are respectful to the environment.

Keywords:
Biopesticides, microbial insecticides, semiochemicals, insect pheromones, botanical insecticides, integrated pest management (IPM)

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To cite this article:

Gloria Rosell, Carmen Quero, Josep Coll and Angel Guerrero, “Biorational insecticides in pest management”. *J. Pestic. Sci.* Vol. **33**, pp.103-121 (2008) .

doi:10.1584/jpestics.R08-01
JOI JST.JSTAGE/jpestics/R08-01