

1. Record Nr.	UNINA9910765763203321
Titolo	Insecticidal Bacterial Toxins in Modern Agriculture // edited by Juan Ferre and Baltasar Escriche
Pubbl/distr/stampa	Basel : , : MDPI, , 2018 ©2018
ISBN	3-03842-663-6
Descrizione fisica	1 online resource (162 pages) : illustrations
Disciplina	615.95299
Soggetti	Bacterial toxins
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>About the Special Issue Editors .v -- Juan Ferre and Baltasar Escriche  Editorial for Special Issue: The Insecticidal Bacterial Toxins in Modern Agriculture Reprinted from: Toxins 2017, 9(12), 396; doi: 10.3390/toxins9120396 .1 -- Zahia Djenane, Farida Nateche, Meriam Amziane, Joaquin GomisCebolla, Fairouz ElAichar, Hassiba Khorf and Juan Ferre Assessment of the Antimicrobial Activity and the Entomocidal Potential of Bacillus thuringiensis Isolates from Algeria Reprinted from: Toxins 2017, 9(4), 139; doi: 10.3390/toxins9040139 .5 -- Rooma Adalat, Faiza Saleem, Neil Crickmore, Shagufta Naz and Abdul Rauf Shakoori In Vivo Crystallization of ThreeDomain Cry Toxins Reprinted from: Toxins 2017, 9(3), 80; doi: 10.3390/toxins9030080 .24 -- Yolanda Bel, Nuria Banyuls, Maissa Chakroun, Baltasar Escriche and Juan Ferre Insights into the Structure of the Vip3Aa Insecticidal Protein by Protease Digestion Analysis Reprinted from: Toxins 2017, 9(4), 131; doi: 10.3390/toxins9040131 .37 -- Yueqin Wang, Jing Yang, Yudong Quan, Zhenying Wang, Wanzhi Cai and Kanglai He Characterization of Asian Corn Borer Resistance to Bt Toxin Cry1le Reprinted from: Toxins 2017, 9(6), 186; doi:10.3390/toxins9060186 50 -- Yiyun Wei, Shuwen Wu, Yihua Yang and Yidong Wu Baseline Susceptibility of Field Populations of Helicoverpa armigera to Bacillus thuringiensis Vip3Aa Toxin and Lack of CrossResistance between Vip3Aa and Cry Toxins Reprinted from: Toxins 2017, 9(4), 127; doi: 10.3390/toxins9040127 .61 -- Aubrey R. Paolino and Aaron J. Gassmann Assessment of Inheritance</p>

and Fitness Costs Associated with Field Evolved Resistance to Cry3Bb1 Maize by Western Corn Rootworm Reprinted from: *Toxins* 2017, 9(5), 159; doi: 10.3390/toxins9050159 .68 -- Andrew J. Bowling, Heather E. Pence, Huarong Li, Sek Yee Tan, Steven L. Evans and Kenneth E. Narva

Histopathological Effects of Bt and TcdA Insecticidal Proteins on the Midgut Epithelium of Western Corn Rootworm Larvae (*Diabrotica virgifera virgifera*) Reprinted from: *Toxins* 2017, 9(5), 156; doi: 10.3390/toxins9050156 .87 -- Haichuan Wang, Seongil Eyun, Kanika Arora, Sek Yee Tan, Premchand Gandra, Etsuko Moriyama, Chitvan Khajuria, Jessica Jurzenski, Huarong Li, Maia Donahue, Ken Narva and Blair Siegfried

Patterns of Gene Expression in Western Corn Rootworm (*Diabrotica virgifera virgifera*) Neonates, Challenged with Cry34Ab1, Cry35Ab1 and Cry34/35Ab1, Based on Next Generation Sequencing Reprinted from: *Toxins* 2017, 9(4), 124; doi: 10.3390/toxins9040124 .101 -- Yannick Pauchet, Anne Bretschneider, Sylvie Augustin and David G. Heckel

A PGlycoprotein Is Linked to Resistance to the *Bacillus thuringiensis* Cry3Aa Toxin in a Leaf Beetle Reprinted from: *Toxins* 2016, 8(12), 362; doi: 10.3390/toxins8120362 .114 -- Yonghui Li, Yanmin Liu, Xinming Yin, Jorg Romeis, Xinyuan Song, Xiuping Chen, Lili Geng, Yufa Peng and Yunhe Li

Consumption of Bt Maize Pollen Containing Cry1Ie Does Not Negatively Affect *Propylea japonica* (Thunberg) (Coleoptera: Coccinellidae) Reprinted from: *Toxins* 2017, 9(3), 108; doi: 10.3390/toxins9030108 .126 -- Oxana Skokova Habustova, Zdenka Svobodova, Ludovit Cagan and Frantisek Sehnal

Use of Carabids for the PostMarket Environmental Monitoring of Genetically Modified Crops Reprinted from: *Toxins* 2017, 9(4), 121; doi: 10.3390/toxins9040121 .136.

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#### Sommario/riassunto

Increased awareness about environmental adverse effects of human activities has prompted the use of insecticides with low impact on systems associated to agriculture. Currently, the most successful biological products are based on protein toxins from the bacterial species *Bacillus thuringiensis*. Because of the remarkable properties of these proteins, their encoding genes were introduced into farming species (the so called Bt-crops), in such a way, that these plants are self-protected against some key insect pests. Despite the fact that a relatively large number of these toxins, with different toxicity ranges, have been described, it is still important to find new resources with novel capabilities to complement, or to replace in the future, the currently used ones. On another hand, it is important to continue studying their mode action in susceptible insects, and the changes occurred in resistant ones, to determine the most effective strategy for long lasting pest control. The focus of this Special Issue of *Toxins* is to provide updated information on the use of *B. thuringiensis* and their toxins on different field crops, the interactions of these toxins with other molecules, analyze the biochemical and molecular basis of emerging cases of resistance and, in general, to provide information which can contribute to an effective pest management with these toxins.

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