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# Insecticidal Toxins from Bacillus thuringiensis 2021–2022

Guest Editors:

#### Prof. Dr. Alejandra Bravo

Instituto de Biotecnología, Universidad Nacional Autónoma de México, Cuernavaca 62250, Mexico

#### Prof. Dr. Mario Soberon

Instituto de Biotecnología, Universidad Nacional Autónoma de México, Cuernavaca 62250, Mexico

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#### **Message from the Guest Editors**

*Bacillus thuringiensis* (Bt) and *Lysinibacillus sphaericus* are soil born bacteria that produce a variety of toxins with specificity against different insect species or nematodes. One of the most important characteristics of the toxins produced by these bacteria is their high specificity against their target organisms, showing no toxicity against other insects or to humans. Different Bt and *L sphaericus* strains have been used to make products highly effective in the control insect pests or insects that are vectors of human diseases. Additionally, the genes of certain Bt toxins have been expressed in plants for the efficient control of crop pests.

This Special Issue will focus on progress in the characterization of novel insecticidal Bt and *L. sphaericus* toxins, including Cry, Cyt, Vip, Vpa, Vpb, App, Xbp, Mpp, Mtx, Spp, Tpp, and Gpp. Studies concerning their expression regulation, mode of action, structure, and synergism among these proteins as well as analysis of the resistance mechanisms and intracelular responses in the different targets are welcome. This knowledge is likely to provide a sustainable method of use for this technology for insect pest and nematode control.









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### **Editor-in-Chief**

**Prof. Dr. Jay Fox** Department of Microbiology, University of Virginia, Charlottesville, VA, USA

### Message from the Editor-in-Chief

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*Toxins* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/toxins toxins@mdpi.com X@Toxins\_Mdpi