Topical Collection

Insect Immunity: Evolution, Genomics and Physiology

Message from the Collection Editor

Innate immunity mediated by humoral and cellular components plays a pivotal role in combating infectious pathogens and sustaining life throughout all organisms, including insects. Insect genome studies have revealed that many immune molecules have been evolutionally conserved between insects and vertebrates. While insect immune responses result from the orchestration of immune molecules, insects can maintain immunological homeostasis to control immune processes and minimize devastating effects on survival and reproduction through the coordination of multiple signal pathways. Recent studies demonstrate that insect immune systems are more complex than previously thought, and unveiling the mechanisms of insect immune systems provides a unique opportunity to better understand insect biology.

Collection Editor

Dr. Hyeogsun Kwon

Department of Plant Pathology, Entomology and Microbiology, Iowa State University, Ames, IA 50011, USA

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Insects
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
insects@mdpi.com

mdpi.com/journal/insects

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Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Brian T. Forschler
Department of Entomology, University of Georgia, 413 Biological Sciences Building, Athens, GA 30602-2603, USA

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