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Endocrine and Metabolic Regulation in Insects

Guest Editors:

Dr. Wen Liu
1. College of Plant Sciences & Technology, Huazhong Agricultural University, Wuhan 430070, China
2. Department of Biological Sciences, University of Alberta, Edmonton, AB T6G 2R3, Canada

Dr. Suning Liu
School of Life Sciences, South China Normal University, Guangzhou, China

Deadline for manuscript submissions:
closed (31 July 2023)

Message from the Guest Editors

Insects, as the most numerous and diverse organisms on Earth, are highly adaptative to biotic and abiotic environmental factors, such as microbes, viruses, plant metabolites, nutrients, seasonal shifts, etc. The endocrine systems of insects, in response to environmental stimuli, influence numerous biological processes, including growth, development, reproduction and behavior, achieving a physiological resistance to cope with adverse conditions. Complicated metabolic events, including nutritional homeostasis and functional metabolite production, are highly regulated during these processes.

In this Special Issue, we aim to collect research that is relevant to insect hormone biosynthesis, hormone-regulated metabolic and nutritional homeostasis, insect metabolomics, the interactions between insects and plant metabolites, and the effects of microbial metabolites on insects.

We welcome original research articles as well as in-depth reviews covering these topics.

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Editor-in-Chief

Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy
2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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Contact Us

Metabolites Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/metabolites
metabolites@mdpi.com
𝕏@MetabolitesMDPI