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Venom Components Acting on the Hemostatic System: Structural and Mechanistic Insights

Guest Editors:

Dr. Russolina Benedeta Zingali
Laboratório de Hemostase e Venenos, Instituto de Bioquímica Médica Leopoldo de Meis, Universidade Federal do Rio de Janeiro, Rio de Janeiro 21.941-902, Brazil

Dr. Robson Monteiro
Laboratório de Trombose, Câncer e Inflamação, Instituto de Bioquímica Médica Leopoldo de Meis, Universidade Federal do Rio de Janeiro, Rio de Janeiro 21.941-902, Brazil

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Message from the Guest Editors

Venoms from different species of animals contain components, mainly proteins, and peptides, that can interfere with various physiopathological processes, including cancer, inflammation, neurotransmission, immune responses, cell growth, apoptosis, hemostasis, and others. The effects of crude venom from snakes on hemostasis have been recorded since the late 1700s. A large variety of molecules that interfere in the hemostatic process have been isolated, and their mechanisms of action characterized. For instance, molecules that perturb the hemostatic system can display pro or anticoagulant effects, activate or inhibit platelet aggregation, interfere in clot dissolution, and interfere with endothelial cells. This Special Issue focuses on the structural–activity relationship of some of these molecules and points to their mechanism of action.

Moreover, the applications of these molecules and derived analogs as tools for investigation, diagnosis, or use in drugs will also be presented and discussed.

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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
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