Insights into Fish Venoms

Guest Editors:

Dr. Carla Lima
Immunoregulation Unit of the Laboratory of Applied Toxinology (CeTICs/FAPESP), Butantan Institute, São Paulo 05503900, Brazil

Prof. Dr. Mônica Lopes-Ferreira
Immunoregulation Unit of the Laboratory of Applied Toxinology (CeTICs/FAPESP), Butantan Institute, São Paulo 05503900, Brazil

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Message from the Guest Editors

The production of toxins by fish is an important strategy that guarantees their survival in a highly competitive ecosystem. Venomous fish produce a distinct combination of toxic components, including peptides and proteins with particular noxious characteristics. Venomous fish have been studied to learn more about the pathophysiology of the envenomation in humans and to identify the biochemical nature of their toxins. Recently, investigations of cellular and molecular mechanisms adjacent to fish envenoming have mapped genes and receptors in innate cells that recognize these molecules and, consequently, new pharmacological targets. Furthermore, the identification of new protein families in fish venoms and their characterization as molecules that are responsible for immune defense, signaling, and development have challenged old notions on their role as a toxin. Today, there is great interest from the pharmaceutical industry in exploring molecules derived from venomous fish for drug development.

This Special Issue aims to collate the current scholarly work on fish venoms from active scholars and researchers.

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Special Issue

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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