

Special Issue

Venoms and Ion Channels 2.0

Message from the Guest Editor

Venoms from marine and terrestrial animals (cone snails, scorpions, spiders, snakes, centipedes, cnidarian, etc.) can be seen as an untapped cocktail of biologically active compounds, being increasingly recognized as new emerging source of peptide-based therapeutics. Ion channels account for the action potential of excitable cells, and their malfunction relates to many diseases. As such, they form an important drug target. Venoms and their components have also shown to be highly selective ligands for a wide range of ion channels and receptors. Neurotoxins thus represent interesting lead compounds for the development of, for example, analgesics, anticancer drugs, and drugs for neurological disorders, such as multiple sclerosis, Parkinson's disease, Alzheimer's, etc. This Special Issue aims to provide a comprehensive look at venoms and their components and will focus on the mechanism of action, structure–function, and evolution of pharmacological interesting venom components, including but not limited to recent developments relating to the emergence of venoms as an underutilized source of highly evolved bioactive peptides with clinical potential.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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