Special Issue

Natural Toxins/Molecules (and Derivatives) from Animal Venoms: from Basic Research to Therapeutic Applications 2019

Message from the Guest Editor

Venomous animals (e.g., scorpions, snakes, sea anemones, cone snails, worms, wasps and frogs) are invaluable natural sources of biologically-active compounds that target a variety of receptors/molecules (ion channels, enzymes, etc.). These compounds are generally highly potent, but can display variable selectivities. Interestingly, a number of molecules from venoms reportedly possess some therapeutic potential to treat pain, microbial infections, and more or less severe pathologies such as cancer, autoimmune and neurological diseases. This special issue of *Molecules* is devoted to the many aspects of marine and non-marine toxins/molecules (and derivatives thereof) from animal venoms, including their pharmacological properties, structural characteristics, structure-function relationship, molecular engineering/drug design, and therapeutic value. All scientists and clinicians working in these emerging and promising fields of research are strongly encouraged to submit their original works for publication in this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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