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Molecular Mechanisms in Anaphylaxis

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Deadline for manuscript submissions:

closed (30 December 2022)

Message from the Guest Editor

Anaphylaxis (AX) is the most severe manifestation of allergic disorders, being a systemic hypersensitivity lifethreatening reaction that evolves rapidly. Among the most frequent triggers are food, drugs, and hymenoptera venoms. The plethora of features associated with AX confers difficulties in its diagnosis, impairing the ability to adequately treat these severe reactions. Generally, the diagnosis is carried out according to the clinical symptoms, which are common to many other pathologies, so confirmation through in vitro markers and knowledge about their molecular mechanisms is advisable. Mast cells and basophils are recognized as effector cells eliciting the anaphylactic reaction. However, many other cells and mediators are also relevant. Moreover, the release of mediators causes an endothelial barrier breakdown. This fact produces an increase in vascular permeability and a leakage of fluids, which have influence in two decisive and severe factors (hypotension and hypoxia). Thus, the primary purpose of this Special Issue is to collect scientific contributions providing novel insight into the molecular mechanisms of AX







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Message from the Editor-in-Chief

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