

Special Issue

New Insights into the Role of Mitochondria in Inflammation

Message from the Guest Editor

Mitochondria contain their own DNA genome (mtDNA) and they change their shape and number in response to physiological or metabolic conditions and guard against deleterious stresses that preserve cellular homeostasis. In addition to their dynamic behavior in programmed cell death and metabolism, mitochondria are now considered central platforms in the control of innate immunity and inflammatory responses. These organelles have emerged as being necessary for both the establishment and maintenance of innate and adaptive immune cell responses. In this Special Issue, we aim to discuss the new insights into the role of mitochondria in coordinating proinflammatory signaling, starting from their key function in modulating the innate immunity response and further investigating mitochondrial dysfunction in different diseases known to be supported and promoted by inflammation. Moreover, we will discuss the therapies that target the mitochondria-driven inflammatory response.

Guest Editor

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