



Stress Signaling and Programmed Cell Death

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Message from the Guest Editor

Organisms are continuously exposed to various types of stress from external and internal environments. In order to protect cells against such stresses, each cell is equipped with multiple signal transduction systems that elicit a wide range of cellular responses to adapt to or resist such stresses. These signal transduction systems are often described as “stress signaling”. Compelling evidence indicates that the dysregulation of stress signaling induces aberrant responses to stresses, which is responsible for various diseases. Programmed cell death (PCD) is perceived as a crucial event during development and tissue formation. As a stress response, PCD also plays a critical role in the elimination of cells suffering severe stress-induced damage to maintain homeostasis within multicellular organisms, and a number of stress signaling pathways are involved in the regulation of PCD. In this Special Issue, studies of novel signaling mechanisms and pathological processes associated with PCD are welcome.





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