Special Issue

Inflammatory Responses and Immunity under Stress

Message from the Guest Editor

Activation of stress response systems such as the autonomic nervous system (ANS) and hypothalamicpituitary-adrenal (HPA) axis is imperative for survival and adaptation. Since Hans Selve published his first manuscript on the general adaptation syndrome, stress research has provided insights into how the ANS and HPA axis interact and modulate key immune functions, yet much remains to be discovered. Chronic exposure to stressors together with unhealthy lifestyle factors. such as a lack of good-quality sleep, reduces coping capacity. The resulting chronic allostatic load and activation of stress response systems can greatly affect immunity towards all types of pathogens and may lead to immune dysfunction, hypersensitivity or autoimmune disease. In this Special Issue, we welcome research articles as well as reviews covering recent advances in stress-modulated innate and adaptive immune functions, molecular and cellular mechanisms as well as integrative physiology and stress biomarker research. We also encourage contributions from research on extreme environments/earth-bound space flight analogues employing stressors such as isolation and confinement.

Guest Editor

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closed (30 April 2024)



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Message from the Editor-in-Chief

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