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Immunity in Viral or Bacterial Infections

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Deadline for manuscript
submissions:

closed (6 June 2023)

Message from the Guest Editors

Dear Colleagues,

Mitophagy is one of the most important types of autophagy, which maintains the homeostasis of mitochondria by sequestering and transferring abnormal mitochondria to the lysosome for degradation. Mitophagy plays a crucial role in controlling different kinds of cell biological activities such as proliferation, survival, and death. Increasing evidence suggests that mitophagy is also involved in modulating immune responses, particularly innate immune responses during viral and bacterial infection.

During infection, viral infection can alter mitochondrial homeostasis and activate the mitophagy pathway to generate phagosomes as ideal spaces for replication. Additionally, some viruses and bacteria upregulate host cell mitophagy to reduce mitochondria-dependent activating signaling, resulting in the reduction of inflammation responses and limiting the viral clearance. Furthermore, viruses such as HBV can control mitophagy to prevent cell death, which in turn increases the viral replication in the same cell.

This Special Issue aims to discuss new discoveries in mitophagy and innate immunity in viral or bacterial infection.

Dr. Jianzhu Liu
Dr. Rui Li
Guest Editors



mdpi.com/si/116620

Special Issue



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Message from the Editor-in-Chief

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