

Special Issue

Exosomes Biogenesis, Regulation, and Function in Viral Infections

Message from the Guest Editors

During exosome biogenesis, specific molecules of cellular and pathogenic origin are selectively incorporated, including proteins, lipids, and RNAs. These molecules play an essential role in cell-to-cell communication, as exosome's cargo can be transferred to recipient cells by endocytosis to modulate their environment. Viral infections have evolved to exploit exosomal machinery, by incorporating specific cellular or viral factors within exosomes and transferring them to recipient cells. Thus, exosomes from infected cells can evade the host immune system as they are resistant to neutralization by antibodies and promote viral spread by infecting adjacent cells. However, the investigation into the role of exosomes in viral infections is still being elucidated. In this Special Issue, we would like to give a comprehensive overview of the recent discoveries in exosome biogenesis, function, and regulation in viral pathogenesis. Additionally, this Special Issue also aims to identify specific viral signatures in exosomes with next-generation approaches, as this is essential for future therapeutic strategies for viral infections.

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