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Capsid Protein

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Message from the Guest Editors

The virus capsid protein is classically a structural element of the virion responsible for encapsidation of the viral genome and nucleocapsid assembly. Capsid proteins are, however, known to play a multifunctional role in the virus replication cycle. Capsid proteins have been shown to modulate virus replication and disrupt host cell mechanisms, such as transcription, often blocking host cell defences. Subcellular trafficking is one mechanism used by capsid proteins that allows them to carry out a diverse range of nonstructural functions. Mostly an essential element of the virus repertoire and produced in large quantities during infection, capsid proteins are regularly targeted for antiviral development and vaccinology. Capsid proteins have also found utility in bioengineering, as nanoparticle delivery vehicles.

This Special Issue of *Life* seeks all types of manuscripts (e.g., reviews, original research articles, and short communications) on capsid protein, including articles describing recent structural, biochemical, and virological studies that have advanced our understanding of capsid protein.



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Special Issue



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Message from the Editor-in-Chief

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