Special Issue

Examining the Cellular Biology of Adenovirus

Message from the Guest Editors

Adenoviruses are non-enveloped, double-stranded DNA viruses typically 90–100 nm in size that cause a variety of respiratory, gastrointestinal and ocular infections in a range of host species. Since their discovery in 1953, they have provided crucial insights into cellular biological mechanisms such as eukaryotic transcription, RNA splicing and cell cycle control. The use of adenoviruses as a toolbox to study fundamental cellular biology has also expanded their use as therapeutic agents. In recent years, adenovirus vectors have been developed for use in oncolytic virotherapy, in gene therapy and as vaccines against diverse pathogens. For example, during the COVID-19 pandemic, 4 out of 12 emergency use licensed vaccines were derived from adenoviruses. In this Special Issue, we will compile both review and research articles focusing on adenovirus biology and cellular interactions. The scope of this issue will include, but will not be limited to, virus binding and entry, intracellular trafficking, replication and assembly. Understanding the fundamental mechanisms of adenovirus biology will help design and develop advanced therapeutics in the future.

Guest Editors

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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