



Rotaviruses and Rotavirus Vaccines

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Message from the Guest Editors

Rotaviruses are a major cause of acute gastroenteritis in infants and young children and in the young of various mammalian and avian hosts. Although rotavirus-associated morbidity and mortality have significantly decreased since the implementation of childhood vaccination programs, vaccine efficacy is still suboptimal in developing countries where vaccines are needed most. The molecular epidemiology of rotaviruses has benefitted from the application of advanced sequencing and bioinformatic techniques. Since 5 years ago, plasmid-only-based reverse genetics systems have been available and produced an enormous boost in both basic and translational research.

The aim of this Special Issue of *Viruses* is to review and explore recent progress made in the analysis of viral replication, viral diversity, genotype–phenotype assignment, correlates of protection, biotechnology, and the development of alternative candidate vaccines.

Keywords

- rotaviruses
- molecular biology
- reverse genetics
- molecular epidemiology
- vaccine development





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