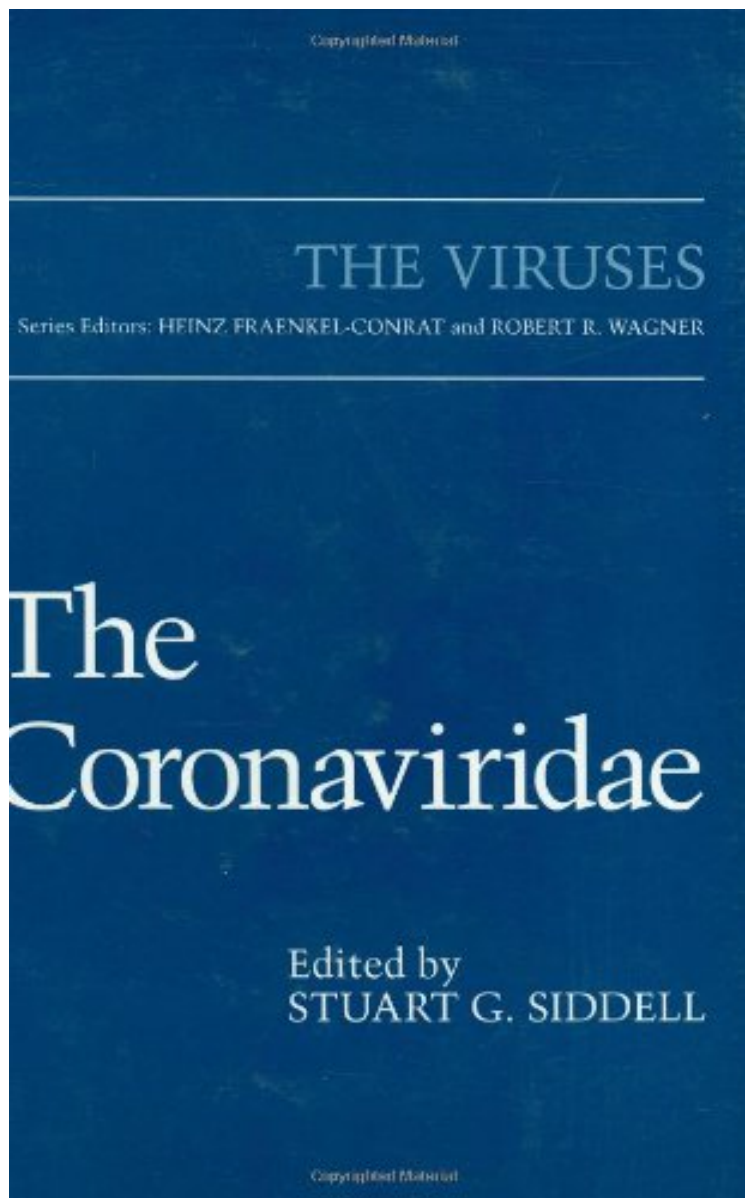


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The Coronaviridae (The Viruses)

From Stuart G Siddell

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From Stuart G Siddell : The Coronaviridae (The Viruses) before purchasing it in order to gauge whether or not it would be worth my time, and all praised The Coronaviridae (The Viruses):

Coronaviruses were recognized as a group of enveloped, RNA viruses in 1968 and accepted by the International Committee on the Taxonomy of Viruses as a separate family, the Coronaviridae, in 1975. By 1978, it had become evident that the coronavirus genomic RNA was infectious (i. e. , positive strand), and by 1983, at least the framework of the coronavirus replication strategy had been perceived. Subsequently, with the application of recombinant DNA techniques, there have been remarkable advances in our understanding of the molecular biology of coronaviruses, and a mass of structural data concerning coronavirus genomes, mRNAs, and proteins now exists. More recently, attention has been focused on the role of essential and accessory gene products in the coronavirus replication cycle and a molecular analysis of the structure-function relationships of coronavirus proteins. Nevertheless, there are still large gaps in our knowledge, for instance, in areas such as the genesis of coronavirus subgenomic mRNAs or the function of the coronavirus RNA-dependent RNA polymerase. The diseases caused by coronaviruses have been known for much longer than the agents themselves. Possibly the first coronavirus-related disease to be recorded was feline infectious peritonitis, as early as 1912. The diseases associated with infectious bronchitis virus, transmissible gastroenteritis virus, and murine hepatitis virus were all well known before 1950.