

**Classification of viruses<sup>♦</sup>**  
**The Negative Stranded ssRNA Viruses (-ssRNA)**

<b>Order</b>	<b>Family</b>	<b>Subfamily</b>	<b>Type Species</b>	<b>Host</b>
<b>Mononegavirales</b>	<i>Bornaviridae</i>		<i>Borna Disease Virus</i>	<b>Verteb.</b>
	<i>Filoviridae</i>		<i>Zaire Ebola virus, Marburg virus</i>	<b>Verteb.</b>
	<i>Paramyxoviridae</i>	<i>Paramyxovirinae</i>	<i>Sendai virus, Measles virus, Mumps virus</i>	<b>Verteb.</b>
		<i>Pneumovirinae</i>	<i>Human respiratory syncytial virus, Turkey rhinotracheitis virus</i>	<b>Verteb.</b>
	<i>Rhabdoviridae</i>		<i>Vesicular stomatitis virus, Rabies</i>	<b>Verteb.</b>
			<i>Lettuce necrotic yellow virus, Potato yellow dwarf virus</i>	<b>Plants</b>
	<i>Orthomyxoviridae</i>		<i>Influenza A virus, Influenza B virus, Influenza C virus</i>	<b>Verteb.</b>
	<i>Bunyaviridae</i>		<i>Bunyamwera virus, California encephalitis virus, Hantaan virus, Rift valley fever virus</i>	<b>Verteb.</b>
			<i>Tomato spotted wilt virus</i>	<b>Plants</b>
	<i>Arenaviridae</i>		<i>Hepatitis D virus, Lymphocytic choriomeningitis virus, lassa virus</i>	<b>Verteb.</b>

<sup>♦</sup> (H.Niazmand) This classification obtained from ICTV 2002 and prepared for undergraduates and should not use for higher education levels.

### The dsRNA Viruses

<b>Order</b>	<b>Family</b>	<b>Subfamily</b>	<b>Type Species</b>	<b>Host</b>
	<i>Reoviridae</i>		<i>Rotavirus A</i> , <i>Colorado tick fever virus</i>	<b>Verteb.</b>
	<i>Totiviridae</i>		<i>Saccharomyces cerevisiae virus L-A</i> ,	<b>Fungi</b>
			<i>Giardia lamblia virus</i> , <i>Leishmania RNA virus 1-1</i>	<b>protozoa</b>

### The ssDNA Viruses

<b>Order</b>	<b>Family</b>	<b>Subfamily</b>	<b>Type Species</b>	<b>Host</b>
	<i>Parvoviridae</i>		<i>B19 virus</i> , <i>Adeno-associated virus 2</i>	<b>Verteb.</b>

**The Positive Stranded ssRNA Virus (+ssRNA)**

Order	Family	Subfamily	Type Species	Host
	<i>Picornaviridae</i>		<i>Poliovirus, Echovirus, Coxsackievirus A,B, Human rhinovirus A, Hepatitis A virus, Footh -and -mouth disease virus</i>	Verteb.
	<i>Caliciviridae</i>		<i>Norwalk virus, Hepatitis E virus</i>	
	<i>Astroviridae</i>		<i>Human astrovirus 1</i>	
<b>Nidovirales</b>	<i>Coronaviridae</i>		<i>Infectious bronchitis virus, SARS virus</i>	Verteb.
	<i>Flaviviridae</i>		<i>Yellow fever virus, Hepatitis C virus</i>	Verteb.
	<i>Togaviridae</i>		<i>Sindbis virus, Rubella virus</i>	Verteb.
			<i>Tobacco mosaic virus, Peanut clump virus</i>	Plants

**The dsDNA Viruses**

Order	Family	Subfamily	Type Species	Host
<b>Caudivirales</b>	<i>Myoviridae</i>		<i>Entrobacteria Phage T4, SP01</i>	Bacteria
	<i>Siphoviridae</i>		<i>Entrobacteria Phage λ</i>	
	<i>Podoviridae</i>		<i>Entrobacteria phage T7, P22, φ 29</i>	
	<i>Poxviridae</i>	<i>Cordopoxvirinae</i>	<i>Vaccinia virus, Smallpox virus, Molluscum contagiosum virus</i>	Verteb.
		<i>Entomopoxvirinae</i>		Inverteb
	<i>Baculoviridae</i>			Inverteb (insects)

<b>Order</b>	<b>Family</b>	<b>Subfamily</b>	<b>Type Species</b>	<b>Host</b>
	<i>Herpesviridae</i>	<i>Alphaherpesvirinae</i>	<i>Human herpesvirus 1, 2, Varicella zoster virus</i>	Verteb.
		<i>Betaherpesvirinae</i>	<i>Human herpesvirus 5, CMV</i>	
		<i>Gammaherpesvirinae</i>	<i>Human herpesvirus 4, EBV</i>	
	<i>Adenoviridae</i>		<i>Human adenovirus 2</i>	
	<i>Polyomaviridae</i>		<i>Simian virus 40, JC virus, BK virus</i>	
	<i>Papillomaviridae</i>		<i>Human papillomavirus 16</i>	

### The DNA and RNA Reverse Transcribing Viruses

<b>Order</b>	<b>Family</b>	<b>Subfamily</b>	<b>Type Species</b>	<b>Host</b>
	<i>Hepadnaviridae</i>		<i>Hepatitis B virus, Duck hepatitis B virus</i>	Verteb.
	<i>Caulimoviridae</i>		<i>Cauliflower mosaic virus</i>	Plants
	<i>Retroviridae</i>		<i>Human immunodeficiency virus 1, 2</i>	Verteb.