

Viral Taxonomy

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Family	Subfamily	Genus	Representative species pathogenic for humans (no. of members)
DNA Viruses			
Poxviridae	Chordopoxvirinae	Orthopoxvirus	Vaccinia virus Smallpox virus (variola)
		Parapoxvirus	Orf virus (contagious pustular dermatitis) Pseudocowpox virus (milker's nodule)
		Yatapoxvirus Molluscipoxvirus	Yaba- and tanapox viruses Molluscum contagiosum virus
Herpesviridae	Alphaherpesvirinae	Simplexvirus	Human herpesvirus 1 (Herpes simplex virus type 1) Human herpesvirus 2 (Herpes simplex virus type 2)
		Varicellovirus	Human herpesvirus 3 (Varicella-zoster virus)
		Betaherpesvirinae	Cytomegalovirus
	Roseolovirus		Human herpesvirus 6 (human B lymphotropic virus) Human herpesvirus 7
	Gammaherpesvirinae	Lymphocryptovirus	Human herpesvirus 4 (Epstein-Barr virus)
Hepadnaviridae			Orthohepadnavirus
Adenoviridae		Mastadenovirus	Adenoviruses (49)
Papovaviridae		Papillomavirus	Papillomaviruses (70)
		Polyomavirus	BK virus (Polyomavirus hominis 1) JC virus (Polyomavirus hominis 2)
Parvoviridae		Parvovirus	Human parvovirus B19 (erythema infectiosum or fifth disease) and RA-1 virus
RNA Viruses			
Reoviridae		Orthoreovirus	Reoviruses (3)
		Coltivirus	Colorado tick fever virus
		Orbivirus	Kemerovo virus
		Rotavirus	Human rotaviruses (>6)
Togaviridae		Alphavirus	Western, Eastern, and Venezuelan equine encephalitis viruses, Sindbis and Semliki Forest viruses (group A arboviruses, mosquito-borne) (~26)
		Rubivirus	Rubella virus
Flaviviridae		Flavivirus	St. Louis, Japanese B, and Murray Valley encephalitis viruses; yellow fever, dengue, and West Nile fever viruses (group B arboviruses, mosquito-borne) (~26)

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RNA Viruses (Continued)			Kyasanur Forest disease, Omsk hemorrhagic fever, European and Far Eastern tick-borne encephalitis viruses (tick-borne) (~12) Vector-unassociated viruses (~17)
		Hepacavirus	Hepatitis C virus (parenterally transmitted non-A, non-B hepatitis)
Coronaviridae		Coronavirus	Human coronaviruses (2)
Paramyxoviridae	Paramyxovirinae	Paramyxovirus	Parainfluenza viruses (4) Mumps virus
	Pneumovirinae	Morbillivirus	Measles virus
		Pneumovirus	Respiratory syncytial virus
Filoviridae		Filovirus	Marburg and Ebola viruses
Rhabdoviridae		Vesiculovirus	Vesicular stomatitis virus
		Lyssavirus	Rabies virus
Orthomyxoviridae		Influenzavirus	Influenza virus types A (many) and B (several)
		Influenza C virus	Influenza virus type C
Bunyaviridae		Bunyavirus	Bunyamwera virus (Bunyamwera serogroup), California encephalitis and LaCrosse viruses (California serogroup), viruses of other serogroups (mosquito-transmitted) (>145)
		Phlebovirus	Sandfly fever viruses, Rift Valley fever virus (sandfly-borne primarily) (>30); Uukuniemi and other viruses (tick-transmitted) (~12)
		Nairovirus	Crimean-Congo hemorrhagic fever virus, viruses of five other serogroups (tick-transmitted) (>33)
		Hantavirus	Hantaan virus (Korean hemorrhagic fever or hemorrhagic fever with renal syndrome), Muerto Canyon virus (Four Corners virus, Hantavirus pulmonary syndrome), and others (rodent- associated) (~9)
Arenaviridae		Arenavirus	Lymphocytic choriomeningitis virus Lassa fever virus Junin (Argentine hemorrhagic fever virus) Machupo (Bolivian hemorrhagic fever virus)
Retroviridae		HTLV-BLV viruses	Human T-lymphotropic viruses I and II
		Lentivirus	Human immunodeficiency viruses 1 and 2
Caliciviridae		Calicivirus	Norwalk and Norwalk-like gastroenteritis viruses (>5)
		Hepevirus	Hepatitis E virus (enterically transmitted non-A, non- B hepatitis)
Picornaviridae		Enterovirus	Polioviruses (3) Coxsackie A viruses (23) Coxsackie B viruses (6) Echoviruses (32) Enteroviruses 68-71 (4)
		Hepatovirus	Hepatitis A virus (enterovirus 72)
		Rhinovirus	Common cold viruses (>115)