

# Taxonomy of important human and animal viruses

Vers. 10.12.01

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family viridae	Genus Virinae	Assembly Cytopl. Nucleus Virion egress	Genom Grösse	Spazielle	Genom Struktur	Replikation	Typ/Group	Sero Prev. norm. Pop. Europ.	Host egress / receptor	Carcinoma Disease	Host range	Latency Integration Persistence		
RNA + ss nonseg nonenv	<b>Corona</b>	Asteri	27-30	7-8	3 polyAAA			human Astervirus Corona229E/d27 transm. Gastroenteritis		diarrhea children normal cold diarrhea	narrow narrow			
	<b>Picorna</b>	Hepato	30-120	16-21	5' VPg, 3' poly A, ORF overlapping, no subgenomic RNA, REE, polyprot processing			<b>Hepatitis A</b> Coaxkie A/B Polio Enter	10%		yellow skin, Hepatitis diarrhea	narrow	persistence	
		Enter	18-35	7-8				<b>Foot+Mouth</b> Rhinovirus						
		Aphtho Rhino												
	<b>Calici</b>	Calici		8				Norwalk like (NLV, SRS, Hu CV) Sapporo/Lago Vesivirus Hepatitis E	50%		diarrhea	narrow		
	RNA + ss nonseg env	<b>Toro Arteri</b>	Toro		20	5' cap, 3' polyAAA, tRNA			Borna horses Breda calves					
		<b>Flavi</b>	Flavi	30-38	10	No poly AAA, IORF, capsid protein S, tRNA			Yellow fever Onkox fever Russian spring enc. Dengue Jap. Enc. FSME Hep G GB(A,B,C)	<1%		encephalitis hepatitis diarrhea	limited vertebrate or wide Hepathotrop	
			Pesti						<b>Pestivirus</b> Bovine Virus Diarr. V classical swine fever					
			Hepe	40-60	9.6				<b>Hep C</b> Rubella Chikunganga Western equin. enc. Border disease sheep	1%		hepatitis livercarcinoma		persistence
		<b>Toga</b>	Rubella		9	5' cap, subgenomic RNA, no overlapping RNA, read trough			Rossoviver Sindbis Selmiki Forest		Rac: Cxcl4 HLA		only humans	
			Alpha		12									
		<b>Plant viroid</b>			36	1.6			Hepatitis D			hepatitis		persistence
	RNA - ss nonseg env	<b>Rhabdo</b>	Rubies Vesicula Lyssa		13-16	ORF overlapping, self complementary endRNA dep RNA-polymerase			Rhabies Piry / Isfahan Vesicula Stomatitis Lyssa		Rac: Acetylcholinreceptor	Rhabies Vesicles tong and lips	broad	
		<b>Filo</b>	Filo	ca.800	19	RNA dep RNA-polymerase			Ebola Marburg Borna			Hemorrhagic fever		
		<b>Para myxo</b>	Morbilli	120-200		ORF overlapping, self complementary endRNA dep RNA-polymerase, RNA, RNA, poly, RNA, S'3' sea- transcript			Maselles Rinderpest Respiratory Syncytial Mumps Parainfluenza Sendai Newcastle		Rac: Sialylglycoconide			persistence
Pneumo Paramyxo				15										
<b>Ortho myxo</b>		Ortho myxo	80-120	20	8 RNA's, RNA, RNA-poly, ORF overlapping, self comp. end			Influenza A/B Influenza C		Rac: Sialylglycoconide Rac: Sialylglycoconide		cold, Flu, Influenza	humans, horses, birds, seals	
RNA +/- ss seg env	<b>Bunya</b>	Hanta Bunya Phlebo	100-120	20	10-12 RNA's, ORF overlapping			Hantaan La cross Rift Valley Sandfly			Hemorrhagic fever encephalitis	rodents arthropods humans are infected		
	<b>Arena</b>	Arena	80-120		ORF overlapping, self comp. end			Lassa Lymphocytic Choriomeningitis Bol. Arg. Meningo fever			Lymphocytic choriomeningitis			
	<b>Reo</b>	Rota Orbi	60-80	16-21	10-12 RNA's, ORF overlapping, early 5' capped, late uncapped, OH3			Human Rota Orbong Bluetongue		Signalatory 3' endRNA dep, early ORF overlapping -> RFP resistance	asymptomatic or weak illness	very wide		
<b>Birna</b>	Birna	60	7	5' capped, 3' OH			Bursal disease of Chicken			no human pathogene	wide			
RNA + ss nonseg env DNA step	<b>Retro</b>	Lenti Spuma Onco	80-120	20	1-RNA, Retrotranscriptase			HIV, SimianIV HTLymphocyteV MuLV, AMV Human Spuma Rous sarcoma	0.05%	small RNA's, DNA dependent-RF resistance Rac: CD4+ Cells	AIDS	wide vertebrate	integration	
	<b>Parvo</b>	Parvo	18-35	5	needs S-phase transition for replication			Parvo B19 Rheumatoid/Assoz 1 Transf. Transm. Virus Adeno associated TTV	40% 80%		fifth disease no disease	narrow spec spec wide		
	<b>Circo</b>	Dependo												
DNA ds/ss env nonseg	<b>Hepa tna</b>	Hepadna	42	3.2	own RNA-poly			Hepatitis B	0.2%	preS2/S3 IgE	hepatitis, hepatochellular carcinoma	host spec	persistence	
	<b>Papova</b>	Polyoma	40-60	7	DNA meth. histones			Lymphotropic Poly. Simian vesiculatig Adeno associated TTV			PML warts	narrow host and tissue spec	persistence	
		Papilloma						Papilloma 1-48					persistence	
		Mast- adeno Avianad	60-80	36-38	terminal protein 5' covalently linked			Human Adeno 1-49		E3 MHC transport cleaving, VA-swing transit. vital Rac: MHC		narrow	persistence	
	<b>Herpes</b>	Alpha	120-300		Latency			Simplex (HSV-1) Equine HV-1 Varzella Zoester	40-70%	E: Fc, bly, gCheck, complement		local pustula abortion zoester	narrow host and tissue spec	latency
		Beta Gamma	100-200					Cytomegalo Muromegalo Ebstein Barr Marek's disease Herpes Saimiri Rhaden		Rac: HLA, Heparinsulfatase, MHC Rac: gamma, CD21			latency persistence	
	<b>Pox</b>	Orthopox Parapox	250-400	130-300	own RNA-poly			Cowpox Vaccinia Variola Pseudocoxpox		Rac: Epidermal growth factor	local pustula vaccine Smallpox	narrow		
	<b>Irido</b>		200-300	150-190				African swine fever		Rac: EPOR/Haemoglobin	African swine fever			

RNA viruses

DNA viruses