

Genome & Physical Characteristics				Virus Family					
Type	Nucleic Acid Description		Envelope	Name	Summary		Disease Examples		
DNA	ds = double stranded		enveloped	Baculoviridae	DNA	DS	enveloped		
				Herpesviridae	DNA	DS	enveloped	Infectious bovine rhinotracheitis, EHV-Rhinopneumonitis, MCF	
				Iridoviridae	DNA	DS	enveloped		
				Poxviridae	DNA	DS	enveloped	Bovine papular stomatitis, Cowpox, Lumpy skin D.	
				Asfarviridae	DNA	DS	enveloped	African swine fever virus	
			nonenveloped	Adenoviridae	DNA	DS	non-envel'd	Eq, Bov, Can, etc. - Resp.& GI disease	
				Caulimoviridae	DNA	DS	non-envel'd		
				Myoviridae	DNA	DS	non-envel'd		
				Phycodnaviridae	DNA	DS	non-envel'd		
				Tectiviridae	DNA	DS	non-envel'd		
ss = single stranded	nonenveloped	Circoviridae	DNA	SS	non-envel'd				
		Parvoviridae	DNA	SS	non-envel'd	Porcine, Canine, Feline panleukopenia			
ds / ss		enveloped	Hepadnaviridae	DNA	DS/SS	enveloped			
RNA	ds	positive	nonsegmented	enveloped	Cystoviridae	RNA	DS + non-seg	enveloped	
			segmented	nonenveloped	Birnaviridae	RNA	DS + seg	non-envel'd	
		ss	positive	nonsegmented	enveloped	Reoviridae	RNA	DS + seg	non-envel'd
	Coronaviridae					RNA	SS + non-seg	enveloped	Bov, Can, TGE, FIP, Porc.Epid.Diarrh., SARS
	Flaviviridae					RNA	SS + non-seg	enveloped	Bovine virus diarrhea , Border disease, West Nile virus, Hog cholera, Yellow fever
	Togaviridae					RNA	SS + non-seg	enveloped	EEE, WEE, VEE, Rubella
	Arteriviridae					RNA	SS + non-seg	enveloped	EVA, PRRSV
	negative		nonsegmented	nonenveloped	Astroviridae	RNA	SS + non-seg	non-envel'd	
					Caliciviridae	RNA	SS + non-seg	non-envel'd	Bov.Cal.Ent., Fel.Cal.Resp., Ves.Exanth.Swine
					Picornaviridae	RNA	SS + non-seg	non-envel'd	FMD, Swine Vesc. D., Human Polio
					Potyviridae	RNA	SS + non-seg	non-envel'd	
					DNA Repl'n/Rev.Transcript	enveloped	Retroviridae	RNA	SS + DNA step
	negative & ambisense	segmented	enveloped	Orthomyxoviridae	RNA	SS - seg	enveloped	Equine influenza, Swine flu., Avian flu., Human flu.	
				Filoviridae	RNA	SS - non-seg	enveloped	Ebola, Marburg	
				Paramyxoviridae	RNA	SS - non-seg	enveloped	P13, BRSV, Rinderpest, Peste de pestitis ruminants, Newcastle	
				Rhabdoviridae	RNA	SS - non-seg	enveloped	Rabies, Vesicular stomatitis-In1&NJ, Ves.Stom.-In2&3, Bovine ephemeral fever	
Arenaviridae				RNA	SS -&AS seg	enveloped			
Bunyaviridae	RNA	SS -&AS seg	enveloped	Hanta virus					

Blue Highlight - Animal Virus families of veterinary interest

Red bold letters indicate animal virus families or reportable diseases that are foreign to the US.

Yellow Highlight - Animal Virus families of veterinary interest in which persistent infection occurs or is a possibility.