

## Abbreviations for vertebrate virus species names

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### Introduction

Plant virologists have taken the initiative in the development of a standardized system of abbreviation of virus names in response to the particular problems associated with the naming of plant viruses [1–3]. There is now a compelling case for extending these efforts to embrace all viruses irrespective of their host organisms. Increasing awareness of the diversity of viruses and greater reliance on storage of information in electronic databases call for standardization of abbreviations to avoid ambiguity. The accurate recovery of information from databases is dependent on the existence of unique abbreviations for virus names. For example, the species name *Hepatitis C virus* is often abbreviated to HCV in the titles of papers and currently approximately 20% of the publications in the Medline database can only be accessed using the abbreviation rather than the virus name. Fortunately in this case there is no significant overlap. In other cases there can be confusion. For example, the abbreviation RSV is not unique and a database search will recover papers on *Rous sarcoma virus*, *Rice stripe virus*, *Human respiratory syncytial virus* and *Bovine respiratory syncytial virus*. In its 7th Report [4] the International Committee on Taxonomy of Viruses (ICTV) has recommended the use of RSV for *Rous sarcoma virus* on grounds of historical priority, and HuRSV and BRSV for human and bovine respiratory syncytial viruses respectively. Although the overlap with *Rice stripe virus* remains unresolved, in practice it causes little confusion. However, it would be better if the overlap did not exist.

There are now some 4,000 virus names listed by the ICTV and without some conventions it will become increasingly difficult to devise unique abbreviations for every virus. This list of recommended abbreviations for vertebrate virus species names is being published as a reference document to diminish the risk of duplication when new abbreviations are proposed.

Although the ICTV is responsible for controlling, approving and recording the names of virus taxa and has a formal International Code [5] that guides this activity, it has no constitutional responsibility for assigning abbreviations. Nonetheless it does assign a recommended abbreviation for every virus name. It is obviously a desirable aim that a standard abbreviation should be used for any particular virus in all publications.

Three of the four principles governing the assignment of abbreviations to plant viruses [1–3] are also applicable to viruses infecting other organisms. These principles are the following:

1. that abbreviations should be the simplest possible;
2. that an abbreviation must not duplicate any other previously coined and still in current usage;
3. that the word “virus” in a name is abbreviated as “V”.

Plant virologists have compiled guidelines [3] indicating how the abbreviations used in the 7th ICTV Report [4] were derived, and advising how virologists should proceed when creating new abbreviations. Several of the guidelines refer to the specific pathogenic effects of plant viruses on their hosts, but the following have applicability to other viruses:

1. Abbreviations that use the same letters, but differ only by the case used (upper or lower) should be avoided;
2. abbreviations for single words should not normally exceed 2 letters;
3. secondary letters in abbreviations are omitted when their use would make the abbreviation excessively long, exceeding 5 letters;
4. abbreviations in current and widespread usage are retained except where their use could cause confusion. (It is accepted nonetheless that some abbreviations are unlikely ever to be changed.)

The following list of abbreviations of the names of vertebrate viruses has been compiled from the 7th Report of the ICTV (4) to provide an accessible source of recommended abbreviations. The abbreviations listed in Table 1 are limited to the names of ratified virus species. The names of tentative species, serotypes, strains and other categories have been excluded. The immediate aim is to devise a catalogue of unique abbreviations for virus species. Some ambiguity can be tolerated in the assignment of abbreviations to categories below the species level provided that these abbreviations do not conflict with abbreviations assigned to species.

There are some anomalies in the naming of vertebrate viruses, which have still to be resolved. The problem is most acute in the case of arthropod-borne viruses. For example, in the families *Arenaviridae* and *Bunyaviridae* the names of several viruses are themselves still in the form of abbreviations and it is not appropriate to assign an additional abbreviation until a scientific name has been agreed. In other instances no abbreviation has been recommended by the ICTV Study Group; e.g. *Crimean-Congo haemorrhagic fever virus*. In other situations an abbreviation applied to a synonym may have greater currency than the approved taxonomic name; e.g. EBV for Epstein-Barr virus is likely to be favored for some time by its familiarity rather than the abbreviation HHV-4 derived from the recently revised species name *Human herpesvirus 4*. Similarly there are some examples where the abbreviation corresponds to a synonym previously used and now out of usage like SFV for *Rabbit fibroma virus* (synonym Shope fibroma virus).

The list in Table 1 is presented as a starting point for the progressive development of a system of unambiguous abbreviations of the names of vertebrate virus species.

**Table 1.** Vertebrate virus species name abbreviation index

Vertebrate virus species names listed in the 7th Report of the ICTV [4] with their recommended abbreviation, arranged by family in alphabetical order. Strain, serotype, genotype, clade or isolate names, and virus names with no assigned abbreviation, have been omitted

Virus name	Abbreviation	Family
<i>Bovine adenovirus A</i>	(BAdV-A)	<i>Adenoviridae</i>
<i>Bovine adenovirus B</i>	(BAdV-B)	<i>Adenoviridae</i>
<i>Bovine adenovirus C</i>	(BAdV-C)	<i>Adenoviridae</i>
<i>Canine adenovirus</i>	(CAdV)	<i>Adenoviridae</i>
<i>Equine adenovirus A</i>	(EAdV-A)	<i>Adenoviridae</i>
<i>Equine adenovirus B</i>	(EAdV-B)	<i>Adenoviridae</i>
<i>Fowl adenovirus A</i>	(FAdV-A)	<i>Adenoviridae</i>
<i>Fowl adenovirus B</i>	(FAdV-B)	<i>Adenoviridae</i>
<i>Fowl adenovirus C</i>	(FAdV-C)	<i>Adenoviridae</i>
<i>Fowl adenovirus D</i>	(FAdV-D)	<i>Adenoviridae</i>
<i>Fowl adenovirus E</i>	(FAdV-E)	<i>Adenoviridae</i>
<i>Goose adenovirus</i>	(GoAdV)	<i>Adenoviridae</i>
<i>Human adenovirus A</i>	(HAdV-A)	<i>Adenoviridae</i>
<i>Human adenovirus B</i>	(HAdV-B)	<i>Adenoviridae</i>
<i>Human adenovirus C</i>	(HAdV-C)	<i>Adenoviridae</i>
<i>Human adenovirus D</i>	(HAdV-D)	<i>Adenoviridae</i>
<i>Human adenovirus E</i>	(HAdV-E)	<i>Adenoviridae</i>
<i>Human adenovirus F</i>	(HAdV-F)	<i>Adenoviridae</i>
<i>Murine adenovirus A</i>	(MAdV-A)	<i>Adenoviridae</i>
<i>Ovine adenovirus A</i>	(OAdV-A)	<i>Adenoviridae</i>
<i>Ovine adenovirus B</i>	(OAdV-B)	<i>Adenoviridae</i>
<i>Porcine adenovirus A</i>	(PAdV-A)	<i>Adenoviridae</i>
<i>Porcine adenovirus B</i>	(PAdV-B)	<i>Adenoviridae</i>
<i>Porcine adenovirus C</i>	(PAdV-C)	<i>Adenoviridae</i>
<i>Tree shrew adenovirus</i>	(TSAAdV)	<i>Adenoviridae</i>
<i>Amapari virus</i>	(AMAV)	<i>Arenaviridae</i>
<i>Flexal virus</i>	(FLEV)	<i>Arenaviridae</i>
<i>Guanarito virus</i>	(GTOV)	<i>Arenaviridae</i>
<i>Ippy virus</i>	(IPPYV)	<i>Arenaviridae</i>
<i>Junín virus</i>	(JUNV)	<i>Arenaviridae</i>
<i>Lassa virus</i>	(LASV)	<i>Arenaviridae</i>
<i>Latino virus</i>	(LATV)	<i>Arenaviridae</i>
<i>Lymphocytic choriomeningitis virus</i>	(LCMV)	<i>Arenaviridae</i>
<i>Machupo virus</i>	(MACV)	<i>Arenaviridae</i>
<i>Mobala virus</i>	(MOBV)	<i>Arenaviridae</i>
<i>Mopeia virus</i>	(MOPV)	<i>Arenaviridae</i>
<i>Oliveros virus</i>	(OLVV)	<i>Arenaviridae</i>
<i>Paraná virus</i>	(PARV)	<i>Arenaviridae</i>
<i>Pichinde virus</i>	(PICV)	<i>Arenaviridae</i>
<i>Piritai virus</i>	(PIRV)	<i>Arenaviridae</i>
<i>Sabiá virus</i>	(SABV)	<i>Arenaviridae</i>
<i>Tacaribe virus</i>	(TCRV)	<i>Arenaviridae</i>
<i>Tamiami virus</i>	(TAMV)	<i>Arenaviridae</i>
<i>Whitewater Arroyo virus</i>	(WWAV)	<i>Arenaviridae</i>
<i>Equine arteritis virus</i>	(EAV)	<i>Arteriviridae</i>
<i>Lactate dehydrogenase-elevating virus</i>	(LDV)	<i>Arteriviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Porcine respiratory and reproductive syndrome virus</i>	(PRRSV)	<i>Arteriviridae</i>
<i>Simian hemorrhagic fever virus</i>	(SHFV)	<i>Arteriviridae</i>
<i>African swine fever virus</i>	(ASFV)	<i>Asfarviridae</i>
<i>Bovine astrovirus</i>	(BAstV)	<i>Astroviridae</i>
<i>Duck astrovirus</i>	(DAstV)	<i>Astroviridae</i>
<i>Feline astrovirus</i>	(FAstV)	<i>Astroviridae</i>
<i>Human astrovirus</i>	(HAstV)	<i>Astroviridae</i>
<i>Ovine astrovirus</i>	(OAstV)	<i>Astroviridae</i>
<i>Porcine astrovirus</i>	(PAstV)	<i>Astroviridae</i>
<i>Turkey astrovirus</i>	(TAstV)	<i>Astroviridae</i>
<i>Infectious bursal disease virus</i>	(IBDV)	<i>Birnaviridae</i>
<i>Infectious pancreatic necrosis virus</i>	(IPNV)	<i>Birnaviridae</i>
<i>Yellowtail ascites virus</i>	(YTAV)	<i>Birnaviridae</i>
<i>Borna disease virus</i>	(BDV)	<i>Bornaviridae</i>
<i>Acara virus</i>	(ACAV)	<i>Bunyaviridae</i>
<i>Akabane virus</i>	(AKAV)	<i>Bunyaviridae</i>
<i>Alajuela virus</i>	(ALJV)	<i>Bunyaviridae</i>
<i>Andes virus</i>	(ANDV)	<i>Bunyaviridae</i>
<i>Anopheles A virus</i>	(ANAV)	<i>Bunyaviridae</i>
<i>Anopheles B virus</i>	(ANBV)	<i>Bunyaviridae</i>
<i>Bakau virus</i>	(BAKV)	<i>Bunyaviridae</i>
<i>Batama virus</i>	(BMAV)	<i>Bunyaviridae</i>
<i>Bayou virus</i>	(BAYV)	<i>Bunyaviridae</i>
<i>Benevides</i>	(BENV)	<i>Bunyaviridae</i>
<i>Bertioga virus</i>	(BERV)	<i>Bunyaviridae</i>
<i>Bimiti virus</i>	(BIMV)	<i>Bunyaviridae</i>
<i>Black Creek Canal virus</i>	(BCCV)	<i>Bunyaviridae</i>
<i>Botambi virus</i>	(BOTV)	<i>Bunyaviridae</i>
<i>Bujaru virus</i>	(BUJV)	<i>Bunyaviridae</i>
<i>Bunyamwera virus</i>	(BUNV)	<i>Bunyaviridae</i>
<i>Bushbush virus</i>	(BSBV)	<i>Bunyaviridae</i>
<i>Bwamba virus</i>	(BWAV)	<i>Bunyaviridae</i>
<i>California encephalitis virus</i>	(CEV)	<i>Bunyaviridae</i>
<i>Cano Delgadito virus</i>	(CADV)	<i>Bunyaviridae</i>
<i>Capim virus</i>	(CAPV)	<i>Bunyaviridae</i>
<i>Caraparu virus</i>	(CARV)	<i>Bunyaviridae</i>
<i>Catu virus</i>	(CATUV)	<i>Bunyaviridae</i>
<i>Chandiru virus</i>	(CDUV)	<i>Bunyaviridae</i>
<i>Chilibre virus</i>	(CHIV)	<i>Bunyaviridae</i>
<i>Crimean-Congo hemorrhagic fever virus</i>	(CCHV)	<i>Bunyaviridae</i>
<i>Dera Ghazi Khan virus</i>	(DGKV)	<i>Bunyaviridae</i>
<i>Dobrava-Belgrade virus</i>	(DOBV)	<i>Bunyaviridae</i>
<i>Dugbe virus</i>	(DUGV)	<i>Bunyaviridae</i>
<i>El Moro Canyon virus</i>	(ELMCV)	<i>Bunyaviridae</i>
<i>Esterio Real virus</i>	(ERV)	<i>Bunyaviridae</i>
<i>Frijoles virus</i>	(FRIV)	<i>Bunyaviridae</i>
<i>Gamboia virus</i>	(GAMV)	<i>Bunyaviridae</i>
<i>Guajara virus</i>	(GJAV)	<i>Bunyaviridae</i>
<i>Guama virus</i>	(GMAV)	<i>Bunyaviridae</i>
<i>Guaroa virus</i>	(GROV)	<i>Bunyaviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Hantaan virus</i>	(HTNV)	<i>Bunyaviridae</i>
<i>Hughes virus</i>	(HUGV)	<i>Bunyaviridae</i>
<i>Isla Vista virus</i>	(ISLAV)	<i>Bunyaviridae</i>
<i>Kairi virus</i>	(KRIV)	<i>Bunyaviridae</i>
<i>Khabarovsk</i>	(KHAV)	<i>Bunyaviridae</i>
<i>Koongol virus</i>	(KOOV)	<i>Bunyaviridae</i>
<i>Laguna Negra virus</i>	(LANV)	<i>Bunyaviridae</i>
<i>M'Poko virus</i>	(MPOV)	<i>Bunyaviridae</i>
<i>Madrid virus</i>	(MADV)	<i>Bunyaviridae</i>
<i>Main Drain virus</i>	(MDV)	<i>Bunyaviridae</i>
<i>Manzanilla virus</i>	(MANV)	<i>Bunyaviridae</i>
<i>Marituba virus</i>	(MTBV)	<i>Bunyaviridae</i>
<i>Mermet virus</i>	(MERV)	<i>Bunyaviridae</i>
<i>Minatitlan virus</i>	(MNTV)	<i>Bunyaviridae</i>
<i>Muleshoe virus</i>	(MULV)	<i>Bunyaviridae</i>
<i>New York virus</i>	(NYV)	<i>Bunyaviridae</i>
<i>Nyando virus</i>	(NDV)	<i>Bunyaviridae</i>
<i>Olifantsvlei virus</i>	(OLIV)	<i>Bunyaviridae</i>
<i>Oricabo virus</i>	(ORIV)	<i>Bunyaviridae</i>
<i>Oropouche virus</i>	(OROV)	<i>Bunyaviridae</i>
<i>Pueblo Viejo virus</i>	(PVV)	<i>Bunyaviridae</i>
<i>Prospect Hill virus</i>	(PHV)	<i>Bunyaviridae</i>
<i>Punta Toro virus</i>	(PTV)	<i>Bunyaviridae</i>
<i>Puumala virus</i>	(PUUV)	<i>Bunyaviridae</i>
<i>Qalyub virus</i>	(QYBV)	<i>Bunyaviridae</i>
<i>Rift Valley fever virus</i>	(RVFV)	<i>Bunyaviridae</i>
<i>Rio Mamore virus</i>	(RIOMV)	<i>Bunyaviridae</i>
<i>Rio Segunda virus</i>	(RIOSV)	<i>Bunyaviridae</i>
<i>Sakhalin virus</i>	(SAKV)	<i>Bunyaviridae</i>
<i>Salehebad virus</i>	(SALV)	<i>Bunyaviridae</i>
<i>Sandfly fever Naples virus</i>	(SFNV)	<i>Bunyaviridae</i>
<i>Sathuperi virus</i>	(SATV)	<i>Bunyaviridae</i>
<i>Seoul virus</i>	(SEOV)	<i>Bunyaviridae</i>
<i>Shamonda virus</i>	(SHAV)	<i>Bunyaviridae</i>
<i>Shuni virus</i>	(SHUV)	<i>Bunyaviridae</i>
<i>Simbu virus</i>	(SIMV)	<i>Bunyaviridae</i>
<i>Sin Nombre virus</i>	(SNV)	<i>Bunyaviridae</i>
<i>Tacaiuma virus</i>	(TCMV)	<i>Bunyaviridae</i>
<i>Tete virus</i>	(TETEV)	<i>Bunyaviridae</i>
<i>Thailand virus</i>	(THAIV)	<i>Bunyaviridae</i>
<i>Thiafora virus</i>	(TFAV)	<i>Bunyaviridae</i>
<i>Thimiri virus</i>	(THIV)	<i>Bunyaviridae</i>
<i>Thottapalayam virus</i>	(TPMV)	<i>Bunyaviridae</i>
<i>Timboteua virus</i>	(TBTV)	<i>Bunyaviridae</i>
<i>Topograpov virus</i>	(TOPV)	<i>Bunyaviridae</i>
<i>Tula virus</i>	(TULV)	<i>Bunyaviridae</i>
<i>Turlock virus</i>	(TURV)	<i>Bunyaviridae</i>
<i>Uukuniemi virus</i>	(UUKV)	<i>Bunyaviridae</i>
<i>Wyeomyia virus</i>	(WYOV)	<i>Bunyaviridae</i>
<i>Zegla virus</i>	(ZEGV)	<i>Bunyaviridae</i>
<i>European brown hare syndrome virus</i>	(EBHSV)	<i>Caliciviridae</i>
<i>Feline calicivirus</i>	(FCV)	<i>Caliciviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Norwalk virus</i>	(NV)	<i>Caliciviridae</i>
<i>Rabbit hemorrhagic disease virus</i>	(RHDV)	<i>Caliciviridae</i>
<i>Sapporo virus</i>	(SV)	<i>Caliciviridae</i>
<i>Vesicular exanthema of swine virus</i>	(VESV)	<i>Caliciviridae</i>
<i>Beak and feather disease virus</i>	(BFDV)	<i>Circoviridae</i>
<i>Chicken anemia virus</i>	(CAV)	<i>Circoviridae</i>
<i>Porcine circovirus</i>	(PCV)	<i>Circoviridae</i>
<i>Canine coronavirus</i>	(CCoV)	<i>Coronaviridae</i>
<i>Feline coronavirus</i>	(FCoV)	<i>Coronaviridae</i>
<i>Human coronavirus 229E</i>	(HCoV-229E)	<i>Coronaviridae</i>
<i>Porcine epidemic diarrhea virus</i>	(PEDV)	<i>Coronaviridae</i>
<i>Transmissible gastroenteritis virus</i>	(TGEV)	<i>Coronaviridae</i>
<i>Bovine coronavirus</i>	(BCoV)	<i>Coronaviridae</i>
<i>Human coronavirus OC43</i>	(HCoV-OC43)	<i>Coronaviridae</i>
<i>Murine hepatitis virus</i>	(MHV)	<i>Coronaviridae</i>
<i>Porcine hemagglutinating encephalomyelitis virus</i>	(HEV)	<i>Coronaviridae</i>
<i>Rat coronavirus</i>	(RtCoV)	<i>Coronaviridae</i>
<i>Turkey coronavirus</i>	(TCoV)	<i>Coronaviridae</i>
<i>Infectious bronchitis virus</i>	(IBV)	<i>Coronaviridae</i>
<i>Bovine torovirus</i>	(BoTV)	<i>Coronaviridae</i>
<i>Equine torovirus</i>	(EqTV)	<i>Coronaviridae</i>
<i>Porcine torovirus</i>	(PoTV)	<i>Coronaviridae</i>
<i>Human torovirus</i>	(HuTV)	<i>Coronaviridae</i>
<i>Marburg virus</i>	(MARV)	<i>Filoviridae</i>
<i>Cote d'Ivoire Ebola virus</i>	(CIEBOV)	<i>Filoviridae</i>
<i>Reston Ebola virus</i>	(REBOV)	<i>Filoviridae</i>
<i>Sudan Ebola virus</i>	(SEBOV)	<i>Filoviridae</i>
<i>Zaire Ebola virus</i>	(ZEBOV)	<i>Filoviridae</i>
<i>Apoi virus</i>	(APOIV)	<i>Flaviviridae</i>
<i>Aroa virus</i>	(AROAV)	<i>Flaviviridae</i>
<i>Bagaza virus</i>	(BAGV)	<i>Flaviviridae</i>
<i>Banzi virus</i>	(BANV)	<i>Flaviviridae</i>
<i>Border disease virus</i>	(BDV)	<i>Flaviviridae</i>
<i>Bouboui virus</i>	(BOUV)	<i>Flaviviridae</i>
<i>Bovine viral diarrhea virus 1</i>	(BVDV-1)	<i>Flaviviridae</i>
<i>Bovine viral diarrhea virus 2</i>	(BVDV-2)	<i>Flaviviridae</i>
<i>Bukalasa bat virus</i>	(BBV)	<i>Flaviviridae</i>
<i>Cacipacore virus</i>	(CPCV)	<i>Flaviviridae</i>
<i>Carey Island virus</i>	(CIV)	<i>Flaviviridae</i>
<i>Classical swine fever virus</i>	(CSFV)	<i>Flaviviridae</i>
<i>Cowbone Ridge virus</i>	(CRV)	<i>Flaviviridae</i>
<i>Dakar bat virus</i>	(DBV)	<i>Flaviviridae</i>
<i>Dengue virus</i>	(DENV)	<i>Flaviviridae</i>
<i>Edge Hill virus</i>	(EHV)	<i>Flaviviridae</i>
<i>Entebbe bat virus</i>	(ENTV)	<i>Flaviviridae</i>
<i>Gadgets Gully virus</i>	(GGYV)	<i>Flaviviridae</i>
<i>GB virus A</i>	(GBV-A)	<i>Flaviviridae</i>
<i>GB virus B</i>	(GBV-B)	<i>Flaviviridae</i>
<i>GB virus C/Hepatitis G virus</i>	(GBV-C/HGV)	<i>Flaviviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Hepatitis C virus</i>	(HCV)	<i>Flaviviridae</i>
<i>Ilheus virus</i>	(ILHV)	<i>Flaviviridae</i>
<i>Israel turkey meningoencephalomyelitis virus</i>	(ITV)	<i>Flaviviridae</i>
<i>Japanese encephalitis virus</i>	(JEV)	<i>Flaviviridae</i>
<i>Jugra virus</i>	(JUGV)	<i>Flaviviridae</i>
<i>Jutiapa virus</i>	(JUTV)	<i>Flaviviridae</i>
<i>Kadam virus</i>	(KADV)	<i>Flaviviridae</i>
<i>Kedougou virus</i>	(KEDV)	<i>Flaviviridae</i>
<i>Kokobera virus</i>	(KOKV)	<i>Flaviviridae</i>
<i>Koutango virus</i>	(KOUV)	<i>Flaviviridae</i>
<i>Kyasanur Forest disease virus</i>	(KFDV)	<i>Flaviviridae</i>
<i>Langat virus</i>	(LGTV)	<i>Flaviviridae</i>
<i>Louping ill virus</i>	(LIV)	<i>Flaviviridae</i>
<i>Meaban virus</i>	(MEAV)	<i>Flaviviridae</i>
<i>Modoc virus</i>	(MODV)	<i>Flaviviridae</i>
<i>Montana myotis leukoencephalitis virus</i>	(MMLV)	<i>Flaviviridae</i>
<i>Murray Valley encephalitis virus</i>	(MVEV)	<i>Flaviviridae</i>
<i>Ntaya virus</i>	(NTAV)	<i>Flaviviridae</i>
<i>Omsk hemorrhagic fever virus</i>	(OHFV)	<i>Flaviviridae</i>
<i>Phnom Penh bat virus</i>	(PPBV)	<i>Flaviviridae</i>
<i>Powassan virus</i>	(POWV)	<i>Flaviviridae</i>
<i>Rio Bravo virus</i>	(RBV)	<i>Flaviviridae</i>
<i>Royal Farm virus</i>	(RFV)	<i>Flaviviridae</i>
<i>Saboya virus</i>	(SABV)	<i>Flaviviridae</i>
<i>Sal Vieja virus</i>	(SVV)	<i>Flaviviridae</i>
<i>San Perlita virus</i>	(SPV)	<i>Flaviviridae</i>
<i>Saumarez Reef virus</i>	(SREV)	<i>Flaviviridae</i>
<i>Sepik virus</i>	(SEPV)	<i>Flaviviridae</i>
<i>St. Louis encephalitis virus</i>	(SLEV)	<i>Flaviviridae</i>
<i>Tembusu virus</i>	(TMUV)	<i>Flaviviridae</i>
<i>Tick-borne encephalitis virus</i>	(TBEV)	<i>Flaviviridae</i>
<i>Tyuleniy virus</i>	(TYUV)	<i>Flaviviridae</i>
<i>Uganda S virus</i>	(UGSV)	<i>Flaviviridae</i>
<i>Usutu virus</i>	(USUV)	<i>Flaviviridae</i>
<i>Wesselsbron virus</i>	(WESSV)	<i>Flaviviridae</i>
<i>West Nile virus</i>	(WNV)	<i>Flaviviridae</i>
<i>Yaounde virus</i>	(YAOV)	<i>Flaviviridae</i>
<i>Yellow fever virus</i>	(YFV)	<i>Flaviviridae</i>
<i>Yokose virus</i>	(YOKV)	<i>Flaviviridae</i>
<i>Zika virus</i>	(ZIKV)	<i>Flaviviridae</i>
<i>Duck hepatitis B virus</i>	(DHBV)	<i>Hepadnaviridae</i>
<i>Ground squirrel hepatitis virus</i>	(GSHV)	<i>Hepadnaviridae</i>
<i>Hepatitis B virus</i>	(HBV)	<i>Hepadnaviridae</i>
<i>Heron hepatitis B virus</i>	(HHBV)	<i>Hepadnaviridae</i>
<i>Woodchuck hepatitis virus</i>	(WHV)	<i>Hepadnaviridae</i>
<i>Alcelaphine herpesvirus 1</i>	(AIHV-1)	<i>Herpesviridae</i>
<i>Alcelaphine herpesvirus 2</i>	(AIHV-2)	<i>Herpesviridae</i>
<i>Ateline herpesvirus 1</i>	(AtHV-1)	<i>Herpesviridae</i>
<i>Ateline herpesvirus 2</i>	(AtHV-2)	<i>Herpesviridae</i>
<i>Bovine herpesvirus 1</i>	(BoHV-1)	<i>Herpesviridae</i>
<i>Bovine herpesvirus 2</i>	(BoHV-2)	<i>Herpesviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Bovine herpesvirus 4</i>	(BoHV-4)	<i>Herpesviridae</i>
<i>Bovine herpesvirus 5</i>	(BoHV-5)	<i>Herpesviridae</i>
<i>Bubaline herpesvirus 1</i>	(BuHV-1)	<i>Herpesviridae</i>
<i>Canid herpesvirus 1</i>	(CaHV-1)	<i>Herpesviridae</i>
<i>Caprine herpesvirus 1</i>	(CpHV-1)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 1</i>	(CeHV-1)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 2</i>	(CeHV-2)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 5</i>	(CeHV-5)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 8</i>	(CeHV-8)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 9</i>	(CeHV-9)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 12</i>	(CeHV-12)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 14</i>	(CeHV-14)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 15</i>	(CeHV-15)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 16</i>	(CeHV-16)	<i>Herpesviridae</i>
<i>Cercopithecine herpesvirus 17</i>	(CeHV-17)	<i>Herpesviridae</i>
<i>Cervid herpesvirus 1</i>	(CvHV-1)	<i>Herpesviridae</i>
<i>Cervid herpesvirus 2</i>	(CvHV-2)	<i>Herpesviridae</i>
<i>Equid herpesvirus 1</i>	(EHV-1)	<i>Herpesviridae</i>
<i>Equid herpesvirus 2</i>	(EHV-2)	<i>Herpesviridae</i>
<i>Equid herpesvirus 4</i>	(EHV-4)	<i>Herpesviridae</i>
<i>Equid herpesvirus 5</i>	(EHV-5)	<i>Herpesviridae</i>
<i>Equid herpesvirus 7</i>	(EHV-7)	<i>Herpesviridae</i>
<i>Equid herpesvirus 8</i>	(EHV-8)	<i>Herpesviridae</i>
<i>Equid herpesvirus 9</i>	(EHV-9)	<i>Herpesviridae</i>
<i>Felid herpesvirus 1</i>	(FeHV-1)	<i>Herpesviridae</i>
<i>Gallid herpesvirus 1</i>	(GaHV-1)	<i>Herpesviridae</i>
<i>Gallid herpesvirus 2</i>	(GaHV-2)	<i>Herpesviridae</i>
<i>Gallid herpesvirus 3</i>	(GaHV-3)	<i>Herpesviridae</i>
<i>Hippotragine herpesvirus 1</i>	(HiHV-1)	<i>Herpesviridae</i>
<i>Human herpesvirus 1</i>	(HHV-1)	<i>Herpesviridae</i>
<i>Human herpesvirus 2</i>	(HHV-2)	<i>Herpesviridae</i>
<i>Human herpesvirus 3</i>	(HHV-3)	<i>Herpesviridae</i>
<i>Human herpesvirus 4</i>	(HHV-4)	<i>Herpesviridae</i>
<i>Human herpesvirus 5</i>	(HHV-5)	<i>Herpesviridae</i>
<i>Human herpesvirus 6</i>	(HHV-6)	<i>Herpesviridae</i>
<i>Human herpesvirus 7</i>	(HHV-7)	<i>Herpesviridae</i>
<i>Human herpesvirus 8</i>	(HHV-8)	<i>Herpesviridae</i>
<i>Ictalurid herpesvirus 1</i>	(IcHV-1)	<i>Herpesviridae</i>
<i>Meleagrid herpesvirus 1</i>	(MeHV-1)	<i>Herpesviridae</i>
<i>Murid herpesvirus 1</i>	(MuHV-1)	<i>Herpesviridae</i>
<i>Murid herpesvirus 2</i>	(MuHV-2)	<i>Herpesviridae</i>
<i>Ovine herpesvirus 1</i>	(OvHV-1)	<i>Herpesviridae</i>
<i>Ovine herpesvirus 2</i>	(OvHV-2)	<i>Herpesviridae</i>
<i>Phocid herpesvirus 1</i>	(PhoHV-1)	<i>Herpesviridae</i>
<i>Pongine herpesvirus 1</i>	(PoHV-1)	<i>Herpesviridae</i>
<i>Pongine herpesvirus 2</i>	(PoHV-2)	<i>Herpesviridae</i>
<i>Pongine herpesvirus 3</i>	(PoHV-3)	<i>Herpesviridae</i>
<i>Saimiriine herpesvirus 1</i>	(SaHV-1)	<i>Herpesviridae</i>
<i>Saimiriine herpesvirus 2</i>	(SaHV-2)	<i>Herpesviridae</i>
<i>Suid herpesvirus 1</i>	(SuHV-1)	<i>Herpesviridae</i>
<i>Frog virus 3</i>	(FV-3)	<i>Iridoviridae</i>
<i>Lymphocystis disease virus 1</i>	(LCDV-1)	<i>Iridoviridae</i>

Continued



Table 1 (continued)

Virus name	Abbreviation	Family
<i>Barfin flounder nervous necrosis virus</i>	(BFNNV)	<i>Nodaviridae</i>
<i>Boolarra virus</i>	(BoV)	<i>Nodaviridae</i>
<i>Japanese flounder nervous necrosis virus</i>	(JFNNV)	<i>Nodaviridae</i>
<i>Manawatu virus</i>	(MwV)	<i>Nodaviridae</i>
<i>New Zealand virus</i>	(NZV)	<i>Nodaviridae</i>
<i>Nodamura virus</i>	(NoV)	<i>Nodaviridae</i>
<i>Redspotted grouper nervous necrosis virus</i>	(RGNNV)	<i>Nodaviridae</i>
<i>Striped jack nervous necrosis virus</i>	(SJNNV)	<i>Nodaviridae</i>
<i>Tiger puffer nervous necrosis virus</i>	(TPNNV)	<i>Nodaviridae</i>
<i>Dhori virus</i>	(DHOV)	<i>Orthomyxoviridae</i>
<i>Influenza A virus</i>	(FLUAV)	<i>Orthomyxoviridae</i>
<i>Influenza B virus</i>	(FLUBV)	<i>Orthomyxoviridae</i>
<i>Influenza C virus</i>	(FLUCV)	<i>Orthomyxoviridae</i>
<i>Thogoto virus</i>	(THOV)	<i>Orthomyxoviridae</i>
<i>Bovine papillomavirus</i>	(BPV)	<i>Papillomaviridae</i>
<i>Canine oral papillomavirus</i>	(COPV)	<i>Papillomaviridae</i>
<i>Cottontail rabbit papillomavirus</i>	(CRPV)	<i>Papillomaviridae</i>
<i>Deer papillomavirus</i>	(DPV)	<i>Papillomaviridae</i>
<i>European elk papillomavirus</i>	(EEPV)	<i>Papillomaviridae</i>
<i>Human papillomavirus</i>	(HPV)	<i>Papillomaviridae</i>
<i>Ovine papillomavirus</i>	(OPV)	<i>Papillomaviridae</i>
<i>Avian paramyxovirus 2 (Yucaipa)</i>	(APMV-2)	<i>Paramyxoviridae</i>
<i>Avian paramyxovirus 3</i>	(APMV-3)	<i>Paramyxoviridae</i>
<i>Avian paramyxovirus 4</i>	(APMV-4)	<i>Paramyxoviridae</i>
<i>Avian paramyxovirus 5 (Kunitachi)</i>	(APMV-5)	<i>Paramyxoviridae</i>
<i>Avian paramyxovirus 6</i>	(APMV-6)	<i>Paramyxoviridae</i>
<i>Avian paramyxovirus 7</i>	(APMV-7)	<i>Paramyxoviridae</i>
<i>Avian paramyxovirus 8</i>	(APMV-8)	<i>Paramyxoviridae</i>
<i>Avian paramyxovirus 9</i>	(APMV-9)	<i>Paramyxoviridae</i>
<i>Bovine parainfluenza virus 3</i>	(BPIV-3)	<i>Paramyxoviridae</i>
<i>Bovine respiratory syncytial virus</i>	(BRSV)	<i>Paramyxoviridae</i>
<i>Canine distemper virus</i>	(CDV)	<i>Paramyxoviridae</i>
<i>Cetacean morbillivirus virus</i>	(CeMV)	<i>Paramyxoviridae</i>
<i>Human parainfluenza virus 1</i>	(HPIV-1)	<i>Paramyxoviridae</i>
<i>Human parainfluenza virus 2</i>	(HPIV-2)	<i>Paramyxoviridae</i>
<i>Human parainfluenza virus 3</i>	(HPIV-3)	<i>Paramyxoviridae</i>
<i>Human parainfluenza virus 4</i>	(HPIV-4)	<i>Paramyxoviridae</i>
<i>Human respiratory syncytial virus</i>	(HRSV)	<i>Paramyxoviridae</i>
<i>Mapuera virus</i>	(MPRV)	<i>Paramyxoviridae</i>
<i>Measles virus</i>	(MeV)	<i>Paramyxoviridae</i>
<i>Mumps virus</i>	(MuV)	<i>Paramyxoviridae</i>
<i>Murine pneumonia virus</i>	(PVM)	<i>Paramyxoviridae</i>
<i>Newcastle disease virus</i>	(NDV)	<i>Paramyxoviridae</i>
<i>Peste-des-petits-ruminants virus</i>	(PPRV)	<i>Paramyxoviridae</i>
<i>Phocine distemper virus</i>	(PDV)	<i>Paramyxoviridae</i>
<i>Porcine rubulavirus</i>	(PoRV)	<i>Paramyxoviridae</i>
<i>Rinderpest virus</i>	(RPV)	<i>Paramyxoviridae</i>
<i>Sendai virus</i>	(SeV)	<i>Paramyxoviridae</i>
<i>Simian virus 10</i>	(SV-10)	<i>Paramyxoviridae</i>
<i>Simian virus 41</i>	(SV-41)	<i>Paramyxoviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Simian virus 5</i>	(SV-5)	<i>Paramyxoviridae</i>
<i>Turkey rhinotracheitis virus</i>	(TRTV)	<i>Paramyxoviridae</i>
<i>Adeno-associated virus 1</i>	(AAV-1)	<i>Parvoviridae</i>
<i>Adeno-associated virus 2</i>	(AAV-2)	<i>Parvoviridae</i>
<i>Adeno-associated virus 3</i>	(AAV-3)	<i>Parvoviridae</i>
<i>Adeno-associated virus 4</i>	(AAV-4)	<i>Parvoviridae</i>
<i>Adeno-associated virus 5</i>	(AAV-5)	<i>Parvoviridae</i>
<i>Adeno-associated virus 6</i>	(AAV-6)	<i>Parvoviridae</i>
<i>Aleutian mink disease virus</i>	(AMDV)	<i>Parvoviridae</i>
<i>Avian adeno-associated virus</i>	(AAAV)	<i>Parvoviridae</i>
<i>B19 virus</i>	(B19V)	<i>Parvoviridae</i>
<i>Bovine adeno-associated virus</i>	(BAAV)	<i>Parvoviridae</i>
<i>Bovine parvovirus</i>	(BPV)	<i>Parvoviridae</i>
<i>Canine adeno-associated virus</i>	(CAAV)	<i>Parvoviridae</i>
<i>Canine minute virus</i>	(CMV)	<i>Parvoviridae</i>
<i>Canine parvovirus</i>	(CPV)	<i>Parvoviridae</i>
<i>Chicken parvovirus</i>	(ChPV)	<i>Parvoviridae</i>
<i>Equine adeno-associated virus</i>	(EAAV)	<i>Parvoviridae</i>
<i>Feline panleukopenia virus</i>	(FPLV)	<i>Parvoviridae</i>
<i>Feline parvovirus</i>	(FPV)	<i>Parvoviridae</i>
<i>Goose parvovirus</i>	(GPV)	<i>Parvoviridae</i>
<i>H-1 virus</i>	(H-1PV)	<i>Parvoviridae</i>
<i>HB virus</i>	(HBPV)	<i>Parvoviridae</i>
<i>Kilham rat virus</i>	(KRV)	<i>Parvoviridae</i>
<i>Lapine parvovirus</i>	(LPV)	<i>Parvoviridae</i>
<i>LUIII virus</i>	(LUIIIIV)	<i>Parvoviridae</i>
<i>Mice minute virus</i>	(MMV)	<i>Parvoviridae</i>
<i>Mink enteritis virus</i>	(MEV)	<i>Parvoviridae</i>
<i>Mouse parvovirus 1</i>	(MPV)	<i>Parvoviridae</i>
<i>Muscovy duck parvovirus</i>	(MDPV)	<i>Parvoviridae</i>
<i>Ovine adeno-associated virus</i>	(OAAV)	<i>Parvoviridae</i>
<i>Porcine parvovirus</i>	(PPV)	<i>Parvoviridae</i>
<i>Raccoon parvovirus</i>	(RPV)	<i>Parvoviridae</i>
<i>RT parvovirus</i>	(RTPV)	<i>Parvoviridae</i>
<i>Tumor virus X</i>	(TVX)	<i>Parvoviridae</i>
<i>Aichi virus</i>	(AiV)	<i>Picornaviridae</i>
<i>Bovine enterovirus</i>	(BEV)	<i>Picornaviridae</i>
<i>Encephalomyocarditis virus</i>	(EMCV)	<i>Picornaviridae</i>
<i>Equine rhinitis A virus</i>	(ERAV)	<i>Picornaviridae</i>
<i>Equine rhinitis B virus</i>	(ERBV)	<i>Picornaviridae</i>
<i>Foot-and-mouth disease virus</i>	(FMDV)	<i>Picornaviridae</i>
<i>Hepatitis A virus</i>	(HAV)	<i>Picornaviridae</i>
<i>Human enterovirus A</i>	(HEV-A)	<i>Picornaviridae</i>
<i>Human enterovirus B</i>	(HEV-B)	<i>Picornaviridae</i>
<i>Human enterovirus C</i>	(HEV-C)	<i>Picornaviridae</i>
<i>Human enterovirus D</i>	(HEV-D)	<i>Picornaviridae</i>
<i>Human hepatitis A virus</i>	(HHAV)	<i>Picornaviridae</i>
<i>Human parechovirus</i>	(HPeV)	<i>Picornaviridae</i>
<i>Human rhinovirus A</i>	(HRV-A)	<i>Picornaviridae</i>
<i>Human rhinovirus B</i>	(HRV-B)	<i>Picornaviridae</i>
<i>Poliovirus</i>	(PV)	<i>Picornaviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Porcine enterovirus A</i>	(PEV-A)	<i>Picornaviridae</i>
<i>Porcine enterovirus B</i>	(PEV-B)	<i>Picornaviridae</i>
<i>Porcine teschovirus</i>	(PTV)	<i>Picornaviridae</i>
<i>Theilovirus</i>	(ThV)	<i>Picornaviridae</i>
<i>African green monkey polyomavirus</i>	(AGMPyV)	<i>Polyomaviridae</i>
<i>Baboon polyomavirus 2</i>	(PPyV)	<i>Polyomaviridae</i>
<i>BK polyomavirus</i>	(BKPyV)	<i>Polyomaviridae</i>
<i>Bovine polyomavirus</i>	(BPyV)	<i>Polyomaviridae</i>
<i>Budgerigar fledgling polyomavirus</i>	(BFPyV)	<i>Polyomaviridae</i>
<i>Hamster polyomavirus</i>	(HaPyV)	<i>Polyomaviridae</i>
<i>JC polyomavirus</i>	(JCPyV)	<i>Polyomaviridae</i>
<i>Murine pneumotropic virus</i>	(MPtV)	<i>Polyomaviridae</i>
<i>Murine polyomavirus</i>	(MPyV)	<i>Polyomaviridae</i>
<i>Rabbit kidney vacuolating virus</i>	(RKV)	<i>Polyomaviridae</i>
<i>Simian virus 12</i>	(SV-12)	<i>Polyomaviridae</i>
<i>Simian virus 40</i>	(SV-40)	<i>Polyomaviridae</i>
<i>Bovine papular stomatitis virus</i>	(BPSV)	<i>Poxviridae</i>
<i>Camelpox virus</i>	(CMLV)	<i>Poxviridae</i>
<i>Canarypox virus</i>	(CNPV)	<i>Poxviridae</i>
<i>Cowpox virus</i>	(CPXV)	<i>Poxviridae</i>
<i>Ectromelia virus</i>	(ECTV)	<i>Poxviridae</i>
<i>Fowlpox virus</i>	(FWPV)	<i>Poxviridae</i>
<i>Goatpox virus</i>	(GTPV)	<i>Poxviridae</i>
<i>Hare fibroma virus</i>	(FIBV)	<i>Poxviridae</i>
<i>Juncopox virus</i>	(JNPV)	<i>Poxviridae</i>
<i>Lumpy skin disease virus</i>	(LSDV)	<i>Poxviridae</i>
<i>Molluscum contagiosum virus</i>	(MOCV)	<i>Poxviridae</i>
<i>Monkeypox virus</i>	(MPXV)	<i>Poxviridae</i>
<i>Mynahpox virus</i>	(MYPV)	<i>Poxviridae</i>
<i>Myxoma virus</i>	(MYXV)	<i>Poxviridae</i>
<i>Orf virus</i>	(ORFV)	<i>Poxviridae</i>
<i>Parapoxvirus of red deer in New Zealand</i>	(PVNZ)	<i>Poxviridae</i>
<i>Pigeonpox virus</i>	(PGPV)	<i>Poxviridae</i>
<i>Pseudocowpox virus</i>	(PCPV)	<i>Poxviridae</i>
<i>Psittacinepox virus</i>	(PSPV)	<i>Poxviridae</i>
<i>Quailpox virus</i>	(QUPV)	<i>Poxviridae</i>
<i>Rabbit fibroma virus</i>	(SFV)	<i>Poxviridae</i>
<i>Raccoonpox virus</i>	(RCNV)	<i>Poxviridae</i>
<i>Sheeppox virus</i>	(SPPV)	<i>Poxviridae</i>
<i>Sparrowpox virus</i>	(SRPV)	<i>Poxviridae</i>
<i>Squirrel fibroma virus</i>	(SQFV)	<i>Poxviridae</i>
<i>Squirrel parapoxvirus</i>	(SPPV)	<i>Poxviridae</i>
<i>Starlingpox virus</i>	(SLPV)	<i>Poxviridae</i>
<i>Swinepox virus</i>	(SWPV)	<i>Poxviridae</i>
<i>Tanapox virus</i>	(TANV)	<i>Poxviridae</i>
<i>Taterapox virus</i>	(GBLV)	<i>Poxviridae</i>
<i>Turkeypox virus</i>	(TKPV)	<i>Poxviridae</i>
<i>Vaccinia virus</i>	(VACV)	<i>Poxviridae</i>
<i>Variola virus</i>	(VARV)	<i>Poxviridae</i>
<i>Volepox virus</i>	(VPXV)	<i>Poxviridae</i>
<i>Yaba monkey tumor virus</i>	(YMTV)	<i>Poxviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>African horse sickness virus</i>	(AHSV)	<i>Reoviridae</i>
<i>Aquareovirus A</i>	(ARV-A)	<i>Reoviridae</i>
<i>Aquareovirus B</i>	(ARV-B)	<i>Reoviridae</i>
<i>Aquareovirus C</i>	(ARV-C)	<i>Reoviridae</i>
<i>Aquareovirus D</i>	(ARV-D)	<i>Reoviridae</i>
<i>Aquareovirus E</i>	(ARV-E)	<i>Reoviridae</i>
<i>Aquareovirus F</i>	(ARV-F)	<i>Reoviridae</i>
<i>Avian orthoreovirus</i>	(ARV)	<i>Reoviridae</i>
<i>Baboon orthoreovirus</i>	(BRV)	<i>Reoviridae</i>
<i>Banina virus</i>	(BAV)	<i>Reoviridae</i>
<i>Bluetongue virus</i>	(BTV)	<i>Reoviridae</i>
<i>Changuinola virus</i>	(CGLV)	<i>Reoviridae</i>
<i>Chenuda virus</i>	(CNUV)	<i>Reoviridae</i>
<i>Chobar Gorge virus</i>	(CGV)	<i>Reoviridae</i>
<i>Colorado tick fever virus</i>	(CTFV)	<i>Reoviridae</i>
<i>Corriparta virus</i>	(CORV)	<i>Reoviridae</i>
<i>Epizootic hemorrhagic disease virus</i>	(EHDV)	<i>Reoviridae</i>
<i>Equine encephalosis virus</i>	(EEV)	<i>Reoviridae</i>
<i>Eubenangee virus</i>	(EUBV)	<i>Reoviridae</i>
<i>Eyach virus</i>	(EYAV)	<i>Reoviridae</i>
<i>Great Island virus</i>	(GIV)	<i>Reoviridae</i>
<i>Ieri virus</i>	(IERIV)	<i>Reoviridae</i>
<i>Kadipiro virus</i>	(KDV)	<i>Reoviridae</i>
<i>Lebombo virus</i>	(LEBV)	<i>Reoviridae</i>
<i>Mammalian orthoreovirus</i>	(MRV)	<i>Reoviridae</i>
<i>Nelson Bay orthoreovirus</i>	(NBV)	<i>Reoviridae</i>
<i>Orungo virus</i>	(ORUV)	<i>Reoviridae</i>
<i>Palyam virus</i>	(PALV)	<i>Reoviridae</i>
<i>Rotavirus A</i>	(RV-A)	<i>Reoviridae</i>
<i>Rotavirus B</i>	(RV-B)	<i>Reoviridae</i>
<i>Rotavirus C</i>	(RV-C)	<i>Reoviridae</i>
<i>Rotavirus D</i>	(RV-D)	<i>Reoviridae</i>
<i>Rotavirus E</i>	(RV-E)	<i>Reoviridae</i>
<i>Umatilla virus</i>	(UMAV)	<i>Reoviridae</i>
<i>Wad Medani virus</i>	(WMV)	<i>Reoviridae</i>
<i>Wallal virus</i>	(WALV)	<i>Reoviridae</i>
<i>Warrego virus</i>	(WARV)	<i>Reoviridae</i>
<i>Wongorr virus</i>	(WGRV)	<i>Reoviridae</i>
<i>Avian carcinoma Mill Hill virus 2</i>	(ACMHV-2)	<i>Retroviridae</i>
<i>Avian leukosis virus</i>	(ALV)	<i>Retroviridae</i>
<i>Avian myeloblastosis virus</i>	(AMV)	<i>Retroviridae</i>
<i>Avian myelocytomatosis virus 29</i>	(AMCV-29)	<i>Retroviridae</i>
<i>Avian sarcoma virus CT10</i>	(ASV-CT10)	<i>Retroviridae</i>
<i>Bovine foamy virus</i>	(BFV)	<i>Retroviridae</i>
<i>Bovine immunodeficiency virus</i>	(BIV)	<i>Retroviridae</i>
<i>Bovine leukemia virus</i>	(BLV)	<i>Retroviridae</i>
<i>Caprine arthritis encephalitis virus</i>	(CAEV)	<i>Retroviridae</i>
<i>Chick syncytial virus</i>	(CSV)	<i>Retroviridae</i>
<i>Chimpanzee foamy virus</i>	(CFV)	<i>Retroviridae</i>
<i>Equine infectious anemia virus</i>	(EIAV)	<i>Retroviridae</i>
<i>Feline foamy virus</i>	(FFV)	<i>Retroviridae</i>
<i>Feline immunodeficiency virus</i>	(FIV)	<i>Retroviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Feline immunodeficiency virus (Oma)</i>	(FIV-O)	<i>Retroviridae</i>
<i>Feline leukemia virus</i>	(FeLV)	<i>Retroviridae</i>
<i>Finkel-Biskis-Jinkins murine sarcoma virus</i>	(FBJMSV)	<i>Retroviridae</i>
<i>Fujinami sarcoma virus</i>	(FuSV)	<i>Retroviridae</i>
<i>Gardner-Arnstein feline sarcoma virus</i>	(GAFeSV)	<i>Retroviridae</i>
<i>Gibbon ape leukemia virus</i>	(GALV)	<i>Retroviridae</i>
<i>Guinea pig type-C oncovirus</i>	(GPCOV)	<i>Retroviridae</i>
<i>Hardy-Zuckerman feline sarcoma virus</i>	(HZFeSV)	<i>Retroviridae</i>
<i>Harvey murine sarcoma virus</i>	(HaMSV)	<i>Retroviridae</i>
<i>Human immunodeficiency virus 1</i>	(HIV-1)	<i>Retroviridae</i>
<i>Human immunodeficiency virus 2</i>	(HIV-2)	<i>Retroviridae</i>
<i>Kirsten murine sarcoma virus</i>	(KiMSV)	<i>Retroviridae</i>
<i>Langur virus</i>	(LNGV)	<i>Retroviridae</i>
<i>Mason-Pfizer monkey virus</i>	(MPMV)	<i>Retroviridae</i>
<i>Moloney murine sarcoma virus</i>	(MoMSV)	<i>Retroviridae</i>
<i>Mouse mammary tumor virus</i>	(MMTV)	<i>Retroviridae</i>
<i>Ovine pulmonary adenocarcinoma virus</i>	(JSRV)	<i>Retroviridae</i>
<i>Murine leukemia virus</i>	(MLV)	<i>Retroviridae</i>
<i>Porcine type-C oncovirus</i>	(PCOV)	<i>Retroviridae</i>
<i>Primate T-lymphotropic virus 1</i>	(PTLV-1)	<i>Retroviridae</i>
<i>Primate T-lymphotropic virus 2</i>	(PTLV-2)	<i>Retroviridae</i>
<i>Primate T-lymphotropic virus 3</i>	(PTLV-3)	<i>Retroviridae</i>
<i>Puma lentivirus (PLV-14)</i>	(PLV)	<i>Retroviridae</i>
<i>Reticuloendotheliosis virus (strain TA)</i>	(REV)	<i>Retroviridae</i>
<i>Rous sarcoma virus</i>	(RSV)	<i>Retroviridae</i>
<i>Simian foamy virus 1</i>	(SFV-1)	<i>Retroviridae</i>
<i>Simian foamy virus 3</i>	(SFV-3)	<i>Retroviridae</i>
<i>Simian immunodeficiency virus</i>	(SIV)	<i>Retroviridae</i>
<i>Snyder-Theilen feline sarcoma virus</i>	(STFeSV)	<i>Retroviridae</i>
<i>Squirrel monkey retrovirus</i>	(SMRV)	<i>Retroviridae</i>
<i>Trager duck spleen necrosis virus</i>	(TDSNV)	<i>Retroviridae</i>
<i>UR2 sarcoma virus</i>	(UR2SV)	<i>Retroviridae</i>
<i>Viper retrovirus</i>	(VRV)	<i>Retroviridae</i>
<i>Visna/maedi virus (strain 1514)</i>	(VISNA)	<i>Retroviridae</i>
<i>Walleye dermal sarcoma virus</i>	(WDSV)	<i>Retroviridae</i>
<i>Walleye epidermal hyperplasia virus 1</i>	(WEHV-1)	<i>Retroviridae</i>
<i>Walleye epidermal hyperplasia virus 2</i>	(WEHV-2)	<i>Retroviridae</i>
<i>Woolly monkey sarcoma virus</i>	(WMSV)	<i>Retroviridae</i>
<i>Y73 sarcoma virus</i>	(Y73SV)	<i>Retroviridae</i>
<i>Adelaide River virus</i>	(ARV)	<i>Rhabdoviridae</i>
<i>Australian bat lyssavirus</i>	(ABLV)	<i>Rhabdoviridae</i>
<i>Berrimah virus</i>	(BRMV)	<i>Rhabdoviridae</i>
<i>Bovine ephemeral fever virus</i>	(BEFV)	<i>Rhabdoviridae</i>
<i>Carajas virus</i>	(CJSV)	<i>Rhabdoviridae</i>
<i>Chandipura virus</i>	(CHPV)	<i>Rhabdoviridae</i>
<i>Cocal virus</i>	(COCV)	<i>Rhabdoviridae</i>
<i>Duvenhage virus</i>	(DUVV)	<i>Rhabdoviridae</i>
<i>European bat lyssavirus 1</i>	(EBLV-1)	<i>Rhabdoviridae</i>
<i>European bat lyssavirus 2</i>	(EBLV-2)	<i>Rhabdoviridae</i>
<i>Hirame rhabdovirus</i>	(HIRRV)	<i>Rhabdoviridae</i>
<i>Infectious hematopoietic necrosis virus</i>	(IHNV)	<i>Rhabdoviridae</i>
<i>Isfahan virus</i>	(ISFV)	<i>Rhabdoviridae</i>

Continued

Table 1 (continued)

Virus name	Abbreviation	Family
<i>Lagos bat virus</i>	(LBV)	<i>Rhabdoviridae</i>
<i>Maraba virus</i>	(MARAV)	<i>Rhabdoviridae</i>
<i>Mokola virus</i>	(MOKV)	<i>Rhabdoviridae</i>
<i>Piry virus</i>	(PIRYV)	<i>Rhabdoviridae</i>
<i>Rabies virus</i>	(RABV)	<i>Rhabdoviridae</i>
<i>Vesicular stomatitis Alagoas virus</i>	(VSAV)	<i>Rhabdoviridae</i>
<i>Vesicular stomatitis Indiana virus</i>	(VSIV)	<i>Rhabdoviridae</i>
<i>Vesicular stomatitis New Jersey virus</i>	(VSNJV)	<i>Rhabdoviridae</i>
<i>Viral hemorrhagic septicemia virus</i>	(VHSV)	<i>Rhabdoviridae</i>
<i>Ag80-663 virus</i>	(AG80V)	<i>Togaviridae</i>
<i>Aura virus</i>	(AURAV)	<i>Togaviridae</i>
<i>Barmah Forest virus</i>	(BFV)	<i>Togaviridae</i>
<i>Bebaru virus</i>	(BEBV)	<i>Togaviridae</i>
<i>Cabassou virus</i>	(CABV)	<i>Togaviridae</i>
<i>Chikungunya virus</i>	(CHIKV)	<i>Togaviridae</i>
<i>Eastern equine encephalitis virus</i>	(EEEV)	<i>Togaviridae</i>
<i>Everglades virus</i>	(EVEV)	<i>Togaviridae</i>
<i>Fort Morgan virus</i>	(FMV)	<i>Togaviridae</i>
<i>Getah virus</i>	(GETV)	<i>Togaviridae</i>
<i>Highlands J virus</i>	(HJV)	<i>Togaviridae</i>
<i>Mayaro virus</i>	(MAYV)	<i>Togaviridae</i>
<i>Middelburg virus</i>	(MIDV)	<i>Togaviridae</i>
<i>Mucambo virus</i>	(MUCV)	<i>Togaviridae</i>
<i>Ndumu virus</i>	(NDUV)	<i>Togaviridae</i>
<i>O'nyong-nyong virus</i>	(ONNV)	<i>Togaviridae</i>
<i>Pixuna virus</i>	(PIXV)	<i>Togaviridae</i>
<i>Ross River virus</i>	(RRV)	<i>Togaviridae</i>
<i>Rubella virus</i>	(RUBV)	<i>Togaviridae</i>
<i>Semliki Forest virus</i>	(SFV)	<i>Togaviridae</i>
<i>Sindbis virus</i>	(SINV)	<i>Togaviridae</i>
<i>Una virus</i>	(UNAV)	<i>Togaviridae</i>
<i>Venezuelan equine encephalitis virus</i>	(VEEV)	<i>Togaviridae</i>
<i>Western equine encephalitis virus</i>	(WEEV)	<i>Togaviridae</i>
<i>Whataroa virus</i>	(WHAV)	<i>Togaviridae</i>
<i>Hepatitis D virus</i>	(HDV)	Unassigned genus – “HDV-like viruses”
<i>Hepatitis E virus</i>	(HEV)	Unassigned genus – “HEV-like viruses”

Table 2 identifies in alphabetical order the duplicated abbreviations in the current list. They are 14 duplications among the five hundred and ninety-two vertebrate virus species name abbreviations listed in Table 1. These are listed in Table 2.

A further 8 cases of overlap are present in the list in Table 1, which are not strictly duplications as they are differentiated addition of a number or a letter: i.e. *Avian orthoreovirus* (ARV), *Adelaide River virus* (ARV) and *Aquareovirus A* (ARV-A); *Edge Hill virus* (EHV) and *Equid herpesvirus 1* (EHV-1); *Porcine hemagglutinating encephalomyelitis virus* (HEV), *Hepatitis E virus* (HEV) and *Human enterovirus A* (HEV-A); *Madrid virus*

**Table 2.** List of duplicated abbreviations of names of vertebrate virus species

Species name	Abbreviation	Family
<i>Borna disease virus</i>	(BDV)	<i>Bornaviridae</i>
<i>Border disease virus</i>	(BDV)	<i>Flavivirida</i>
<i>Bovine foamy virus</i>	(BFV)	<i>Retroviridae</i>
<i>Barmah Forest virus</i>	(BFV)	<i>Togaviridae</i>
<i>Botambi virus</i>	(BOTV)	<i>Bunyaviridae</i>
<i>Bovine torovirus</i>	(BoTV)	<i>Coronaviridae</i>
<i>Bovine papillomavirus</i>	(BPV)	<i>Papillomaviridae</i>
<i>Bovine parvovirus</i>	(BPV)	<i>Parvoviridae</i>
<i>Chicken parvovirus</i>	(ChPV)	<i>Parvoviridae</i>
<i>Chandipura virus</i>	(CHPV)	<i>Rhabdoviridae</i>
<i>Porcine hemagglutinating encephalomyelitis virus</i>	(HEV)	<i>Coronaviridae</i>
<i>Hepatitis E virus</i>	(HEV)	Unassigned genus
<i>Measles virus</i>	(MeV)	<i>Paramyxoviridae</i>
<i>Mink enteritis virus</i>	(MEV)	<i>Parvoviridae</i>
<i>Nyando virus</i>	(NDV)	<i>Bunyaviridae</i>
<i>Newcastle disease virus</i>	(NDV)	<i>Paramyxoviridae</i>
<i>Potosi virus</i>	(POTV)	<i>Bunyaviridae</i>
<i>Porcine torovirus</i>	(PoTV)	<i>Coronaviridae</i>
<i>Punta Toro virus</i>	(PTV)	<i>Bunyaviridae</i>
<i>Porcine teschovirus</i>	(PTV)	<i>Picornaviridae</i>
<i>Rinderpest virus</i>	(RPV)	<i>Paramyxoviridae</i>
<i>Raccoon parvovirus</i>	(RPV)	<i>Parvoviridae</i>
<i>Sabiá virus</i>	(SABV)	<i>Arenaviridae</i>
<i>Saboya virus</i>	(SABV)	<i>Flaviviridae</i>
<i>Rabbit fibroma virus</i>	(SFV)	<i>Poxviridae</i>
<i>Semliki Forest virus</i>	(SFV)	<i>Togaviridae</i>
<i>Sheeppox virus</i>	(SPPV)	<i>Poxviridae</i>
<i>Squirrel parapoxvirus</i>	(SPPV)	<i>Poxviridae</i>

(MADV) and *Murine adenovirus A* (MAdV-A); *Rabbit fibroma virus* (SFV), *Semliki Forest virus* (SFV) and *Simian foamy virus 1* (SFV-1); *Sapporo virus* (SV), *Simian virus 10* (SV-10), *Simian virus 12* (SV-12) and *Simian virus 40* (SV-40). However the core of the abbreviation is the same and confusion is possible.

We believe that publication of these lists will increase awareness of the need for the adoption of a uniform system of abbreviations of virus species names.

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