

## List of viruses and unconventional agents presenting at the wild state a biological risk for immunocompetent humans and/or animals and corresponding maximum biological risk

Notes:

‡: virus for which the biological risk is depending on the animal host

(\*) : virus of risk 3 that may present a limited risk of infection for humans and animals because they are not normally infectious by the airborne route.

| H | A | Virus  |
|---|---|--|
|   |   | <b>Adenoviridae</b>  |
|   |   | <i>Atadenovirus</i> genus                                      |
|   | 2 | Atadenoviruses   |
|   |   | <i>Aviadenovirus</i> genus (isolated from birds)               |
|   | 2 | Aviadenoviruses  |
|   |   | <i>Mastadenovirus</i> genus (including all human adenoviruses) |
|   | 2 | Animal adenoviruses  |
| 2 |   | Human adenoviruses   |
|   |   | <i>Siadenovirus</i> genus (isolated from reptiles and birds)   |
|   | 2 | Siadenoviruses   |
|   | 2 | Unclassified adenoviridae (isolated from a sturgeon and bat)   |
|   |   |  |
|   |   | <b>Alloherpesviridae</b>                                       |
|   |   | <i>Ictaluri virus</i> genus                                    |
|   | 2 | Ictalurid herpesvirus 1 (Channel catfish virus)                |
|   |   | Unclassified Alloherpesviridae                                 |
|   | 2 | Cyprinid herpesvirus 1 (Carp pox herpesvirus)                  |
|   | 2 | Ranid herpesvirus 1 (Lucké rog herpesvirus)                    |
|   | 2 | Ranid herpesvirus 2 (Frog herpesvirus 4)                       |
|   | 3 | Salmonid herpesvirus 1 (Herpesvirus salmonis)                  |
|   | 2 | Salmonid herpesvirus 2 (Oncorhynchus maso herpesvirus)         |
|   |   |  |
|   |   | <b>Arenaviridae</b>  |
|   |   | <i>Arenavirus</i> genus  |
|   |   | Old world Arenaviruses   |
| 2 |   | Ippy virus   |
| 4 | ‡ | Lassa virus  |
| 2 | 2 | Lymphocytic choriomeningitis virus                             |
| 3 | 2 | Lymphocytic choriomeningitis virus (neurotropic strains)       |
| 3 |   | Mobala virus   |
| 2 |   | Mopeia virus   |
|   |   | New world Arenaviruses   |

|   |   |  |
|---|---|--|
| 2 |   | Amapari virus  |
| 3 |   | Flexal virus   |
| 4 |   | Guanarito virus  |
| 4 | ‡ | Junín virus  |
| 2 |   | Junin virus vaccine strain Candid  |
| 2 |   | Latino virus   |
| 4 | ‡ | Machupo virus  |
|   | 2 | Oliveros virus   |
| 2 |   | Paraná virus   |
| 2 |   | Pichinde virus   |
|   | 3 | Pirital virus  |
| 4 |   | Sabiá virus  |
| 2 |   | Tacaribe virus   |
| 2 |   | Tamiami virus  |
| 3 | 3 | Whitewater Arroyo virus  |
|   |   |  |
|   |   | <b>Arteriviridae</b>   |
|   |   | <i>Arterivirus</i> genus   |
|   | 2 | Equine arteritis virus   |
|   | 2 | Lactate dehydrogenase-elevating virus  |
|   | 2 | Porcine respiratory and reproductive syndrome virus  |
|   | 3 | Simian haemorrhagic fever virus  |
|   |   |  |
|   |   | <b>Asfarviridae</b>  |
|   |   | <i>Asfivirus</i> genus   |
|   | 4 | African swine fever virus  |
|   |   |  |
|   |   | <b>Astroviridae</b>  |
|   | 2 | Bovine astrovirus 1,2  |
|   | 2 | Duck astrovirus 1  |
|   | 2 | Feline astrovirus 1  |
| 2 |   | Human astrovirus 1-8   |
|   | 2 | Ovine astrovirus   |
|   | 2 | Porcine astrovirus   |
|   | 2 | Turkey astrovirus  |
|   |   |  |
|   |   | <b>Baculoviridae (infecting invertebrates)</b>   |
|   |   | <i>Granulovirus</i> genus  |
|   | 2 | Type species : <i>Cydia pomonella</i> (CpGV)   |
|   |   | <i>Nucleopolyhedrovirus</i> genus  |
|   | 2 | Type species : <i>Autographa californica multiple-capsid nucleopolyhedrovirus</i> (AcMNPV) |

|   |   |                                      |
|---|---|--------------------------------------|
|   |   | <b><i>Birnaviridae</i></b>           |
|   |   | <i>Aquabirnavirus</i> genus          |
|   | 3 | Infectious pancreatic necrosis virus |
|   |   | <i>Avibirnavirus</i> genus           |
|   | 2 | Infectious bursal disease virus,     |
|   |   | <i>Entombirnavirus</i> genus         |
|   | 2 | Drosophila X virus                   |
|   |   | Unclassified Birnavirinae            |
|   | 2 | Rotifer birnavirus                   |
|   |   |                                      |
|   |   | <b><i>Bornaviridae</i></b>           |
|   |   | <i>Bornavirus</i> genus              |
| 2 | 3 | Borna Disease virus                  |
|   |   |                                      |
|   |   | <b><i>Bunyaviridae</i></b>           |
|   |   | <i>Orthobunyavirus</i> genus         |
|   |   | <i>Anopheles A</i> group             |
|   | 2 | Anopheles A virus                    |
| 2 |   | Tacaiuma virus                       |
|   | 2 | Alajuela virus                       |
|   | 2 | Anopheles B virus                    |
|   |   | Bakau group                          |
| 2 |   | Bakau virus                          |
|   | 3 | Telok Forest virus                   |
|   | 2 | Batama virus                         |
|   | 2 | Benevides virus                      |
|   |   | <i>Bertioga virus</i> group          |
|   | 2 | Guaratuba virus                      |
|   | 2 | Bimiti virus                         |
|   | 2 | Botambi virus                        |
|   |   | <i>Bunyamwera</i> group              |
| 2 | 2 | Bunyamwera virus                     |
| 2 | 3 | Cache Valley virus                   |
| 2 |   | Fort Sherman virus                   |
| 3 | 2 | Germiston virus                      |
| 3 |   | Ilesha virus                         |
| 3 | 3 | Kairi virus                          |
| 2 |   | Main Drain virus                     |
| 3 |   | Northway virus                       |
|   | 3 | Santa Rosa virus                     |
| 2 |   | Shokwe virus                         |

|   |   |                               |
|---|---|-------------------------------|
| 2 |   | Tensaw virus                  |
| 2 |   | Wyeomyia virus                |
| 2 |   | Xingu virus                   |
| 2 |   | Bushbush virus                |
|   |   | <i>Bwamba group</i>           |
| 2 |   | Bwamba virus                  |
| 2 |   | Pongola virus                 |
|   |   | <i>Group C</i>                |
| 2 |   | Apeu virus                    |
|   | 3 | Bruconha virus                |
| 2 |   | Caraparu virus                |
| 2 |   | Itaqui virus                  |
| 2 |   | Madrid virus                  |
| 2 |   | Marituba virus                |
| 2 |   | Murutucu virus                |
| 2 |   | Nepuyo                        |
| 2 |   | Oriboca virus                 |
| 2 |   | Ossa virus                    |
| 2 |   | Restan virus                  |
|   |   | <i>California group</i>       |
| 2 | 2 | California encephalitis virus |
| 2 |   | Guaroa virus                  |
| 2 |   | Inkoo virus                   |
| 2 |   | Jamestown Canyon virus        |
| 2 |   | Keystone virus                |
| 2 |   | La Crosse virus               |
| 2 |   | Snowshoe hare virus           |
| 2 |   | Tahyna virus                  |
|   | 2 | Capim virus                   |
|   | 2 | Gamboa virus                  |
|   | 2 | Guajara virus                 |
|   |   | <i>Guama group</i>            |
| 2 |   | Catu virus                    |
| 2 |   | Guama virus                   |
|   | 2 | Koongol virus                 |
|   | 2 | Manzanilla virus              |
|   | 3 | Inini virus                   |
|   | 2 | Minatitlan virus              |
|   | 2 | M'Poko virus                  |
| 2 |   | Nyando virus                  |
|   | 2 | Olifantsvlei virus            |
|   | 3 | Bobia virus                   |

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|---|---|--|
|   |   | <i>Patois group</i>                          |
| 2 |   | Patois virus                                 |
|   | 3 | Estero Real virus                            |
|   | 2 | Sathuperi virus                              |
|   | 2 | Shamonda virus                               |
| 2 |   | Shuni virus                                  |
|   | 3 | Aino virus                                   |
|   |   | <i>Simbu virus group</i>                     |
|   | 3 | Akabene virus                                |
|   | 2 | Ingwavuma virus                              |
| 3 |   | Oropouche virus                              |
|   |   | <i>Tete virus group</i>                      |
|   | 2 | Bahig virus                                  |
| 2 |   | Tete virus                                   |
| 2 |   | Weldona virus                                |
|   | 2 | Thimiri virus                                |
|   | 2 | Timboteua virus                              |
|   | 2 | Turlock virus                                |
| 2 |   | Zegla virus                                  |
|   |   | <i>Hantavirus genus</i>                      |
| 3 |   | El Moro Canyon virus                         |
|   |   | <i>Hantaan group</i>                         |
| 3 |   | Hantaan virus                                |
| 3 |   | Dobrova virus                                |
| 3 |   | Seoul virus                                  |
| 2 |   | Prospect Hill virus                          |
|   |   | <i>Puumala group</i>                         |
| 3 |   | Puumala virus                                |
|   |   | <i>Sin Nombre group</i>                      |
| 3 |   | Sin Nombre virus                             |
| 3 |   | Bayou virus                                  |
| 3 |   | Black Creek Canal virus                      |
| 3 |   | Andes virus                                  |
| 3 |   | Laguna negra virus                           |
| 3 |   | Juquitiba virus                              |
| 3 |   | Araraquara virus                             |
| 3 |   | Castelo dos Sonhos virus                     |
| 3 | 2 | Choclo virus                                 |
|   |   | <i>Thottapalayam group</i>                   |
| 2 |   | Thottapalayam virus                          |
|   |   | <i>Nairovirus genus</i>                      |
|   |   | <i>Crimean-Congo hemorrhagic fever group</i> |

|   |   |  |
|---|---|--|
| 4 | ‡ | Crimean-Congo hemorrhagic fever virus  |
| 2 |   | Hazara virus                           |
| 2 |   | Dera Ghazi Khan virus                  |
| 2 |   | Hughes virus                           |
|   |   | <i>Nairobi sheep disease group</i>     |
| 3 | 3 | Nairobi sheep disease virus            |
| 3 |   | Dugbe virus                            |
|   |   | Qalyub virus                           |
|   | 2 | Sakhalin virus                         |
| 3 |   | Thiafora virus                         |
|   |   | <i>Phlebovirus</i> genus               |
|   | 2 | Buyaru virus                           |
|   | 3 | Itaituba virus                         |
|   | 2 | Chilibre virus                         |
|   | 2 | Frijoles virus                         |
|   |   | <i>Sandfly fever Naples group</i>      |
|   | 3 | Buenaventura virus                     |
| 2 |   | Candiru virus                          |
| 2 |   | Punta Toro virus                       |
| 3 | 3 | Rift Valley virus                      |
| 2 |   | Rift Valley virus vaccine strain MP-12 |
| 2 |   | Sanfly fever                           |
| 2 |   | Sandfly fever Naples virus             |
| 2 |   | Toscana virus                          |
| 2 |   | Uukuniemi virus                        |
|   |   | Unassigned viruses in the family       |
|   | 2 | Gordil virus                           |
|   | 3 | Boboya virus                           |
|   | 3 | Chim virus                             |
| 3 |   | Issyk-Kul virus                        |
|   | 3 | Razdan virus                           |
|   | 3 | Tai virus                              |
| 3 |   | Tamdy virus                            |
|   |   |  |
|   |   | <b><i>Caliciviridae</i></b>            |
|   |   | <i>Lagovirus</i> genus                 |
|   | 2 | European brown hare syndrome virus     |
|   | 3 | Rabbit haemorrhagic disease virus      |
|   |   | <i>Norovirus</i> genus                 |
|   | 2 | Bovine enteric calicivirus             |
| 2 |   | Norwalk virus                          |
|   |   | <i>Sapovirus</i> genus                 |

|   |   |  |
|---|---|--|
|   | 2 | Porcine enteric calicivirus                          |
| 2 |   | <i>Sapporo virus</i>                                 |
|   |   | <i>Vesivirus</i> genus                               |
|   | 2 | Feline calicivirus                                   |
|   | 3 | Vesicular exanthema of swine virus                   |
|   | 2 | Bovine calicivirus                                   |
|   | 2 | Primate calicivirus                                  |
|   | 3 | San Miguel sea lion virus                            |
|   |   | Unassigned viruses in the family                     |
|   | 2 | Canine calicivirus                                   |
|   | 2 | Fowl calicivirus                                     |
|   |   |  |
|   |   | <b><i>Circoviridae</i></b>                           |
|   |   | <i>Circovirus</i> genus                              |
|   | 2 | Beak and feather disease virus                       |
|   | 2 | Porcine circovirus                                   |
|   |   | <i>Gyrovirus</i> genus                               |
|   | 2 | Chicken anaemia virus                                |
|   |   |  |
|   |   | <b><i>Coronaviridae</i></b>                          |
|   |   | <i>Coronavirus</i> genus                             |
|   |   | Group I species:                                     |
|   | 2 | Canine coronavirus                                   |
|   | 2 | Feline coronavirus                                   |
|   | 2 | Feline infectious peritonitis virus                  |
| 2 |   | Human coronaviruses 229E                             |
|   | 2 | Porcine epidemic diarrhoea virus                     |
|   | 2 | Transmissible gastroenteritis virus                  |
|   | 2 | Porcine respiratory coronavirus                      |
|   |   | Group II species:                                    |
|   | 2 | Bovine coronavirus                                   |
| 2 |   | Human coronaviruses OC43                             |
|   | 2 | Murine hepatitis virus                               |
|   | 2 | Porcine haemagglutinating encephalomyelitis virus    |
|   | 2 | Rat coronavirus                                      |
|   |   | Group III species:                                   |
|   | 2 | Avian infectious bronchitis virus                    |
|   | 2 | Turkey coronavirus                                   |
| 3 | 3 | Severe Acute Respiratory Syndrome Coronavirus (SARS) |
|   |   | <i>Torovirus</i> genus                               |
|   |   | Bovine torovirus                                     |
|   | 2 | Breda virus  |

|       |   |  |
|-------|---|--|
|       |   | Equine torovirus   |
| 2     | 2 | Berne virus  |
| 2     |   | Human torovirus  |
|       | 2 | Porcine torovirus  |
|       |   |  |
|       |   | <b><i>Dicistroviridae</i></b>                                |
|       |   | <i>Cripavirus</i> genus                                      |
|       | 2 | Black queen cell virus                                       |
|       | 2 | Cricker paralysis virus                                      |
|       | 2 | Drosophila C virus   |
|       | 2 | Pteromau puparum small RNA-containing virus                  |
|       | 2 | Rhopulosiphum padi virus                                     |
|       |   | Unassigned virusses in the familiy                           |
|       | 2 | Acute bee paralysis virus                                    |
|       |   |  |
|       |   | <b><i>Filoviridae</i></b>                                    |
|       |   | <i>Ebolavirus</i> genus                                      |
| 4     | 4 | Cote d'Ivoire Ebola virus                                    |
| 4     | 4 | Reston Ebola virus   |
| 4     | 4 | Sudan Ebola virus  |
| 4     | 4 | Zaire Ebola virus  |
|       |   | <i>Unclassified Ebola-like viruses</i>                       |
| 4     | 4 | Bundibugyo Ebola virus                                       |
|       |   | <i>Marburgvirus</i> genus                                    |
| 4     | 4 | Lake Victoria Marburg virus                                  |
|       |   |  |
|       |   | <b><i>Flaviviridae</i></b>                                   |
|       |   | 1. Tick-borne viruses  |
|       |   | <i>Mammalian tick-bone virus group :</i>                     |
|       | 3 | Gadgets Gully virus  |
|       | 2 | Kadam virus  |
| 3     | 3 | Kyasanur Forest disease virus                                |
| 2     | 2 | Langat virus   |
| 3(*)  | 3 | Louping ill virus  |
| 3     |   | Omsk heamorrhagic fever virus                                |
| 3     | 2 | Powassan virus   |
| 3 (*) |   | Tick-borne encephalitis virus                                |
|       |   | <i>Central European tick-born encephalitis virus group :</i> |
| 3     |   | Absettarov virus   |
| 3     |   | Hanzalova virus  |
| 3     |   | Hypr virus   |
| 3     |   | Kumlinge virus   |



|       |   |  |
|-------|---|--|
| 3     | ‡ | Russian spring summer encephalitis virus   |
|       |   | <i>Seabird tick-born virus group</i>       |
|       | 3 | Meaban virus                               |
|       | 3 | Saumarez Reef virus                        |
|       | 2 | Tyuleniy virus                             |
|       |   | 2. Mosquito-borne viruses                  |
|       |   | <i>Dengue virus group :</i>                |
| 3     |   | Dengue virus 1-4                           |
|       | 3 | Kedougou virus                             |
|       |   | <i>Japanese encephalitis virus group</i>   |
|       | 3 | Cacipacore virus                           |
| 3     |   | Koutango virus                             |
| 3     | ‡ | Japanese encephalitis virus                |
| 3     |   | Murray Valley encephalitis virus           |
| 3     | 2 | St Louis encephalitis virus                |
| 3     | 3 | West Nile virus                            |
| 2     |   | Kunjin virus                               |
|       |   | <i>Kokobera virus group</i>                |
| 2     |   | Kokobera virus                             |
|       |   | <i>Ntaya virus group</i>                   |
| 2     |   | Ilheus virus                               |
| 3     |   | Rocio virus                                |
| 3     |   | Israel turkey meningoencephalitis virus    |
|       |   | <i>Sponweni virus group</i>                |
| 2     |   | Zika virus                                 |
| 3     |   | Spondweni virus                            |
|       |   | <i>Yellow fever virus group</i>            |
| 2     | 3 | Sepik virus                                |
| 3 (*) | 3 | Wesselsbron virus                          |
| 3     | ‡ | Yellow fever virus                         |
| 2     |   | Yellow fever vaccine strain 17D            |
|       |   | 3. Virusses with no known arthropod vector |
|       |   | <i>Modoc virus group</i>                   |
|       | 2 | Modoc virus                                |
| 3     |   | Sal Vieja virus                            |
| 3     |   | San Perlita virus                          |
|       |   | <i>Rio Bravo virus group</i>               |
| 2     | 3 | Rio Bravo virus                            |
|       |   | <i>Hepacivirus genus</i>                   |
| 3 (*) |   | Hepatitis C virus                          |
|       |   | <i>Pestivirus genus</i>                    |
|       | 2 | Border disease virus                       |

|       |   |   |
|-------|---|---|
|       | 2 | Bovine viral diarrhoea virus type I and II          |
|       | 4 | Classical swine fever virus (Hog cholera virus)     |
|       |   | Unassigned species in the family                    |
| 3 (*) |   | Hepatitis G virus                                   |
|       |   | <b>Hepadnaviridae</b>                               |
|       |   | <i>Avihepadnavirus</i> genus                        |
|       | 2 | Duck hepatitis B virus                              |
|       | 2 | Heron hepatitis B virus                             |
|       |   | <i>Deltavirus</i> genus                             |
| 3 (*) |   | Hepatitis delta virus                               |
|       |   | <i>Orthohepadnavirus</i> genus                      |
|       | 3 | Ground squirrel hepatitis virus                     |
| 3 (*) |   | Hepatitis B virus                                   |
|       | 3 | Woodchuck hepatitis virus                           |
|       |   | <b>Herpesviridae</b>                                |
|       |   | <b>Alphaherpesvirinae subfamily</b>                 |
|       |   | <i>Illtovirus</i> genus                             |
|       | 2 | Gallid herpesvirus 1                                |
|       |   | <i>Mardivirus</i> genus                             |
|       | 2 | Columbid herpesvirus 1 (Pigeon herpesvirus)         |
|       | 2 | Gallid herpesvirus 2 (Marek's disease virus type 1) |
|       | 2 | Gallid herpesvirus 3 (Marek's disease virus type 2) |
|       | 2 | Gallid herpesvirus 2                                |
|       | 2 | Meleagrid herpesvirus 1 (Turkey herpesvirus)        |
|       |   | <i>Simplexvirus</i> genus                           |
|       | 2 | Ateline herpesvirus 1 (Spider monkey herpesvirus)   |
|       |   | Bovine herpesvirus 2                                |
| 3     | 2 | Cercopithecine herpesvirus 1 (B virus)              |
| 3     | 2 | Cercopithecine herpesvirus 2, (Baboon herpesvirus)  |
| 2     |   | Human herpesvirus 1                                 |
| 2     |   | Human herpesvirus 2                                 |
|       |   | Varicellovirus genus                                |
|       | 2 | Bovine herpesvirus 1                                |
|       | 2 | Bovine herpesvirus 5                                |
|       | 2 | Canid herpesvirus 1                                 |
|       | 2 | Caprine herpesvirus 1                               |
|       | 2 | Equid herpesvirus 1                                 |
|       | 2 | Equid herpesviruses 2, 3                            |
|       | 2 | Equid herpesvirus 4                                 |
|       | 2 | Felid herpesvirus 1                                 |

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|---|---|---|
| 2 |   | Human herpesvirus 3 (Varicella-zoster virus 1)  |
|   | 2 | Phocid herpesvirus 1  |
|   | 3 | Suid herpesvirus 1 (Pseudorabies, "Aujeszky disease")   |
|   |   | Unclassified Alphaherpesvirinae   |
|   | 2 | Bovine herpesvirus 3  |
|   | 2 | Duck enteritis virus  |
|   |   | <b>Betaherpesvirinae subfamily</b>  |
|   |   | <i>Cytomegalovirus</i> genus  |
| 2 |   | Human herpesvirus 5 (Human cytomegalovirus)   |
|   |   | <i>Muromegalovirus</i> genus  |
|   | 2 | Murid herpesvirus 1 (mouse cytomegalovirus)   |
|   | 2 | Murid herpesvirus ( rat cytomegalovirus)  |
|   |   | <i>Roseolovirus</i> genus   |
| 2 |   | Human herpesvirus 6 (Human B-lymphotropic virus )   |
| 2 |   | Human herpesvirus 7   |
|   |   | Unclassified Betaherpesvirinae  |
|   | 2 | Caviid herpesvirus 2 (Guinea pig cytomegalovirus)   |
|   |   | <b>Gammaherpesvirinae subfamily</b>   |
|   |   | <i>Lymphocryptovirus</i> genus  |
|   | 2 | Cercopithecine herpesvirus 12 (Baboon herpesvirus)  |
| 2 |   | Human herpesvirus 4 (Epstein-Barr virus)  |
|   | 2 | Pongine herpesvirus 1 ( Herpesvirus pan)  |
|   | 2 | Pongine herpesvirus 2 ( Orangutan herpesvirus)  |
|   | 2 | Pongine herpesvirus 3 ( Gorilla herpesvirus)  |
|   |   | <i>Macavirus</i> genus  |
|   | 3 | Alcelaphine herpesvirus 1 (Bovine malignant catarrhal fever)  |
|   | 2 | Ovine herpesvirus 2 (sheep-associated malignant catarrhal fever virus) , 3 herpesvirus of goat/sheep volgens BCCM |
|   |   | <i>Percavirus</i> genus   |
|   | 2 | Equid herpesvirus 2   |
|   | 2 | Equid herpesvirus 5   |
|   |   | <i>Rhadinovirus</i> genus   |
|   | 2 | Ateline herpesvirus 2 (Herpesvirus Ateles)  |
|   | 2 | Bovine herpesvirus 4 (Movar virus)  |
| 2 |   | Human herpesvirus 8 (Kaposi's sarcoma-associated herpesvirus)   |
|   | 2 | Saimiriine herpesvirus 2 (Herpesvirus Saimiri)  |
|   |   | Tentative species in the genus  |
|   | 2 | Herpesvirus of the rabbit   |
|   | 2 | Leporid herpesvirus 2 (Herpesvirus cuniculli)   |
|   |   | Unclassified Gammaherpesvirinae   |
|   | 2 | Equid herpesvirus 7 (Asinine herpesvirus 2)   |
|   |   | Unassigned Herpesviridae  |

|   |   |  |
|---|---|--|
|   | 2 | Ovine herpesvirus 1 (sheep pulmonary adenomatosis associated herpesvirs) |
|   |   | Unclassified Herpesviridae   |
|   | 2 | Anatid herpesvirus 1 (Duck plague herpesvirus)                           |
|   | 2 | Chelonid herpesvirus 1 (grey patch disease of turtles virus)             |
|   | 2 | Chelonid herpesvirus 2 (Pacific pond turtle herpesvirus)                 |
|   | 2 | Chelonid herpesvirus 3 (Painted turtle herpesvirus)                      |
|   | 2 | Chelonid herpesvirus 4 (Argentine turtle herpesvirus)                    |
|   | 2 | Esocid herpesvirus 1 (Northern pike herpesvirus)                         |
|   | 2 | Lacertid herpesvirus (green lizard herpesvirus)                          |
|   | 2 | Pleuronectid herpesvirus 1 (Turbot herpesvirus disease)                  |
|   | 2 | Suid herpesvirus 2 (Swine cytomegalovirus)                               |
|   |   |  |
|   |   | <b>Iridoviridae</b>  |
|   |   | Iridoviruses of amphibians:  |
|   | 2 | Bullfrog (TEV)   |
|   | 2 | Frog viruses (FV 1 to 3, FV 9 to 24)                                     |
|   | 2 | Leopard frog iridoviruses (I 4 to 5)                                     |
|   | 2 | Newt viruses (T 6 to 21, LT 1 to 4)                                      |
|   |   | Iridoviruses of crustaceans and molluscs:                                |
|   | 2 | Iridoviruses of crustaceans and molluscs                                 |
|   |   | Iridoviruses of fishes:  |
|   | 3 | Erythrocytic necrosis virus  |
|   | 2 | Iridoviruses of cichlids, perch, goldfish, common cod, carp and cat-fish |
|   | 2 | Lymphocystis disease virus   |
|   |   | Iridoviruses of insects:   |
|   | 2 | Tipula iridescent virus (TIV)  |
|   |   | Iridoviruses of reptiles:  |
|   | 2 | Gecko virus  |
|   |   |  |
|   |   | <b>Malacoherpesviridae</b>   |
|   | 2 | Herpesviruses of crustaceans and molluscs                                |
|   |   |  |
|   |   | <b>Nodaviridae</b>   |
|   | 2 | Striped jack nervous necrosis virus                                      |
|   |   |  |
|   |   | <b>Orthomyxoviridae</b>  |
|   |   | <i>Influenza A</i> genus   |
| 2 | 3 | Influenza A virus  |
|   |   | <i>Influenza B</i> genus   |
| 2 | 3 | Influenza B virus  |
|   |   | <i>Influenza C</i> genus   |
| 2 | 3 | Influenza C virus  |

|   |   |  |
|---|---|--|
|   |   | <i>Isavirus</i> genus                                  |
|   | 3 | Infectious salmon anemia virus                         |
|   |   | <i>Thogotovirus</i> genus                              |
|   |   | Dhori virus  |
| 3 |   | Batken virus   |
| 3 |   | Thogoto virus  |
|   |   | Unclassified Orthomyxoviridae                          |
|   | 3 | Araguari virus   |
| 2 | 3 | Fowl plague virus                                      |
| 2 | 2 | Swine influenza virus A                                |
|   |   |  |
|   |   | <b><i>Papillomaviridae</i></b>                         |
|   |   | <i>Papillomaviridae</i> genus                          |
|   | 2 | Animal papillomaviruses                                |
| 2 |   | Human papillomaviruses (HPV)                           |
|   |   |  |
|   |   | <b><i>Paramyxoviridae</i></b>                          |
|   |   | <b><i>Paramyxovirinae</i> subfamily</b>                |
|   |   | <i>Avulavirus</i> genus                                |
|   | 2 | Avian paramyxoviruses                                  |
| 2 | 3 | Newcastle disease virus (Avian parainfluenza virus 1)  |
|   |   | <i>Henipavirus</i> genus                               |
| 4 | 3 | Hendra virus (Equine morbillivirus, EMV)               |
| 4 | 3 | Nipah virus  |
|   |   | <i>Morbillivirus</i> genus                             |
|   | 3 | Canine distemper virus (Carre's virus)                 |
|   | 2 | Cetacean morbillivirus                                 |
| 2 |   | Measles virus  |
|   | 4 | Peste-des-petits-ruminants virus (PPRV)                |
|   | 3 | Phocine distemper virus (Seal distemper virus)         |
|   | 4 | Rinderpest virus (Cattle plague virus)                 |
|   |   | <i>Respirovirus</i> genus                              |
|   | 2 | Bovine parainfluenzavirus 3                            |
| 2 | 2 | Human parainfluenzavirus 1                             |
| 2 | 2 | Human parainfluenzavirus 3                             |
|   | 2 | Sendai virus (Murin parainfluenza virus 1)             |
|   | 2 | Simian virus 10  |
|   |   | <i>Rubulavirus</i> genus                               |
| 2 | 2 | Human Parainfluenza viruses types 2 & 4                |
|   | 3 | Mapuera virus  |
| 2 |   | Mumps virus  |
|   | 2 | Porcine rubulavirus (La Piedad-Michoacan-Mexico virus) |

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|---|---|--|
|   | 2 | Simian virus 5                                       |
|   | 2 | Simian virus 41                                      |
|   |   | <b><i>Pneumovirinae</i> subfamily</b>                |
|   |   | <i>Pneumovirus</i> genus                             |
|   | 2 | Murine pneumoniavirus                                |
| 2 |   | Human Respiratory syncytial virus                    |
|   | 2 | Respiratory syncytial virus (bovine, caprine, ovine) |
|   |   | Metapneumovirus genus                                |
|   | 2 | Turkey rhinotracheitis (TRT) (Avian pneumovirus)     |
| 2 |   | Human metpneumovirus                                 |
|   |   | <b><i>Parvoviridae</i></b>                           |
|   |   | <i>Amdovirus</i> genus                               |
|   | 3 | Aleutian mink disease virus                          |
|   |   | <i>Betaparvovirus</i> genus                          |
|   | 2 | Bovine parvovirus                                    |
|   | 2 | Canine minute virus                                  |
|   |   | <i>Dependovirus</i> genus                            |
|   | 2 | Animal Adeno-associated viruses AAV                  |
| 2 |   | Human Adeno-associated viruses AAV                   |
|   | 2 | Goose parvovirus                                     |
|   |   | <i>Erythrovirus</i> genus                            |
| 2 |   | Human parvovirus (B 19)                              |
|   | 2 | Pig-tailed macaque parvovirus                        |
|   | 2 | Rhesus macaque parvovirus                            |
|   | 2 | Simian parvovirus                                    |
|   |   | <i>Parvovirus</i> genus                              |
|   | 2 | Canine parvovirus (CPV)                              |
|   | 2 | Chicken parvovirus                                   |
|   | 2 | Feline panleukopenia virus                           |
|   | 2 | Feline parvovirus                                    |
|   | 2 | HB parvovirus  |
|   | 2 | H-1 parvovirus                                       |
|   | 2 | Kilham rat virus (KRV)                               |
|   | 2 | Lapine parvovirus                                    |
|   | 3 | Mink enteritis virus                                 |
|   | 2 | Mice minute virus                                    |
|   | 2 | Porcine parvovirus                                   |
|   |   | <b><i>Picornaviridae</i></b>                         |
|   | 2 | Picornaviruses of crustaceans, molluscs, and fishes  |
|   |   | <i>Aphtovirus</i> genus                              |

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|---|---|---|
|   | 2 | Equine rhinitis A virus (formerly Equine rhinovirus 1 virus)                          |
|   | 4 | Foot-and-mouth disease viruses  |
|   |   | <i>Cardiovirus</i> genus  |
|   |   | Encephalomyocarditis group of viruses   |
| 2 |   | Mengovirus  |
| 2 |   | Columbia SK virus   |
| 2 |   | Maus Elberfeld virus  |
|   |   | Theilovirus group   |
|   | 2 | Theiler's murine encephalomyelitis virus  |
| 2 | 2 | Vilyuisk human encephalomyelitis virus  |
|   | 2 | Rat encephalomyelitis virus   |
|   |   | <i>Enterovirus</i> genus  |
|   | 2 | Bovine enteroviruses types 1-7  |
| 2 |   | Human enteroviruses A, B, C & D (Coxsackieviruses, Echoviruses, human enterovirus 70) |
|   | 2 | Monkey enteroviruses  |
| 2 |   | Polioviruses 1, 2 & 3   |
|   | 2 | Porcine enterovirus A   |
| 2 | 2 | Porcine enterovirus B   |
| 2 | 3 | Swine vesicular disease virus   |
|   |   | <i>Unclassified Enteroviruses</i>   |
| 2 |   | <i>Human coxsackievirus A4, A6</i>  |
|   | 2 | <i>Simian enterovirus 1-18</i>  |
| 2 | 2 | <i>Simian enterovirus N125, N203</i>  |
|   |   | <i>Erbovirus</i> genus  |
|   | 2 | Equine rhinitis B virus (formerly Equine rhinovirus 2 virus)                          |
|   |   | <i>Hepatovirus</i> genus  |
| 2 |   | Human hepatitis A virus   |
|   | 2 | Simian hepatitis A virus  |
|   |   | Unclassified Hepatovirus  |
|   | 3 | Avian encephalomyelitis virus   |
|   |   | <i>Kobuvirus</i> genus  |
| 2 |   | Aichi virus   |
|   |   | <i>Parechovirus</i> genus   |
| 2 |   | Human parechovirus 1-6  |
|   |   | <i>Rhinovirus</i> genus   |
|   | 2 | Bovine rhinoviruses (types 1-3)   |
| 2 |   | Human rhinoviruses  |
|   |   | <i>Teschovirus</i> genus  |
|   | 3 | Porcine teschovirus 1 (Teschen disease)   |
|   | 2 | Porcine teschovirus 2-11  |
|   |   | Unclassified Picornaviridae   |

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|---|---|--|
|   | 2 | Avian entero-like virus 2-4                  |
|   | 2 | Duck hepatitis virus 1 &3                    |
|   | 2 | Equine rhinovirus type 3                     |
|   | 2 | Turkey hepatitis virus                       |
|   |   |  |
|   |   | <b><i>Polyomaviridae</i></b>                 |
|   | 2 | African green monkey polyomavirus            |
|   | 2 | B-lymphotropic polyomavirus                  |
|   | 2 | Baboon polyomavirus 2                        |
| 2 |   | BK polyomavirus                              |
|   | 2 | Bovine polyomavirus (BpoV)                   |
|   | 2 | Budgerigar fledgling polyomavirus            |
|   | 2 | Hamster polyomavirus                         |
| 2 |   | JC polyomavirus                              |
|   | 2 | Murine pneumotroic virus &                   |
|   | 2 | Murine polyomavirus (K virus)                |
|   | 2 | Rabbit kidney vacuolating virus (RK virus)   |
|   | 2 | Simian virus 12                              |
| 2 | 2 | Simian virus 40                              |
|   |   | Unclassified polyomavirus                    |
| 2 |   | JC virus x BK virus                          |
|   |   |  |
|   |   | <b><i>Poxviridae</i></b>                     |
|   |   | Chordopoxvirinae (Poxviruses of vertebrates) |
|   |   | <i>Avipoxvirus</i> genus                     |
|   | 2 | Fowlpox virus                                |
|   | 2 | Other avipoxviruses                          |
|   |   | <i>Capripoxvirus</i> genus                   |
|   | 3 | Goatpox virus                                |
|   | 3 | Lumpy skin disease virus                     |
|   | 3 | Sheeppox virus                               |
|   | 3 | Goatpox virus                                |
|   |   | <i>Leporipoxvirus</i> genus                  |
|   | 2 | Fibroma viruses                              |
|   | 3 | Myxoma virus                                 |
|   |   | <i>Molluscipoxvirus</i> genus                |
| 2 |   | Molluscum contagiosum virus                  |
|   |   | <i>Orthopoxvirus</i> genus                   |
|   | 3 | Camelpox virus                               |
| 2 | 2 | Cowpox virus                                 |
|   | 3 | Ectromelia virus ("Mousepox")                |
| 2 | 2 | Elephantpox virus (variant of "cowpox")      |



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|---|---|--|
| 2 | 3 | Horsepox virus   |
| 3 | 3 | Monkeypox virus  |
|   | 2 | Raccoonpox virus   |
|   | 2 | Taterapox (Gerbilpox) virus  |
|   | 2 | Uasin Gishu disease virus  |
| 2 | 2 | Vaccinia virus   |
| 2 | 2 | Buffalopox virus   |
| 2 | 3 | Rabbitpox virus  |
| 4 |   | Variola (major & minor) virus  |
|   | 2 | Vole pox   |
| 4 | ‡ | White pox (Variola virus)  |
|   |   | <i>Parapoxvirus</i> genus  |
|   | 2 | Orf virus (Contagious ecthyma of camels)                                       |
|   | 2 | Chamois contagious ecthyma   |
| 2 | 3 | Orf virus (Contagious ecthyma of sheep)  |
| 2 | 2 | Pseudocowpox viruses (bovine papular stomatitis, milker's nodes, paravaccinia) |
|   | 2 | Sealpox virus  |
|   |   | <i>Suipoxvirus</i> genus   |
|   | 2 | Swinepox virus   |
|   |   | <i>Yatapoxvirus</i> genus  |
| 2 | 2 | Yatapox viruses (Tana & Yaba)  |
|   |   | Entomopoxvirinae (Poxviruses of insects)                                       |
|   | 2 | Entomopoxviruses   |
|   |   |  |
|   |   | <b>Reoviridae</b>  |
|   |   | <i>Aquareovirus</i> genus  |
|   | 3 | Golden shiner reovirus   |
|   |   | <i>Coltivirus</i> genus  |
| 2 | 2 | Colorado tick fever virus  |
| 2 |   | Eyach virus  |
| 3 |   | Banna virus  |
|   |   | <i>Orbivirus</i> genus   |
|   | 3 | African horse sickness virus   |
|   | 3 | Bluetongue virus (BTV)   |
| 2 |   | Changuinola virus  |
| 2 |   | Chenuda virus  |
| 2 |   | Chobar Gorge virus   |
| 2 |   | Corriparta virus   |
|   | 3 | Epizootic hemorrhagic disease virus (EHD)                                      |
|   | 3 | Ibaraki virus  |
| 2 | 2 | Equine encephalosis virus  |
|   | 2 | Eubenangee virus   |

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|   | 2 | Ieri virus   |
|   | 2 | Great island virus   |
| 2 |   | Lebombo virus  |
| 3 |   | Orungo virus   |
|   | 2 | Umatilla virus   |
|   | 2 | Wad Medani virus   |
|   | 2 | Wallal virus   |
|   | 2 | Warrego virus  |
|   | 2 | Wongorr virus  |
|   |   | <i>Orthoreovirus</i> genus   |
| 2 | 2 | Orthoreoviruses  |
|   |   | <i>Rotavirus</i> genus   |
|   | 2 | Rotavirus A  |
| 2 |   | Human Rotavirus A  |
|   | 2 | Simian rotavirus A/SA11  |
|   | 2 | Rotavirus B  |
| 2 | 2 | Human Rotavirus B  |
|   | 2 | Rotavirus C  |
| 2 | 2 | Human Rotavirus C  |
|   |   | Unclassified Rotaviruses   |
|   | 2 | Murine ouse rotavirus (EDIM, epizootic diarrhoea of infant mice)         |
| 2 | 2 | Rat rotavirus  |
| 2 | 2 | other Rotaviruses known to be pathogenic for animals                     |
|   |   |  |
|   |   | <b><i>Retroviridae</i></b>   |
|   | 2 | Retroviruses of fish and reptiles  |
|   |   | <i>Alpharetrovirus</i> genus   |
|   | 2 | Avian leukosis viruses (ALV)   |
|   | 2 | Avian sarcoma viruses (Rous sarcoma virus, RSV)                          |
|   |   | <i>Betaretrovirus</i> genus  |
|   | 2 | Mason-Pfizer monkey virus  |
|   | 2 | Simian retrovirus 1  |
|   | 2 | Simian retrovirus 2  |
|   | 3 | Murine mammary tumor viruses (MMTV)                                      |
|   | 2 | Ovine Jaagsiekte sheep retrovirus (Ovine pulmonary adenocarcinoma virus) |
|   | 2 | Squirrel monkey retrovirus   |
|   |   | <i>Gammaretrovirus</i> genus   |
|   |   | <b><i>Replication competent virus</i></b>                                |
|   | 3 | Feline leukemia virus (FeLV, feline lymphosarcoma virus)                 |
|   | 3 | Feline sarcoma virus (FeSV)  |
|   | 2 | Gibbon ape leukemia virus  |

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|-------|-------|--|
|       | 3     | Guinea pig & hamster type-C oncovirus (guinea pig & hamster lymphosarcoma virus) |
|       | 3     | Murine leukemia viruses (MuLV, murine lymphosarcoma virus)                       |
|       | 2     | Abelson murine leukemia virus  |
|       | 2     | AKR (endogenous) murine leukemia virus   |
|       | 2     | Moloney murine leukemia virus  |
|       | 3     | Porcine type C oncovirus   |
|       |       | <b>Replication defective virus</b>   |
|       | 3     | Murine sarcoma viruses (MuSV)  |
|       | 2     | Feline sarcoma virus   |
|       | 3     | Simian sarcoma viruses (SSV)   |
|       | 3     | Snake sarcoma viruses  |
|       |       | <i>Deltaretrovirus</i> genus   |
|       | 3     | Bovine leukemia virus (BLV, Bovine lymphosarcoma virus)                          |
| 3 (*) |       | Human T-cell lymphotropic viruses (HTLV) types 1 & 2                             |
|       | 2     | Simian T-lymphotropic virus types 1&2  |
|       |       | <i>Lentivirus</i> genus  |
|       | 3     | Bovine immunodeficiency virus (BIV)  |
|       | 3     | Caprine arthritis encephalitis virus (CAEV)                                      |
|       | 2     | Equine infectious anemia virus   |
|       | 3     | Feline immunodeficiency virus (FIV)  |
| 3 (*) |       | Human immunodeficiency viruses 1&2(HIV)  |
| 3 (*) | 3 (*) | Simian immunodeficiency virus (SIV)  |
|       | 3     | Visna Maedi virus  |
|       |       | <i>Spumavirus</i> genus  |
|       | 2     | Bovine foamy virus   |
|       | 2     | Chimpanzee foamy virus   |
|       | 2     | Feline foamy virus   |
|       | 2     | Simian foamy virus 1 & 3   |
|       |       |  |
|       |       | <b>Rhabdoviridae</b>   |
|       |       | <i>Ephemerovirus</i> genus   |
| 3     |       | Adelaide River virus   |
| 3     |       | Berrimah virus   |
|       | 3     | Bovine ephemeral fever virus   |
|       |       | <i>Lyssavirus</i> genus  |
| 3     |       | Australian bat lyssavirus  |
| 3     | 2     | Duvenhage virus  |
| 3     |       | European bat lyssavirus 1 & 2  |
| 3     |       | Lagos bat virus  |
| 3     | 2     | Mokola virus   |
| 3     | 3     | Rabies virus   |

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|-------|---|--|
|       | 2 | Other invertebrate lyssaviruses                    |
|       | 2 | Other vertebrate lyssaviruses                      |
| 3     |   | Rochambeau virus                                   |
|       |   | <i>Novirhabdovirus</i> genus                       |
|       | 2 | Hirame rhabdovirus                                 |
|       | 4 | Infectious hematopoietic necrosis virus            |
|       | 3 | Viral hemorrhagic septicemia virus (Egtved virus)  |
|       |   | <i>Temptative species in genus</i>                 |
|       | 2 | Eel virus B12                                      |
|       | 2 | Eel virus C26                                      |
|       | 2 | Snakehead rhabdovirus                              |
|       |   | <i>Vesiculovirus</i> genus                         |
|       | 2 | Eel rhabdovirus (EVA, EVX)                         |
| 2     | 2 | Chandipura virus                                   |
|       | 3 | Cocal virus  |
| 2     |   | Isfahan virus                                      |
| 3     | 2 | Piry virus   |
| 3     | 3 | Vesicular stomatitis Alagoas virus                 |
| 2     | 3 | Vesicular stomatitis Indiana virus                 |
| 2     | 3 | Vesicular stomatitis New Jersey virus              |
| 2     | 3 | Virulent vesicular stomatitis virus field isolates |
|       |   | <i>Tentative species in the genus</i>              |
|       | 2 | Pike fry rhabdovirus                               |
|       | 3 | Spring viremia of carp virus                       |
|       | 2 | Ulcerative disease rhabdovirus                     |
|       |   |  |
|       |   | <b><i>Togaviridae</i></b>                          |
|       |   | <i>Alphavirus</i> genus                            |
|       | 2 | Aura virus   |
|       | 2 | Barmah Forest virus                                |
| 2     |   | Bebaru virus                                       |
|       | 3 | Cabassou virus                                     |
| 3 (*) | ‡ | Chikungunya virus                                  |
| 3     | 3 | Eastern equine encephalitis virus                  |
| 3 (*) |   | Everglades virus                                   |
|       | 2 | Fort Morgan virus                                  |
|       | 3 | Getah virus  |
|       | 2 | Highlands J virus                                  |
|       | 3 | Kyzylagach virus                                   |
| 3     |   | Mayaro virus                                       |
|       | 3 | Middelburg virus                                   |
| 3 (*) | ‡ | Mucambo virus                                      |

|       |       |  |
|-------|-------|--|
| 3     | 3     | Ndumu virus  |
| 2     |       | O'nyong-nyong virus  |
|       | 2     | Pixuna virus   |
| 2     |       | Ross River virus   |
|       | 3     | Sagiyama virus   |
| 2     | ‡     | Semliki Forest virus   |
| 2     | 2     | Sindbis virus  |
| 3 (*) |       | Tonate virus   |
| 3     | 3     | Venezuelan equine encephalitis virus   |
| 3     | 3     | Western equine encephalitis virus  |
|       | 2     | Whataroa virus   |
|       |       | <i>Rubivirus</i> genus   |
| 2     |       | Rubella virus  |
|       |       | <b>Unclassified genera</b>   |
|       |       | <i>Deltavirus</i> genus  |
| 3 (*) |       | Hepatitis delta virus  |
|       |       | <i>Hepevirus</i> genus   |
| 3 (*) |       | Hepatitis E virus  |
|       |       | <b>Ongeklasseerd</b>   |
| 3 (*) |       | Unidentified Blood-borne hepatitis viruses   |
|       |       | <b>Unconventional agents associated with transmissible spongiform encephalopathies (TSEs):</b> |
| 3 (*) | 3 (*) | Bovine spongiform encephalopathy (BSE)   |
|       | 3 (*) | Chronic wasting disease  |
| 3 (*) |       | Creutzfeldt-Jakob disease  |
| 3 (*) |       | Gerstmann-Straussler-Scheinker syndrome  |
| 3 (*) |       | Kuru   |
|       | 3 (*) | Scrapie  |
|       | 3 (*) | Transmissible Mink encephalopathy  |
| 3 (*) |       | Variant Creutzfeldt-Jakob disease  |