

MINUTES OF THE 5th MEETING OF THE ICTV
STRASBOURG, 4 AUGUST 1981

5/1 - NUMBER OF MEMBERS PRESENT 37 (some members arrived late)

5/2 - CHANGES IN THE *RULES*.

The following changes in the rules, proposed by the Executive, Committee in London 1980, were approved with slight modifications.

OLD RULES

Rule 11 - For pragmatic purposes the species is considered to be a collection of viruses with like characters.

Rule 12 - Numbers, letters, or combinations thereof may be accepted in constructing the names of species.

Rule 13 - These symbols may be preceded by an agreed abbreviation of the Latinized name of a selected host genus; or, if necessary, by the full name.

Rule 14 - The genus is a group of species sharing certain common characters.

Rule 15 - The ending of the name of a viral genus is "... virus".

Rule 16 - A family is a group of genera with common characters, and the ending of the name of a viral family is "...viridae".

NEW RULES

Rule 11 - "A virus species is a concept that will normally be represented by cluster strains from a variety of sources, or a population of strains from a particular source, which have in common a set or pattern of correlating stable properties that separates the cluster from other clusters of strains".

Rule 12 - The genus name and species epithet together with the strain designation must give an unambiguous identification of the virus,

Rule 13 - The species epithet must follow the genus name and be placed before the designation of strain, variant or serotype.

Rule 14 - A species epithet should consist of a single word, or if essential a hyphenated word. The word may be followed by numbers or letters.

Rule 15 - Numbers, letters, or combinations thereof may be used as an official species epithet where such numbers or letters already have wide usage for a particular virus.

Rule 16 - Newly designated serial numbers letters or combinations thereof are not acceptable alone as species epithets.

Rule 17 - Artificially created laboratory hybrids between different viruses will not be given taxonomic consideration.

Rule 18 - The approval by I.C.T.V. of newly proposed species, species names and type species will proceed in two stages. In the first stage provisional approval may be given. Provisionally approved proposals will be published in an I.C.T.V. report. In the second stage, after a three year waiting period, the proposals may receive the definitive approval of I.C.T.V

Rule 19 - (same as old rule 14)

Rule 20 - (same as old rule 15)

Rule 21 - (same as old rule 16)

Rule 22 - Approval of a new family must be linked to approval of a type-genus; approval of a new genus must be linked to approval of a type-species.

5/3 - FROM THE COORDINATION SUBCOMMITTEE

The following new taxonomic proposals were ratified.

Taxonomic proposal no.1

To establish a new family of invertebrate small RNA viruses (divided genome ssRNA viruses).

The family consists of a single group containing members that infect invertebrates.

Taxonomic proposal no. 2

To name the family of divided genome ssRNA invertebrate small RNA viruses :
Nodaviridae.

(The prefix "Noda" is derived from Nodamura, the locality in Japan from which the first virus of this family was isolated).

Taxonomic proposal no. 3

To establish a type-genus for the family *Nodaviridae* containing Nodamura virus.

Taxonomic proposal no. 4

To name the type genus *Nodavirus*.

Taxonomic proposal no. 5

That the type species for the genus *Nodavirus* be *Nodamura* virus.

Taxonomic proposal no. 6

To establish a new family of invertebrate small RNA viruses (ssRNA viruses with T=4 symmetry). The family consists of a single genus containing members that infect invertebrates.

Taxonomic proposal no. 7

That the type genus for the proposed family be *Nudaurelia* β virus.

Taxonomic proposal no. 8

To accept Aleutian Mink Disease virus, and Lapine parvovirus, as members of the genus *Parvovirus*.

Taxonomic proposal no 9

That the name *Dependovirus* be approved for the genus of the helper virus-dependent parvoviruses which are known by the English vernacular name Adeno-associated viruses.

Taxonomic proposal no. 10

To reserve the genus name *Iridovirus* for the "small" iridescent viruses, 130 nm in diameter. These are the insect iridescent viruses 1,2, 6, 9, 10,16-29, probably *Chironomus* iridescent virus, and possibly *Octopus vulgaris* disease virus.

Taxonomic proposal no. 11

To establish the "large" (180 nm) iridescent insect viruses as a separate genus within the family *Iridoviridae* , This genus would include the insect iridescent viruses 3, 4, 5, 7, 8, 11, 12, 13, 14 and 15.

Taxonomic proposal no. 12

That the new genus consisting of the large 180 nm insect viruses be named *Chloriridovirus*.

Taxonomic proposal no. 13

That the type species for the proposed genus *Chloriridovirus* be mosquito iridescent virus (iridescent virus type 3), regular strain.

Taxonomic proposal no. 14

That frog virus 3 (FV 3) and similar amphibian viruses be considered a separate genus [in the family *Iridoviridae*].

Taxonomic proposal no. 15

That the genus encompassing FV 3 and related amphibian viruses be known as *Ranavirus*.

Taxonomic proposal no. 16

That frog virus 3 (FV 3) be the type species of the proposed genus *Ranavirus*.

Taxonomic proposal no. 17

That African swine fever virus (ASFV) be considered a separate genus [in the family *Iridoviridae*].

Taxonomic proposal no. 18

That African swine fever virus be the type species of the proposed genus.

Taxonomic proposal no. 19

That lymphocystis disease virus and other related viruses be considered a separate genus in the family *Iridoviridae*.

5/4 - FROM THE BACTERIAL VIRUS SUBCOMMITTEE

The following new taxonomic proposals were ratified.

Taxonomic proposal no. 20

That the genus including the PM2 phage group be named *Corticovirus*

Taxonomic proposal no. 21

That the genus including the $\phi 6$ phage group be named *Cystovirus*.

Taxonomic proposal no. 22

That the genus including the filamentous phage group be named *Inovirus*.

Taxonomic proposal no. 23

That the genus including the MS2 phage group be named *Levivirus*.

Taxonomic proposal no. 24

That the genus including the $\phi X174$ phage group be named *Microvirus*.

Taxonomic proposal no. 25

That the genus including the MV-L2 phage group be named *Plasmavirus*.

Taxonomic proposal no. 26

That the genus including the Mycoplasma virus type 1 phage group be named *Plectrovirus*.

Taxonomic proposal no. 27

That the genus including the PRD1 phage group be named *Tectivirus*.

Taxonomic proposal no. 28

That the family of bacterial viruses with contractile tails [T-even phages] be named *Myoviridae*.

Taxonomic proposal no. 29

That the family of bacterial viruses with short tails [T7 phage group] be named *Podoviridae*.

5/5 - FROM THE PLANT VIRUS SUBCOMMITTEE

The following new taxonomic proposals were ratified.

Taxonomic proposal no. 30

To name the Southern bean mosaic virus group the *Sobemovirus* group.

Taxonomic proposal no. 31

To establish a new group of viruses infecting plants to include viruses with bipartite ssRNA genomes encapsidated in isometric particles sedimenting as a single component.

Taxonomic proposal no. 32

To name the group established in proposal no. 31 the *Dianthovirus* group.

Taxonomic proposal no. 33

That the type member of the proposed *Dianthovirus* group be carnation ringspot virus.

5/6 - FROM THE VERTEBRATE VIRUS SUBCOMMITTEE

The following new taxonomic proposals were ratified.

Taxonomic proposal no. 34

Definition of virus species for the family *Adenoviridae*.

A species (formerly type) is defined on the basis of its immunological distinctiveness, as determined by quantitative neutralization with animal antisera. A species has either no cross-reaction with others or shows a homologous-to-heterologous titer ratio of >16 in both directions. If neutralization shows a certain degree of cross-reaction between 2 viruses in either or both directions (homologous-to-heterologous titer ratio of 8 to 16) distinctiveness of species is assumed if :

- a) the hemagglutinins are unrelated as shown by lack of crossreaction in hemagglutination-inhibition ; or
- b) substantial biophysical/biochemical differences of the DNAs exist.

Taxonomic proposal no. 35

To adopt the species names for adenoviruses as listed in the following table.

HOSTS		VIRUS GENUS	VIRUS SPECIES NAMES
English name	Zoological name		
man	<i>Homo sapiens</i>	Mastadenovirus	h1 - h34
cattle	<i>Bos taurus</i>		bos1 - bos9
pig	<i>Sus domesticus</i>		sus1 - sus4
sheep	<i>Ovis aries</i>		ovi1 - ovi5
horse	<i>Equus caballus</i>		equ1
dog	<i>Canis familiaris</i>		can1
goat	<i>Capra hircus</i>		cap1
mouse	<i>mus muscuzus</i>		mus1
fowl	<i>Gallus domesticus</i>	Aviadenovirus	gal1 - ga19
turkey	<i>Meleagris gallopavo</i>		me11 - me12
goose	<i>Anser domesticus</i>		ans1
pheasant	<i>Phasianus coZchicus</i>		pha1
duck	<i>Anas domestica</i>		ana1

This proposal was adopted by 29 votes for, none against and 7 abstentions.

[N.B. The EC minutes and subsequent publications show that these species names were considered provisional pending a final decision in 1984 – by which time it had been decided not to implement them]

Taxonomic proposal no. 36

That human adenoviruses be subdivided by their biophysical, biochemical, biological, and immunological characteristics into 5 subgenera (see attachment C).

[attachment C not present and the status of these subgenera is unclear – they do not appear in later publications]

Taxonomic proposal no. 37

That the caliciviruses be excluded from the family *Picornaviridae* and that a new family, *Caliciviridae* be established, comprising a single genus, *Calicivirus*.

Taxonomic proposal no. 38

That the type species of the genus *Calicivirus* be: Vesicular exanthema of swine virus, type A

Taxonomic proposal no. 39

To recognise the members of the *Calicivirus* genus as follows

- San Miguel sea lion virus
- Feline calicivirus
- Possible member : human calicivirus.

Taxonomic proposal no. 40

To form a genus containing Nairobi sheep disease and related viruses in the family *Bunyaviridae*.

Taxonomic proposal no. 41

To name the genus established by proposal no. 40, the *Nairovirus* genus.

Taxonomic proposal no. 42

That the type species of the *Nairovirus* genus be Crimean-Congo haemorrhagic fever virus.

Taxonomic proposal no. 43

To recognise the members of the *Nairovirus* genus as follows

Serogroup :-*Crimean-Congo haemorrhagic fever*

Species Crimean-Congo haemorrhagic fever virus Hazara

- *Nairobi sheep disease*
Nairobi sheep disease, variet; Ganjam Dugbe.

- *Dera Ghazi Khan*
Dera Ghazi Khan
Abu Hammad
Abu Minah
Kao Shuan
Pathum Thani
Pretoria
- *Qalyub*
Qalyub
Bandia
- *Hughes*
Hughes Soldado Punta Salinas Zirqa
- *Unassigned*
Dhori.

Taxonomic proposal no. 44

To form a new genus in the family *Bunyaviridae*, comprising Sandfly fever Sicilian virus and related viruses.

Taxonomic proposal no. 45

To name the genus established by proposal no. 44 the *Phlebovirus* genus.

Taxonomic proposal no. 46

That the type species of the *Phlebovirus* genus be Sandfly Sicilian (SFS) virus.

Taxonomic proposal no. 47

That the recognised members of the *Phlebovirus* genus be Serogroup :
Phlebotomus fever

Species Sandfly fever Sicilian
Aguacate
Alenquer
Anhanga
Arumowot
Buenaventura
Bujaru
Cacao

Caimito
Candiru
Chagres
Chilibre
Frijoles
Gabek Forest
Gordil
I-47
Icoaraci b
ISS.Ph1 3
Itaituba
Itaporanga
Karimibad
Nique
Pacul
Punta Toro
Rift Valley Fever
Rio Grande
Saint Floris
Salehabad
Sandfly fever Naples
Urucuri.

Taxonomic proposal no. 48

That a new genus be formed in the family *Bunyaviridae* to comprise Uukuniemi virus and related viruses.

Taxonomic proposal no. 49

To name the genus established by proposal no. 48 the *Uukuvirus* genus.

Taxonomic proposal no. 50

That the type species of the *Uukuvirus* genus be Uukuniemi (UUK) virus.

Taxonomic proposal no. 51

That the recognised members of the *Uukuvirus* genus be

Serogroup	<i>Uukuniemi</i>
Species	Uukuniemi Grand Arbaud Manawa Oceanside Ponteves Zaliv-Terpeniya EgAn 1825-61.

5/7 - ELECTION OF OFFICERS AND COMMITTEE MEMBERS.

According to the proposals of the Executive Committee, the following were elected unanimously

- President : F. BROWN
- Vice President : J.P.H. van der WANT

- Committee members

T.H. GRAF	Federal Republic of Germany
D.C. KELLY	U.K.
M.B. KOROLEV	U.S.S.R,
S. MATSUMOTO	Japan
J.A. MAYO	U.S.A.
A.F. MURANT	U.K.

One position for an elected member remains to be filled.

- Life member :

Prof. R.E.F. MATTHEWS was elected a life member unanimously by acclamation.