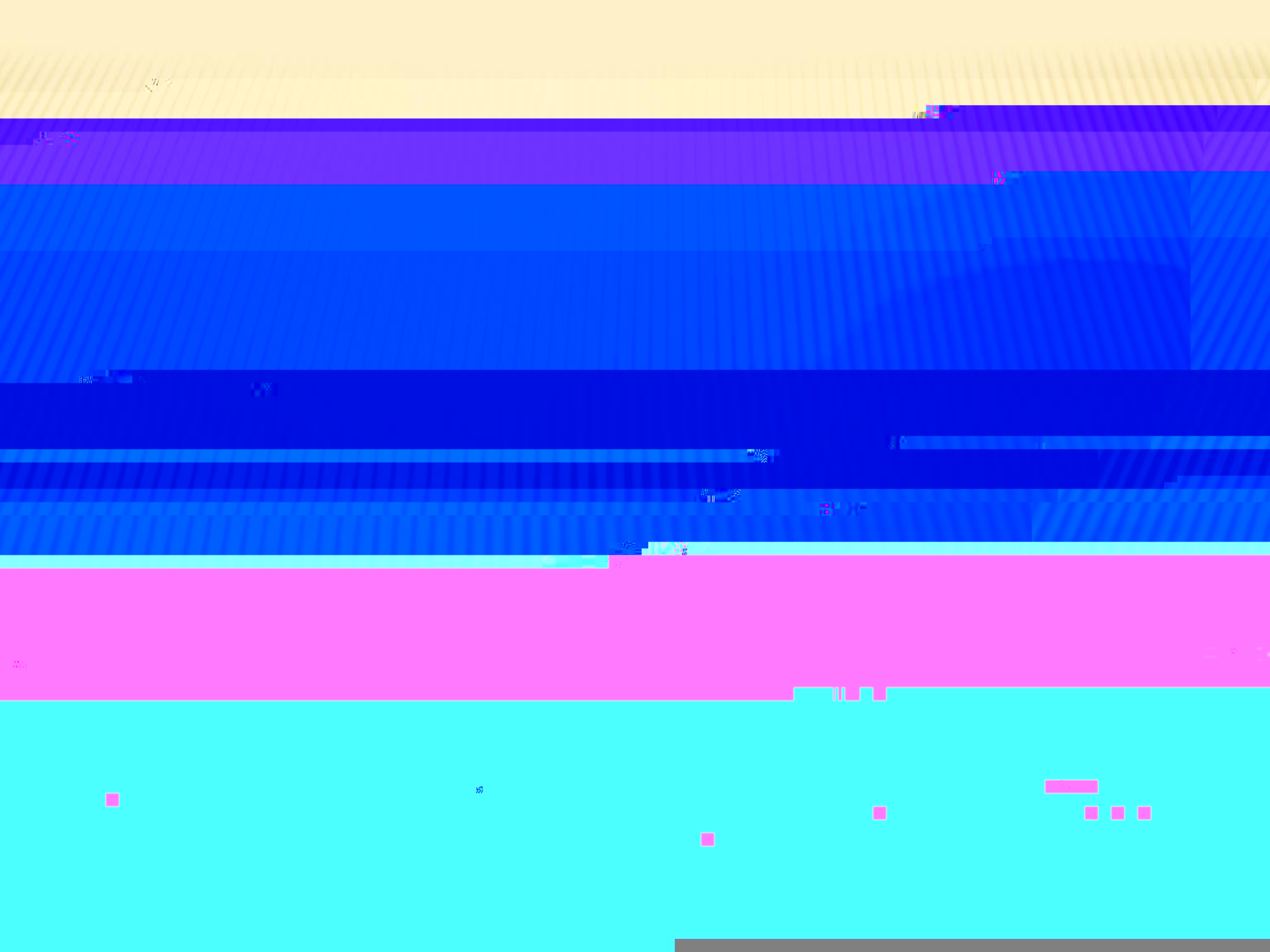


Ana Priscila Perini, MD, PhD
Researcher @ USP - Brazil

University of Sao Paulo
priscila.perini@usp.br



The research results have been presented at conferences



"Prevalence of serotypes of coxsackievirus B (1-6) in clinical samples sent to Fleury Diagnostic Center
Medicia"

Araújo, P; Perini A. P.; Benfica, D.; Leser, P.G.; Granato, C.

XII Encontro Científico Fleury | São Paulo

Agosto/2002

37º Congresso Brasileiro de Patologia Clínica | Medicina Laboratorial - São Paulo | SP (Set/2002).

"COMPARISON AMONG DIFFERENT CELL LINES (HELA-I, HEP-2, NCI-H292) FOR ISOLATION OF HRSV IN
CLINICAL SAMPLES"

Perini, A. P.; Barbosa, M. L.; Takahashi, V. N. van O.; Kuroda, C. K.; Moraes, C. T. P.; Gomes, M. C. S.; Vieira, S. E.; Gilio, A. E.; Lopes, J. M.; Stewien, K. E. & Durigon, E. L.

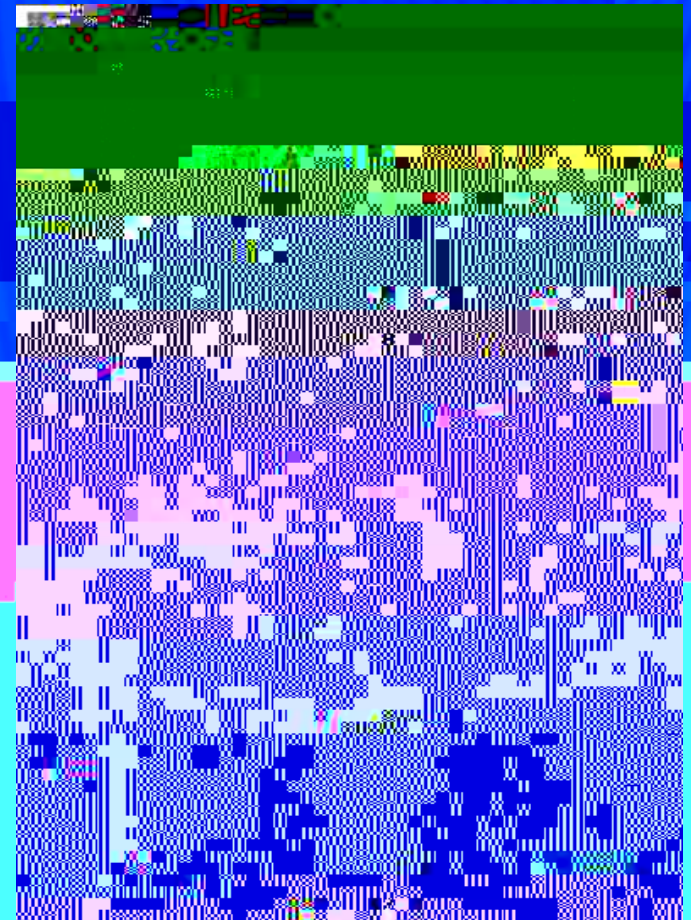
11th National Meeting of Virology and 3rd Mercosul Meeting of Virology | São Lourenço - 11th NainT1 0 0 1053

Genetic diversity of Parainfluenza Virus 1, 2 and 3 identified in samples collected at the University Hospital of the University of São Paulo, during the years 1995-2005.

Importance

Second leading cause of bronchiolitis and pneumonia in infants during the first year of life

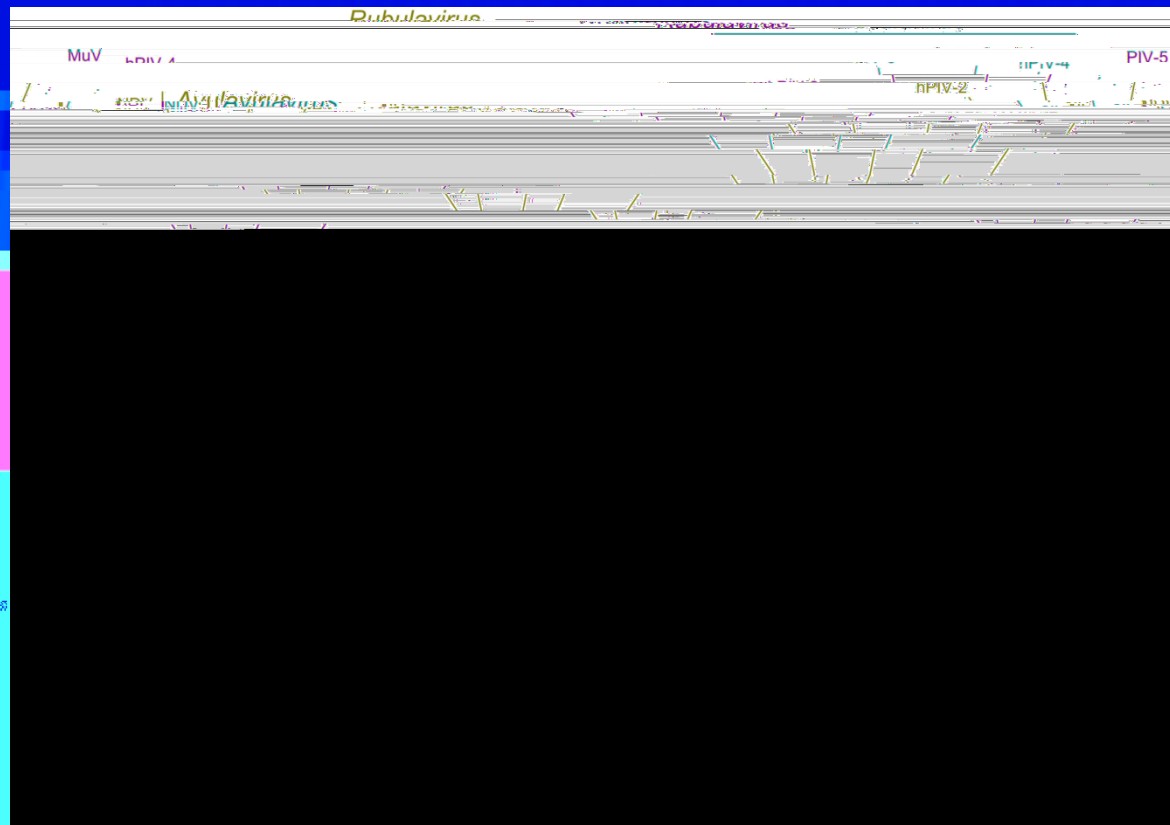
High rate of hospitalization and morbidity in infants less than 1 year

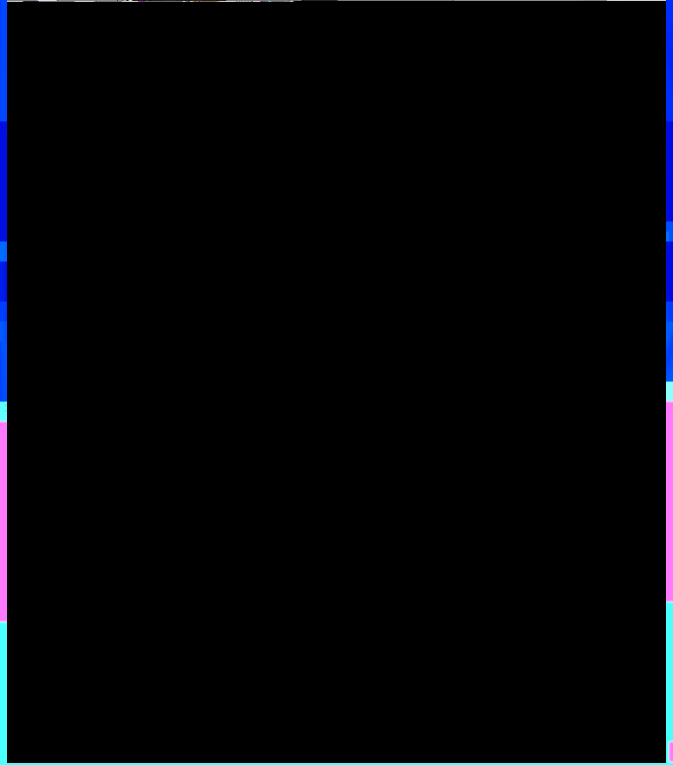
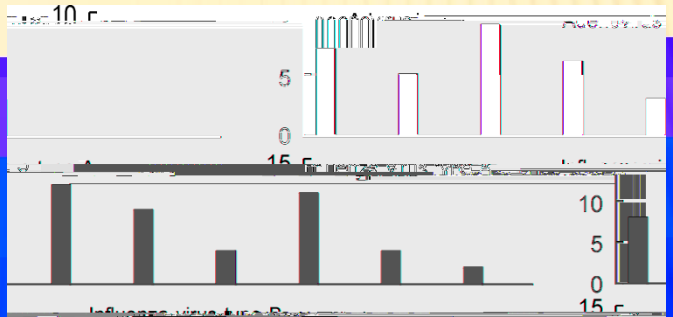
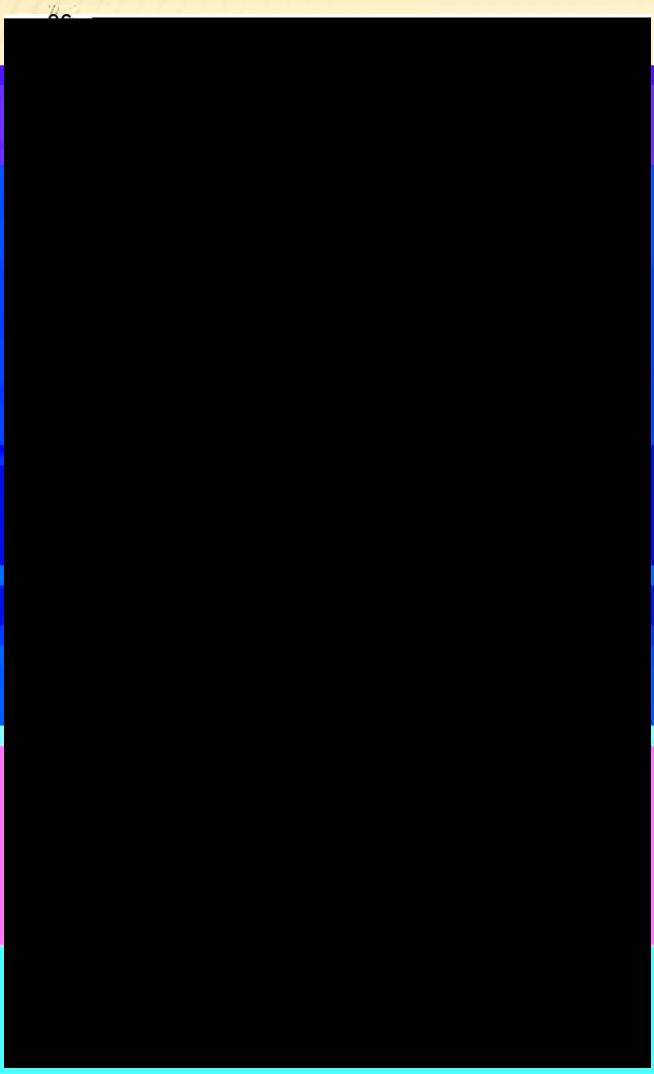


Overview

First report 1956 by Chanock et al.

Actually belongs to *genus Repirovirus* (hPIV-1 and hPIV-3) and *Rubulavirus* (hPIV-2 and hPIV-4)





We analyzed 2152 samples of collection of the Institute of Biomedical Sciences, USP, obtained between the years 1995 to 2005 from children attending the nursery or children's ICU of the University Hospital of USP.

This work was approved by the Ethics Committee on Research with Human Beings of ICB-USP (Opinion 808 / CEP).

Transmission

Person to person and contaminated objects

Stability of the viral particle in fomites: 4h - 10h

Incubation period of 2 to 8 days



Diagnostic

- Throat swabs or nasopharyngeal and nasal aspirates + washed
- Isolation in cell culture (LLC-MK2, Vero, HeLa cells, and Hep-2)
- RT-PCR
- real time pcr
- Antigen detection by IFA

Prevention and treatment

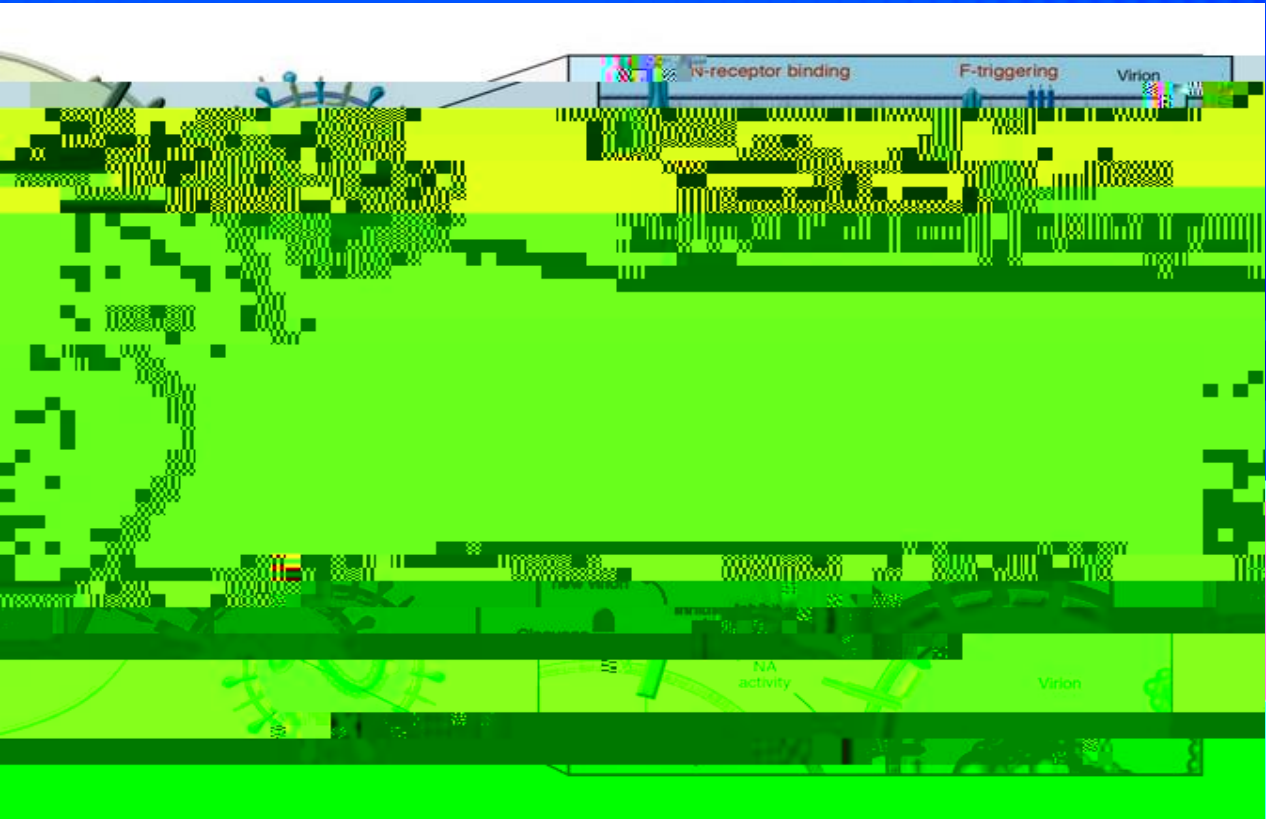
There are currently no fully effective antiviral, and its only applied support treatment

Antivirals tested:

Ribavirin: only displays in vitro activity against HPIVs

Zanamivir: only interfere in the binding of HN to the receiver, acting in the late functions of HN

Promising drugs BCX2798 e BCX2855 (Moscona, 2005)



The Brazilian sample of HPIV-2 showed 31 changes to the 485 nucleotide fragment assessed against the prototype strain isolated in 1955 of which 74.1% were non-silent mutations.

The Brazilian sample of HPIV-2 showed 31 changes in the 485 nucleotide fragment analyzed when compared with the prototype strain isolated in 1955. 74.1% of which were non-silent mutations.

The epidemiology of HPIV-2

Some changes in the HPIV-3 and HPIV-2 occurred in regions that are conserved between viruses belonging to the family Paramyxoviridae - NRKSCS region (positions 254 of HPIV-3 and 262 of the HPIV-2 region) , with the main highlight of replacing the conserved lysine, where important role of antigenic and HN protein changes are reported.

Two important changes in predictive of sites of N-glicosilation, an addition and a loss were verified.

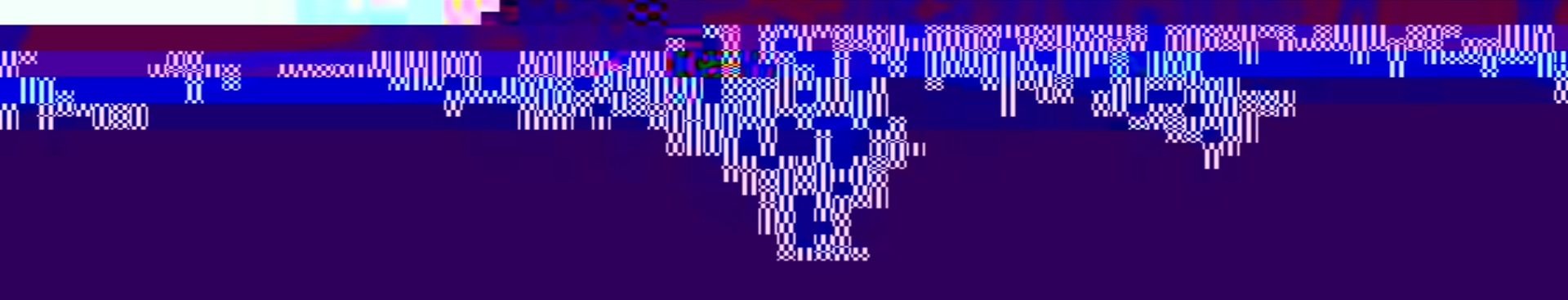
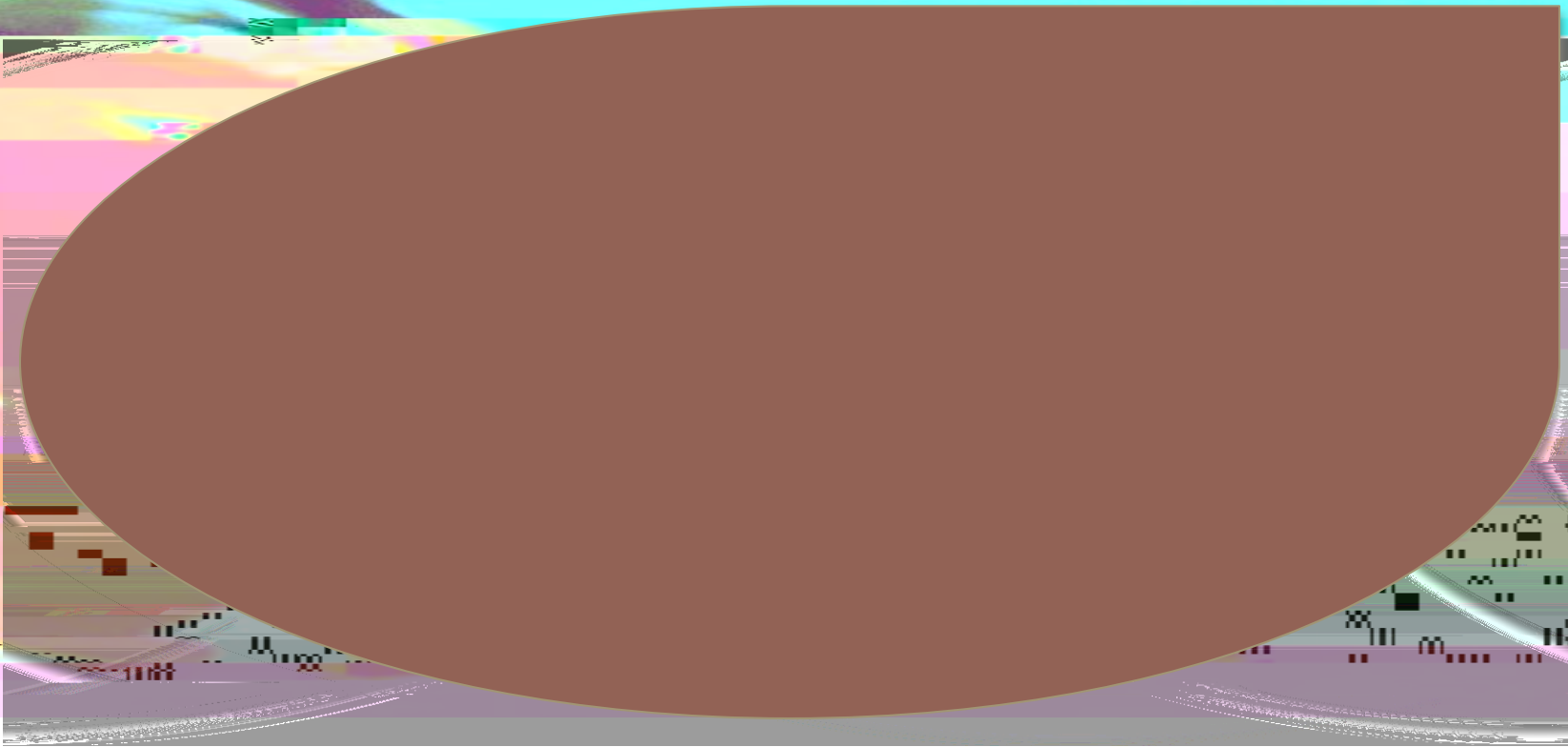


Journal of Infectious Diseases and Therapy

2nd International Congress on
Bacteriology and Infectious Diseases
3rd International Conference on Clinical
Microbiology & Microbial Genomics



OMICS Group Open Access Membership



OMICS Group welcomes submissions that are original and technically so as to serve both the developing world and developed countries in the best possible way.

OMICS Journals are poised in excellence by publishing high quality research. OMICS Group follows an Editorial Manager® System peer review process and boasts of a strong and active editorial board.

Editors and reviewers are experts in their field and provide anonymous, unbiased and detailed reviews of all submissions. The journal gives the options of multiple language translations for all the articles and all archived articles are available in HTML, XML, PDF and audio formats. Also, all the published articles are archived in repositories and indexing services like DOAJ, CAS, Google Scholar, Scientific Commons, Index Copernicus, EBSCO, HINARI and GALE.