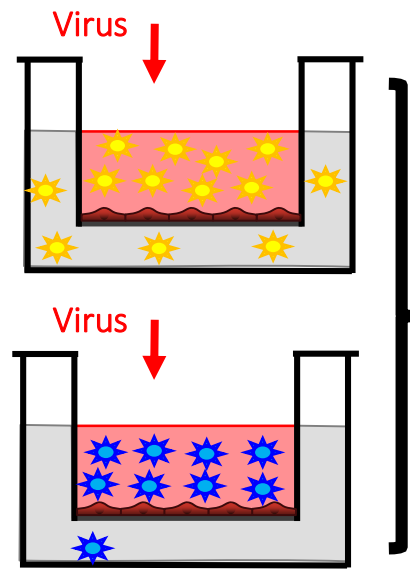
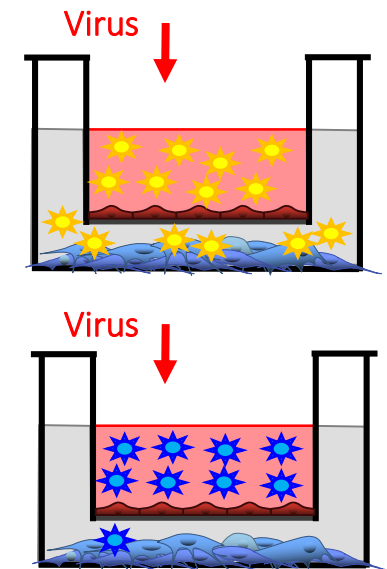


FNV contains more neuroinvasive virions than 17D
Virion crossing modifies BBB transcriptome
(BBB model)



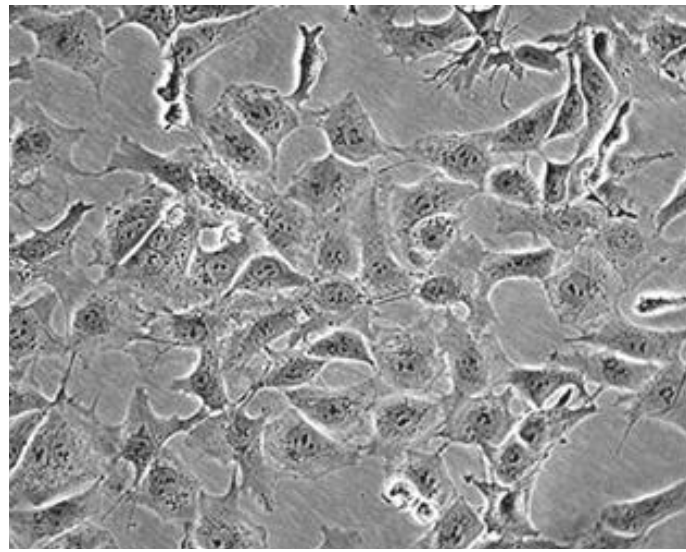
Low BBB crossing by some FNV virions
 Very low BBB crossing by some 17D virions
 Transcriptomic analysis of the hCMEC/D3
 after virions crossing

Neuroinvasive FNV virions are highly neurotropic
Neurotropism correlates to a specific molecular signature
(BBB-Minibrain model)



Low BBB crossing by some FNV virions
 Very low BBB crossing by some 17D virions
 Multiplication of the virions in Minibrain cells
 Transcriptomic analysis of Minibrain cells infected by
 neuroinvasive virions

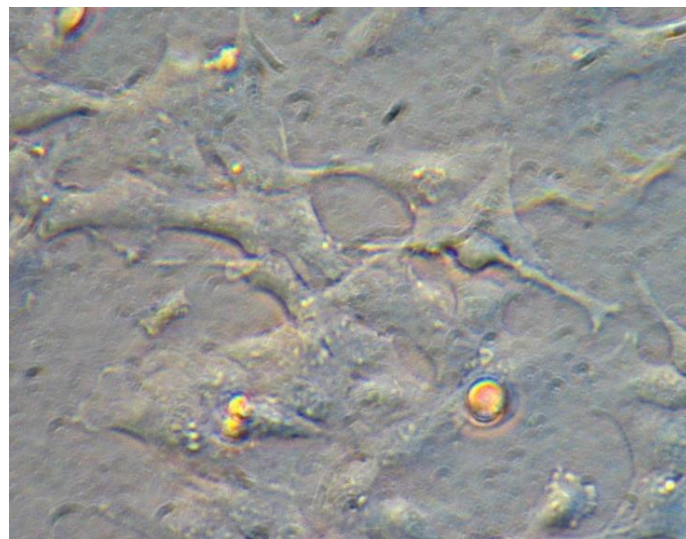
★ YFV-FNV
 ★ YFV-17D
 Endothelial cells (hCMEC/D3)
 Minibrain (neurons-astrocytes-microglia)

A

Ntera-2c1D/1
(undifferentiated
cells)

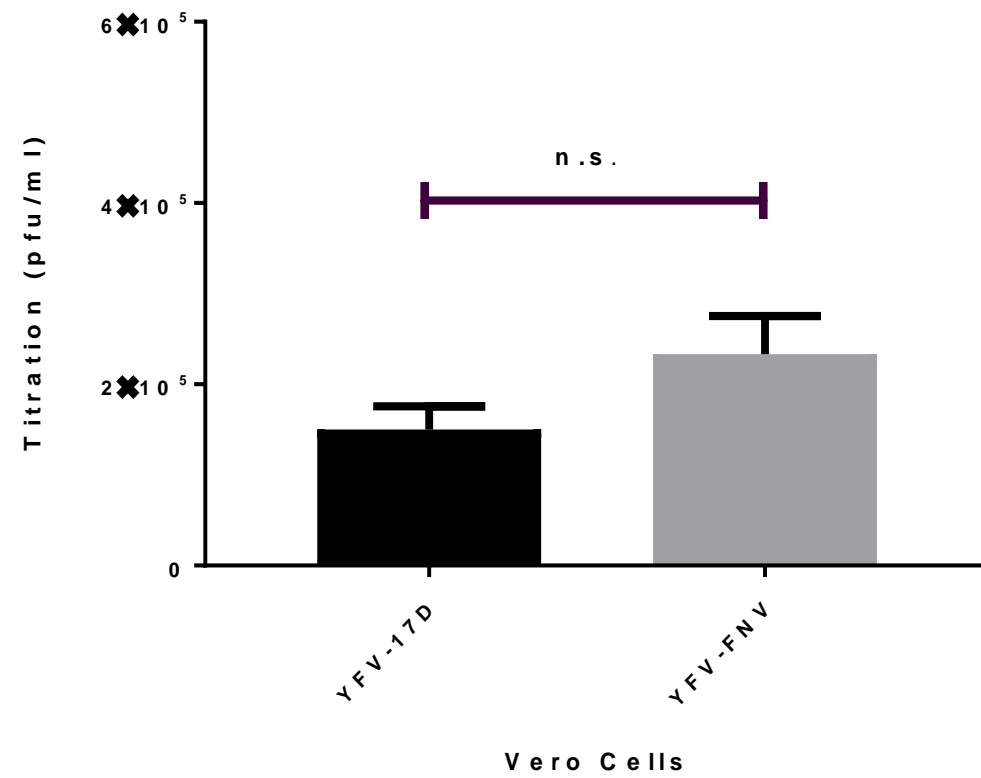


NT2-N/A
(Neurons + Astrocytes)



CHME cells
(Microglia)

(phase contrast microscopy)

B**C**