3D Normal Human Neural Progenitor Tissue-Like Assemblies: A Model of Persistent VZV Infection

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1. neural progenitor
2. primitive neural stem cell
3. neuronal precursor
4. neural stem cell
5. neuronal progenitor
6. early progenitor maturation
7. fully differentiated neuron
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Glucose consumption (mg/dL/hr)

- NHNP
- MeWo

VZV infection

Passage

Relative ORF63 copies (GAPDH)

- dORF63 #1
- dORF63 #2
- tORF63 #1
- tORF63 #2

Relative mRNA levels (GAPDH)

- tORF9 #1
- tORF9 #2
- tORF40 #1
- tORF40 #2

Days post infection

Days in culture

Cell free virus
• Rearrangement recombination is frequent in MeWo cell
• Rearrangement recombination is absent in NHNP-TLA
• Both ORF63 and ORF70 are expressed in NHNP-TLA
• VZV-infected NHNP-TLA are stable for months

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