Targeting Anti-Viral Antibody to CNS and Other Immuno-Privileged Tissues

OCR Number: OCR 6953

Description:

Circulating CD4 T-cells provide antibody access to the Immuno-privileged tissues

- In a mouse model of genital herpes infection, circulating CD4 memory T cells targeted antibody delivery to the neuronal sites of infection through secretion of interferon-gamma.
- Antibody therapy or vaccine against neurotropic viruses would benefit from generating robust circulating CD4 T cell memory responses first.
- Any biologics that require access of antibody or recombinant protein to immuno-privileged tissues would require prior activation of the tissue with IFN-γ, TNF, or other cytokines that increases vascular permeability (for example, antibody-based treatment of brain cancers).
- **IP status:** US patent application pending

PI: Akiko Iwasaki

**Licensing Contact:** Hong Peng
hong.peng@yale.edu