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NOVEL CELL PENETRATING PEPTIDE FOR DELIVERY TO THE BRAIN

TECHNOLOGY DESCRIPTION

Buck investigators have developed a Zika virus-based peptide for penetrating the blood-brain barrier. This cell penetrating peptide can function as a delivery mechanism to transport proteins, peptides, nucleic acids (DNA, RNA, ssDNA, antisense oligonucliotides), organic compounds, and as a potential serotype for coating other viruses and nanoparticles. This technology has been validated in a mouse model. This presents an exciting opportunity to develop a novel therapeutic with a potential to treat neurodegenerative disease, as well as other diseases of the brain.

APPLICATIONS

- Drug therapy for treatment of neurodevelopmental and neurodegenerative diseases, such as Alzheimer's Disease, Parkinson's Disease, ALS, Huntington's disease, and others.
- Drug therapy for treatment of certain brain tumors and cancers of the brain.
- Drug therapy for targeting multiple organs with a single construct.

PATENT STATUS

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