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(54) Title: TARGETING PEPTIDES FOR DIRECTING ADENO-ASSOCIATED VIRUSES (AAVs)

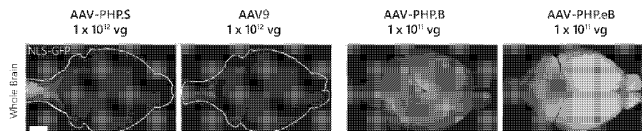


FIG. 23A

(57) Abstract: Disclosed herein are peptide sequences capable of directing adeno-associated viruses (AAV) to target specific environments, for example the nervous system and the heart, in a subject. Also disclosed are AAVs having non-naturally occurring capsid proteins comprising the disclosed peptide sequences, and methods of using the AAVs to treat diseases.