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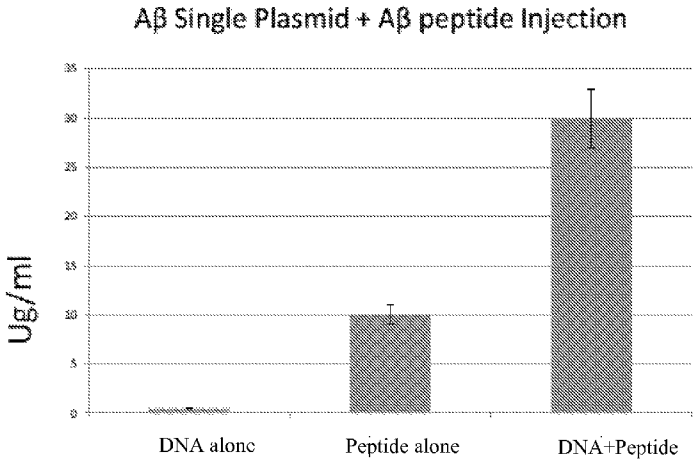


FIG. 5

(57) Abstract: The present invention includes a method for diagnosis and treatment and prevention of Alzheimer's Disease comprising obtaining a biological sample from a subject suspected of having Alzheimer's Disease; determining the level of expression of HSP 27, wherein a statistically significant increase in HSP27 protein expression in the sample as compared to a sample from a non-Alzheimer's patient is indicative that the subject has Alzheimer's Disease; and modifying the treatment of the subject as a result of the detection of Alzheimer's Disease by providing the subject with standard therapy or a single vector expressing an Aβ42 trimer peptide and optionally the addition of an Aβ42 peptide, which elicits an immune reaction against the Aβ42 peptide, thereby preventing the accumulation of Aβ42 peptide and therefore preventing or treating Alzheimer's Disease.

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