

Nurr1 as a Genetic Target for Treating Levodopa-induced Dyskinesias (LIDs) in Parkinson's Disease

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Technology description

Executive Summary

Patients afflicted with Parkinson's disease often develop severely debilitating movement disorders as side effects from currently available treatment options. Researchers at MSU propose to use a new gene therapy approach that will both reduce these side effects and prolong the effectiveness of treatment by targeted gene silencing.

Description of Technology

L-Dopa induced dyskinesia (LID) is a side effect of prolonged chronic use of L-Dopa medication. A hyper-expression of Nurr1 protein in affected brain areas might underlie these side effects. Local injection of vectors encoding target genes in affected striatum can directly prevent the hyper-expression allowing for potentially improved fine-tuned response for motor control.

Application area

Treatment of LID in patients with Parkinson's disease

Potentially useful in the treatment of other movement disorders

Advantages

Improved quality of life for Parkinson's patients

Improved and prolonged benefit for movement disorders

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