

**Technology:** [Promotion of brain self-repair mechanisms by stereotaxic micro-stimulation](#)

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**Location:** Tampa, FL

**Topic:** Therapeutic/CNS

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The VA has joint ownership with The University of South Florida, Tampa

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**Abstract:** A method of treating neurological deficit in which the brain area affected is focally and precisely stimulated by the transient insertion and subsequent removal of a micro-needle. This insertion and subsequent removal of the micro-needle induces endogenous stem cells to proliferate, migrate and promote the brain's self-repair mechanisms. The micro-needle stimulation causes the birth of new neural cells within the brain as well as mobilizes bone marrow derived cells with a neuronal phenotype to migrate to the site of stimulation to repair and replace damaged neural cells. By repairing and/or replacing injured or dead cells, this approach will slow down the degenerative course of the disease and may result in reversal of symptoms.