



Principal Investigator

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Adopted Theme

Development and Commercialization of a Transcranial Magnetic Stimulation Coil with the World's Deepest Electric Field Penetration for Depression Treatment

Subject of Research

Development and Commercialization of a Transcranial Magnetic Stimulation Coil with the World's Deepest Electric Field Penetration for Depression Treatment

GTIE VC Collective

BD Fund

Overview

We develop and commercialize a transcranial magnetic stimulation (TMS) system targeting psychiatrists providing repetitive TMS (rTMS) therapy in the United States. Our system enables both deep brain stimulation and flexible treatment settings, including in-clinic and at-home use, for the treatment of depression. To achieve this, we utilize a coil technology based on inverse problem analysis to realize effective deep stimulation, while developing a cost-efficient TMS system with the goal of expanding into the global market.

Business Models (when applying)

This project aims to establish a Japan-based medical device startup centered on deep transcranial magnetic stimulation (deep TMS) coil technology, providing a new therapeutic option for neurological and psychiatric disorders that are not adequately treated by existing therapies. Research and development up to the preclinical stage will be conducted in Japan to leverage cost efficiency, while clinical development and commercialization will focus on the U.S. market. The ultimate exit strategy targets the global medical device market, including partnerships or acquisitions by international medical device companies.

Activity Planning (when applying)



We will conduct first-in-human studies of our deep transcranial magnetic stimulation (deep TMS) coil and validate clinical needs to demonstrate its potential for real-world application. In parallel, we will develop an intellectual property strategy, establish clinical partnerships, and build the organizational and financial foundations necessary for fundraising and business execution, with the goal of launching a startup.