Neural mapping using transcranial magnetic temporal interference stimulation

SUMMARY

Deep brain stimulation has provided dramatic benefit for a variety of clinical conditions. However, current non-invasive technology allows only superficial stimulation of the brain. The only possible ways of reaching deeper brain regions require invasive approaches. This project aims at developing a medical device that enables non-invasive stimulation of deep brain areas at millimeter precision to enable the treatment of neurological and psychiatric disorders such as depression or OCD.

PROJECT GOALS

- Develop and build prototype
- In vivo testing
- Preparation for CE certification

LONG-TERM GOALS

- Phase I clinical study
- Implementation of the solution in the clinical workflow by licensing to Medtech company or startup foundation.

MedTech
NeuroCure