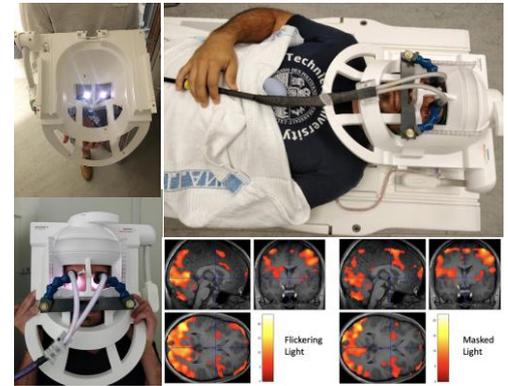
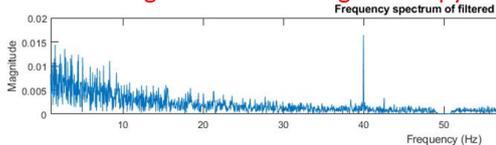


# Slowing The Progression of Alzheimers

- Using non-invasive masked 40 Hz light therapy



Visual Cortex stimulation observed with EEG during 40 Hz masked light therapy



Similar response of areas around the hippocampus with Masked Light Vs Flickering Light, tested with fMRI



## Value Proposition/USP

We develop medical light that can restore the neuronal activity of Alzheimer's patients and reduce plaque accumulation, and thus treating Alzheimer's. The technology is based on known gamma light therapy research, but combines the light in a new way that the flickering is non-perceptible and thus not hindering vision or causing discomfort.

## Business Opportunity/Objective/Commercial Perspectives

The target users for the 40 Hz masked light are primarily people at risk of AD (related to age or hereditary disease), and AD patients suffering from mild cognitive impairment (MCI). The secondary users are those suffering from severe cognitive impairment as well as the staff responsible for applying the treatment; at institutions like nursing homes, hospitals and treatment centres.

## Technology Description/Technology Summary

Our technology utilizes a number of LED light sources to create a masked 40Hz flashing light effect that obtains the same beneficial effects of treatment, but minimizes the side effects created by the blinking light. Our solution has been implemented into a desktop lamp, and has many possible applications that enables patients to get treatment in their homes or institutions, by integrating the light into the patients everyday light sources.

## Development Phase/Current State

TRL 3 – Experimental Proof of Concept. We have build a prototype shown to 10+ clinicians and 2 KOL in Denmark and US, who all have validated the need for a solution for Alzheimers Disease, as well as shown initial confidence in a medical light solution. The prototype has shown positive pilot EEG and fMRi tests done by DTU Photonics and OptoCeutics.

## The inventors (among others)

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## Seeking

- Specialized counselling for our product and technology (electrical, optical, mechanical aspects)
- Lab inspection and measuring of current and future prototypes & products