



PHOTOTHERAPORT

LUMINESCENT IMPLANTS AS PORTS FOR LIGHT-BASED THERAPIES

Light controlled drugs to modulate neuronal activity locally and on-demand without systemic adverse effects

PHOTOTHERAPORT Project combines locally light-emitting implants (phototheraports) with light-controlled drugs

PHOTOTHERAPORTS

Phototheraports are tiny devices that act as light sources within the body. These implants, when receiving infrared light (invisible and non-invasive) from outside the body, emit light in the visible spectrum, which will activate the photoswitchable drugs.



LIGHT-CONTROLLED DRUGS

Photoswitchable drugs with anti-inflammatory and neuroinhibitory activity become active inside the body only when exposed to a specific color of light emitted by a phototheraport.



PHOTOTHERAPORT innovative photopharmacological approach opens up new possibilities for reducing pain and epileptic seizures in localized regions of the nervous system.

<https://phototheraport.org>