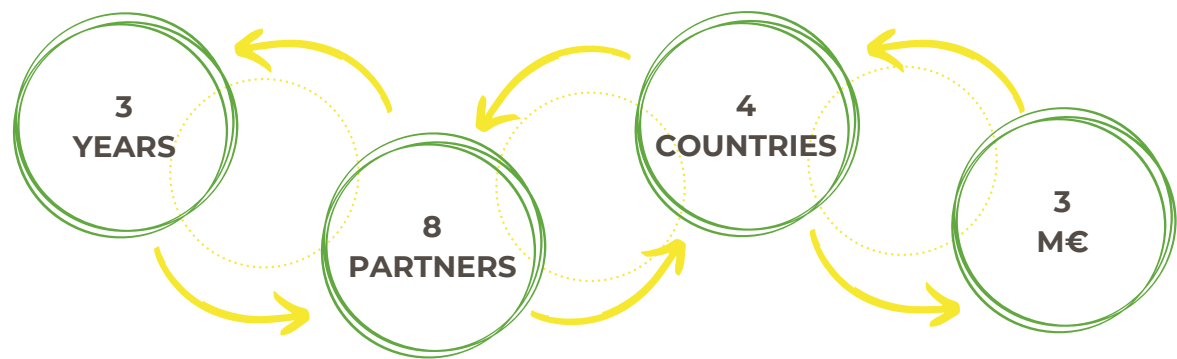




# PHOTOTHERAPORT

LUMINESCENT IMPLANTS AS PORTS FOR LIGHT-BASED THERAPIES

The PHOTOTHERAPORT project is at the forefront of medical innovation, exploring new frontiers in the treatment of neurological and inflammatory conditions.



We use light to create effective clinical anti-inflammatory and neurological treatments with precise spatiotemporal and pharmacological activity



How does our photopharmacology approach works?

By combining locally light-emitting implants (PhotoTheraPorts) with light-controlled drugs to offer precise and personalized therapeutic solutions

<https://phototheraport.org>



This project has received funding from the European Union's HORIZON-EIC-2023 PATHFINDEROPEN-01 program under grant agreement No. 101130883



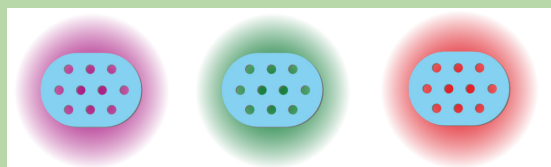
Funded by the European Union

# PHOTOTHERAPORT

LUMINESCENT IMPLANTS AS PORTS FOR LIGHT-BASED THERAPIES

## PHOTOTHERAPORTS

Our light implants are tiny devices that act as light sources within the body. These implants, guided by nanocrystals, **emit light in the visible spectrum only when exposed to non-invasive infrared light** from outside our body, thus non-invasively.



## LIGHT-CONTROLLED DRUGS

We are developing photosensitive drugs that are only activated when exposed to specific visible light.. **In our system, the light emitted by the PhotoTheraPorts activates these drugs.**



**We will apply this technology to develop drugs that have anti-inflammatory and neuroinhibitive activities, so they will act as personalized light switches for the nervous system**

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