Vision Improvement through CATaracts by wavefront shaping

Fact Sheet

Project Information

VICAT

Grant agreement ID: 897300

Funded under
EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost
€ 160,932,48

EU contribution
€ 160,932,48

Coordinated by
UNIVERSIDAD DE MURCIA
Spain

DOI
10.3030/897300

Closed project

Start date
1 March 2021

End date
28 February 2023

Project description

Improving vision of people with cataracts

Cataracts impair people’s vision by blurring retinal images and reducing their contrast. The current treatment is cataract surgery, an invasive procedure which, although quite successful, may have side effects such as corneal edema, infection and retinal detachment. As a possible alternative, the EU-funded VICAT project proposes a non-invasive approach to improve vision of cataract patients. This approach is based on the manipulation of the light wavefront incident on the eye. This may be ultimately integrated into head-mounted devices. This project will lay the groundwork for effective practical vision correction for cataract patients.
Fields of science

medical and health sciences > clinical medicine > surgery
medical and health sciences > clinical medicine > ophthalmology
medical and health sciences > basic medicine > pathology

Keywords

scattering  wavefront shaping  cataracts

Programme(s)

H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions
H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility

Topic(s)

MSCA-IF-2019 - Individual Fellowships

Call for proposal

H2020-MSCA-IF-2019

See other projects for this call

Funding Scheme

MSCA-IF - Marie Skłodowska-Curie Individual Fellowships (IF)

Coordinator

UNIVERSIDAD DE MURCIA
Net EU contribution
€ 160 932,48
Address
Avenida teniente flomesta s/n - edificio convalecencia
30003 Murcia
Spain
Region
Sur > Región de Murcia > Murcia
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation  Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00
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European Union, 2023