Adaptive and personalized neuromotor rehabilitation of persons with Multiple Sclerosis: from characterization to exploitation of residual sensorimotor abilities using a body-machine interface

Fact Sheet

Project Information

REMAp
Grant agreement ID: 896892

DOI
10.3030/896892

Closed project

EC signature date
14 April 2020

Funded under
EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost
€ 171 473,28

EU contribution
€ 171 473,28

Coordinated by
UNIVERSITA DEGLI STUDI DI GENOVA
Italy

Start date
4 January 2021

End date
3 January 2023

This project is featured in...
Project description

Adaptive neuromotor rehabilitation of patients with multiple sclerosis

The goal of the EU-funded REMAp project is to create a novel approach to the neuromotor rehabilitation of patients with multiple sclerosis (MS) employing mechanisms of recovery based on body–machine interfaces (BMI). The idea is that during rehabilitative training the entire nervous system, from the periphery to the brain, goes through a reorganisation, and this can be exploited to design more effective interventions. Muscle and kinematic synergies will be used to develop an MS-specific functional evaluation tool to monitor the disease and the effects of treatment. Data will be applied to design a BMI using residual mobility and specific exercises to help MS patients reach full functional potential. The adaptive nature of BMI will benefit patients with different degrees of impairment.

Fields of science

natural sciences  >  biological sciences  >  neurobiology
medical and health sciences  >  clinical medicine  >  physiotherapy
medical and health sciences  >  basic medicine  >  neurology  >  multiple sclerosis

Keywords

Multiple Sclerosis  Rehabilitation  Motor recovery  Motor learning

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**

UNIVERSITA DEGLI STUDI DI GENOVA

Net EU contribution

€ 171 473,28

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Region

Nord-Ovest > Liguria > Genova

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding