Project details

**Total cost:**
- EUR 954 000

**EU contribution:**
- EUR 954 000

**Coordinated in:**
- Serbia

**Topic(s):**
- MSCA-RISE-2017 - Research and Innovation Staff Exchange

**Call for proposal:**
- H2020-MSCA-RISE-2017
- [See other projects for this call](#)

**Funding scheme:**
- MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

**Objective**

The project proposes to organize the exchange of staff of three academic institutions from Serbia (coordinator), Turkey and Finland, two SMEs from France and Turkey and three TC institutions (two from USA and one from Costa Rica) towards the production of an innovative automated multifunctional device for diagnostics of neurodegenerative diseases.

The objectives addressed will be:

- Development of experimental cellular models and procedures with immunoglobulins (IgGs) from patient sera as diagnostic and prognostic technologies related to neurodegenerative diseases (particularly based on studies of amyotrophic lateral sclerosis - ALS).
- Defining mark-up characteristics of the standardized in vitro approach for personalized diagnostic protocols.
- Design of a small-scale platform based on automated fluorescence microscopy.

These objectives are based on previous studies on ALS of the coordinators group, however the project also proposes to study the applications on other neuromuscular and neurodegenerative conditions. This addresses a relevant R & I as well as a socioeconomic medical issue. It is the right timing for addressing this research challenge towards application by means of networking that will deal with intersectorial and international exchange of expertise. In addition, three workshops and two training schools will be organized followed by an elaborate dissemination programme. Carrier plans will be designed for the seconded staff in order to maintain the sustainability of the Action.
**Coordinator**

FACULTY OF BIOLOGY OF THE UNIVERSITY OF BELGRADE  
STUDENTSKI TRG 3/2  
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Serbia

*Activity type:* Higher or Secondary Education Establishments

**Participants**

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Turkey

*Activity type:* Higher or Secondary Education Establishments

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Finland

*Activity type:* Higher or Secondary Education Establishments

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*Activity type:* Private for-profit entities (excluding Higher or Secondary Education Establishments)

ELVESYS SAS  
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75784 PARIS CEDEX 16  
France

*Activity type:* Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Partner organisations**
FUNDACION CENTRO DE ALTA TECNOLOGIA
1.3 KM NORTE DE LA EMBAJADA DE LOS ESTADOS UNIDOS EDIFICIO FRANKLIN CHAN
1174 1200 SAN JOSE
Costa Rica

**Activity type:** Research Organisations

Contact the organisation

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UNIVERSITY OF CONNECTICUT
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United States

**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

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THE UNIVERSITY OF CHICAGO
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Contact the organisation

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