

# Project of excellence in the field of neuroscience

<https://www.neurodegenerationresearch.eu/survey/project-of-excellence-in-the-field-of-neuroscience/>

## Principal Investigators

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## Contact information of lead PI

### Country

Czech Republic

## Title of project or programme

Project of excellence in the field of neuroscience

## Source of funding information

Czech Science Foundation

## Total sum awarded (Euro)

€ 3,274,407

## Start date of award

01/01/2012

## Total duration of award in years

7

## The project/programme is most relevant to:

Alzheimer's disease & other dementias

## Keywords

### Research Abstract

Neurodegenerative disorders are common in the aging population, but also in young adults, and have become a serious socio-economic problem. These etiologically heterogenous diseases lead to severe cognitive, motor and sensory deficiencies. The proposal aims to elucidate the pathophysiological mechanisms underlying the development of these diseases, from the genetic up to the system level. The project will enable creation of a network of high level scientific teams

and thus promote an inter-disciplinary approach that would otherwise not be feasible based on individual projects of any single partner. Using a broad battery of methods, the mechanisms involved in regulating gene expression, membrane receptor function, inter-cellular communication, extra-cellular space modulation, and glia function will be investigated. As the research will be aimed at understanding basic processes, the output will lead to innovative and effective treatments of the diseases, e.g. using neuroactive steroids, stem cells etc. The project will also provide a unique basis for PhD training in neuroscience.

### **Lay Summary**

**Further information available at:**

#### **Types:**

Investments > €500k

#### **Member States:**

Czech Republic

#### **Diseases:**

Alzheimer's disease & other dementias

#### **Years:**

2016

#### **Database Categories:**

N/A

#### **Database Tags:**

N/A