

# Imaging of Neuroinflammation in Neurodegenerative Diseases

<https://neurodegenerationresearch.eu/survey/imaging-of-neuroinflammation-in-neurodegenerative-diseases/>

## Principal Investigators

### Institution

### Contact information of lead PI

### Country

European Commission

## Title of project or programme

Imaging of Neuroinflammation in Neurodegenerative Diseases

## Source of funding information

European Commission FP7-Seventh Framework Programme

## Total sum awarded (Euro)

€ 11,998,478

## Start date of award

01/03/2012

## Total duration of award in years

5.0

## The project/programme is most relevant to:

Neurodegenerative disease in general

## Keywords

### Research Abstract

The goal of this proposal (INMiND) is to carry out collaborative research on molecular mechanisms that link neuroinflammation with neurodegeneration in order to identify novel biological targets for activated microglia, which may serve for both diagnostic and therapeutic purposes, and to translate this knowledge into the clinic. The general objectives of INMiND are:

- (i) to identify novel mechanisms of regulation and function of microglia under various conditions (inflammatory stimuli; neurodegenerative and -regenerative model systems);
- (ii) to identify and implement new targets for activated microglia, which may serve for diagnostic (imaging) and therapeutic purposes;
- (iii) to design new molecular probes (tracers) for these novel targets and to implement and validate them in in vivo model systems and patients;

(iv) to image and quantify modulated microglia activity in patients undergoing immune therapy for cognitive impairment and relate findings to clinical outcome.

Within INMiND we bring together a group of excellent scientists with a proven background in efficiently accomplishing common scientific goals (FP6 project DiMI, [www.dimi.eu](http://www.dimi.eu)), who belong to highly complementary fields of research (from genome-oriented to imaging scientists and clinicians), and who are dedicated to formulate novel image-guided therapeutic strategies for neuroinflammation related neurodegenerative diseases. The strength of this proposal is that, across Europe, it will coordinate research and training activities related to neuroinflammation, neurodegeneration/-regeneration and imaging with special emphasis on translating basic mechanisms into clinical applications that will provide health benefits for our aging population. With its intellectual excellence and its crucial mass the INMiND consortium will play a major role in the European Research Area and will gain European leadership in the creation of new image-guided therapy paradigms in patients with neurodegenerative diseases.

### **Lay Summary**

**Further information available at:**

#### **Types:**

Investments > €500k

#### **Member States:**

European Commission

#### **Diseases:**

Neurodegenerative disease in general

#### **Years:**

2016

#### **Database Categories:**

N/A

#### **Database Tags:**

N/A