ERC Advanced Grant 2016-2021

Project Title: The role of immune cells in Alzheimer's disease
Acronym: IMMUNOALZHEIMER
Project number: 695417

Principal Investigator: Gabriela Constantin
Host Institution: Università degli Studi di Verona
Alzheimer’s disease: the most common form of dementia and a global epidemic

There is no cure for the disease.

Image by D. Bredensen

37 million

2015

66 million

2030

115 million

2050
Alzheimer’s disease: a neurocentric view
Alzheimer’s disease: an integrated view: NEURAL + IMMUNE CELLS
Main goal: Characterization of immune cell-driven inflammation and cognitive decline in Alzheimer's disease

Zenaro et al., Nat. Med. 2015
Immune cell-driven inflammation and cognitive decline in Alzheimer's disease: INTRAVASCULAR PHENOMENA

Zenaro et al., Nat. Med. 2015
Immune cell-driven inflammation and cognitive decline in Alzheimer's disease: CELL-CELL CONTACTS
Main goal: Characterization of immune cell-driven inflammation and cognitive decline in Alzheimer's disease.
IMMUNOALZHEIMER: Immune cell infiltration in patients with Alzheimer’s disease
IMMUNOALZHEIMER: Immune cell infiltration in patients with Alzheimer’s disease

Control
Aβ MPO

Alzheimer
Aβ MPO
IMMUNOALZHEIMER: FINAL GOALS

1. Identify new disease mechanisms

2. Find novel therapeutic strategies