



Myelinic nanochannels in neurodegenerative diseases

Fact Sheet

Project Information

MyeliNANO

Grant agreement ID: 671048

[Project website](#)

DOI

[10.3030/671048](https://doi.org/10.3030/671048)

Project closed

EC signature date

9 November 2015

Start date

1 April 2016

End date

31 July 2021

Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

Total cost

€ 2 500 000,00

EU contribution

€ 2 500 000,00

Coordinated by

MAX-PLANCK-GESELLSCHAFT
ZUR FORDERUNG DER
WISSENSCHAFTEN EV
 Germany

Project description

Myelin: key player in neurodegeneration?

Neurons in the brain and spinal cord are insulated by a myelin sheath which can greatly increase the speed of electrical impulses. Myelin is produced by oligodendrocytes which seem to play a central role in neuron integrity by providing essential metabolites required for neuronal energy production. This suggests that oligodendrocytes could impact neurological disorders involving demyelination, such as multiple sclerosis. Funded by the European Research Council, the MyeliNANO project aims to investigate the role of myelin in higher brain functions and the extent to which oligodendrocytes impact functional integrity of neurons and

neurodegeneration. Results will pave the way for metabolic neuroprotection as a potential therapeutic strategy for neurodegenerative diseases.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [basic medicine](#) > [neurology](#) > [dementia](#) > [alzheimer](#)

[medical and health sciences](#) > [health sciences](#) > [inflammatory diseases](#)

[medical and health sciences](#) > [basic medicine](#) > [immunology](#) > [immunisation](#)

[medical and health sciences](#) > [basic medicine](#) > [neurology](#) > [multiple sclerosis](#)

[medical and health sciences](#) > [basic medicine](#) > [neurology](#) > [amyotrophic lateral sclerosis](#)



Programme(s)

[H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council \(ERC\)](#)

MAIN PROGRAMME

Topic(s)

[ERC-ADG-2014 - ERC Advanced Grant](#)

Call for proposal

[ERC-2014-ADG](#) 

[See other projects for this call](#)

Funding Scheme

[ERC-ADG - Advanced Grant](#)

Host institution



MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV

Net EU contribution

€ 2 500 000,00

Total cost

€ 2 500 000,00

Address

HOFGARTENSTRASSE 8

80539 Munchen

 **Germany** 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Beneficiaries (1)



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Last update: 5 April 2023

Permalink: <https://cordis.europa.eu/project/id/671048>

European Union, 2025

