

Synaptic circuit protection in AD and HD: BDNF/TrkB and Arc signaling as rescue factors

<https://neurodegenerationresearch.eu/survey/synaptic-circuit-protection-in-ad-and-hd-bdnftrkb-and-arc-signaling-as-rescue-factors/>

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Finland

Title of project or programme

Synaptic circuit protection in AD and HD: BDNF/TrkB and Arc signaling as rescue factors

Source of funding information

Academy of Finland

Total sum awarded (Euro)

€ 288,180

Start date of award

01/01/2016

Total duration of award in years

3.3

Keywords

Research Abstract

Synaptic plasticity control by brain-derived neurotrophic factor (BDNF) through TrkB receptor signaling is a fundamental characteristic of all neuronal networks in the brain. The major neurodegenerative disorders, Huntington´s disease and Alzheimer´s disease, are both strongly associated with defects in BDNF/TrkB signaling. This project investigates drugs that enhance BDNF availability and ameliorate TrkB signaling, and when combined with physical exercise, are highly efficient protective factors for both diseases and thus represent an innovative therapeutic avenue promising high patient benefits.

Further information available at:

https://www.neurodegenerationresearch.eu/wp-content/uploads/2015/10/Factsheet_CircProt-1.pdf

Types:

Investments < €500k

Member States:

Finland

Diseases:

N/A

Years:

2016

Database Categories:

N/A

Database Tags:

N/A