

**HORIZON
2020**

Real-time characterisation of neuropeptide binding to a membrane receptor involved in pain and ischemic stroke

Fact Sheet

Project Information

hsPCF-FRET

Grant agreement ID: 834274

[Project website](#) 

DOI

[10.3030/834274](https://doi.org/10.3030/834274) 

Project closed

EC signature date

18 March 2019

Start date

1 April 2019

End date

31 March 2021

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 207 312,00

EU contribution

€ 207 312,00

Coordinated by

KOBENHAVNS UNIVERSITET



Denmark

Project description

Ligand binding assay protocol sets the stage for new treatment options

Brain tissue acidosis is a result of either an increase in carbon dioxide tension or an accumulation of acids produced by metabolism. Normally, local acidification of brain tissue serves as a neuronal signal, transduced via acid-sensing ion channels (ASIC1a). Local acidosis has been linked to conditions such as chronic pain, ischaemic stroke and psychiatric disorders. Recently, the potentially therapeutic role of ASIC1a has been pointed out, but no drugs are currently available to target the channels under pathological conditions. The EU-funded hsPCF-FRET project aims to characterise the binding of the neuropeptide big dynorphin to ASIC1a in real time and identify binding sites and interactions. The results will aid the future design of ASIC1a inhibitors with the potential to treat chronic pain and ischaemia.

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [biochemistry](#) > [biomolecules](#) > **[proteins](#)**

[medical and health sciences](#) > [basic medicine](#) > [neurology](#) > **[stroke](#)**



Programme(s)

[H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)

MAIN PROGRAMME

[H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility](#)

Topic(s)

[MSCA-IF-2018 - Individual Fellowships](#)

Call for proposal

[H2020-MSCA-IF-2018](#)

[See other projects for this call](#)

Funding Scheme

[MSCA-IF-EF-ST - Standard EF](#)

Coordinator



KOBENHAVNS UNIVERSITET

Net EU contribution

€ 207 312,00

Total cost

€ 207 312,00

Address

NORREGADE 10

1165 København

 **Denmark** 

Region

Danmark > Hovedstaden > Byen København

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

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Permalink: <https://cordis.europa.eu/project/id/834274>

European Union, 2025