

**HORIZON
2020**

MALDI-TOF mass spectrometry metabolite screening assays for drug discovery in human disease

Fact Sheet

Project Information

HTS MALDI-TOF MDD

Grant agreement ID: 890296

[Project website](#) 

DOI

[10.3030/890296](https://doi.org/10.3030/890296) 

Project closed

EC signature date

20 March 2020

Start date

1 April 2020

End date

12 July 2022

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 212 933,76

EU contribution

€ 212 933,76

Coordinated by

UNIVERSITY OF NEWCASTLE
UPON TYNE

 United Kingdom

Project description

Advancing drug discovery assays

Discovery of therapeutic targets is a key step in the drug discovery pipeline, where high-throughput screening (HTS) of chemical substances are evaluated in various biological processes. The scope of the EU-funded HTS MALDI-TOF MDD project is to incorporate matrix-assisted laser desorption/ionisation time of flight (MALDI-TOF) mass spectrometry in cellular metabolomics assays. The plan is to investigate how

drugs affect different metabolic pathways and simultaneously map the metabolic profile of the cell. Using a pulmonary fibrosis cellular model, researchers will evaluate whether particular metabolites can serve as biomarkers for disease diagnosis as well as a readout in drug discovery assays.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [basic medicine](#) > [pharmacology and pharmacy](#) > [drug discovery](#)

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

[natural sciences](#) > [chemical sciences](#) > [analytical chemistry](#) > [mass spectrometry](#)

[natural sciences](#) > [physical sciences](#) > [optics](#) > [laser physics](#)



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-2019 - Individual Fellowships](#)

Call for proposal

[H2020-MSCA-IF-2019](#)

[See other projects for this call](#)

Funding Scheme

[MSCA-IF - Marie Skłodowska-Curie Individual Fellowships \(IF\)](#)

Coordinator



UNIVERSITY OF NEWCASTLE UPON TYNE

Net EU contribution

€ 212 933,76

Total cost

€ 212 933,76

Address

KINGS GATE

NE1 7RU Newcastle Upon Tyne

 **United Kingdom** 

Region

North East (England) > Northumberland and Tyne and Wear > Tyneside

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Last update: 2 December 2022

Permalink: <https://cordis.europa.eu/project/id/890296>

European Union, 2025