Labelling of engineered nanomaterials for nanosafety tracing

Fact Sheet

Project Information

NanoLabels

Grant agreement ID: 750455

Project website

DOI
10.3030/750455

Project closed

EC signature date
17 March 2017

Start date
1 February 2018

End date
27 February 2020

Funded under
EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost
€ 195 454,80

EU contribution
€ 195 454,80

Coordinated by
THE UNIVERSITY OF BIRMINGHAM
United Kingdom

Objective

Major uncertainty still exists on the safety of engineered nanomaterials (ENMs). This is primarily due to difficulties in studying such small-scale objects and especially tracing their fate and behaviour in laboratory experiments and, even more so, the environment. Labelling of ENMs can serve a very important role of tracer in the environment, and ultimately be used as a tool to create unique ENM identities and support the concept of “safer-by-design”. The proposed project will compare different labelling techniques, both conventional (fluorescent labels) and emerging (stable isotopic and chemical labelling) where the host and ER have complementary expertise, and investigate multiple labels. It will consider aspects of industrial

synthesis and scaling up and carry out a field experiment involving labelled ENMs. The ER will be hosted by the team who pioneered stable isotope labelling of ENMs and benefit from placements with the JRC and Glantreo, whilst bringing to the project his own unique expertise on ENM synthesis and tracing.

Fields of science (EuroSciVoc)

engineering and technology > nanotechnology > **nano-materials**

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-2016 - Individual Fellowships

Call for proposal

H2020-MSCA-IF-2016

See other projects for this call

Funding Scheme

MSCA-IF-EF-ST - Standard EF

Coordinator

THE UNIVERSITY OF BIRMINGHAM

Net EU contribution

€ 195 454,80

Total cost

€ 195 454,80

Address

Edgbaston
B15 2TT Birmingham
United Kingdom

Region

West Midlands (England) > West Midlands > Birmingham

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Last update: 17 August 2022

Permalink: https://cordis.europa.eu/project/id/750455