**Fact Sheet**

<table>
<thead>
<tr>
<th>Project Information</th>
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<tr>
<td><strong>DNA-BIO</strong></td>
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<tr>
<td>Grant agreement ID: 101027489</td>
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<td><strong>DOI</strong></td>
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<td><a href="10.3030/101027489">10.3030/101027489</a></td>
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<td><strong>Start date</strong></td>
<td><strong>End date</strong></td>
</tr>
<tr>
<td>1 January 2023</td>
<td>31 December 2024</td>
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<tr>
<td><strong>Funded under</strong></td>
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<tr>
<td>EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions</td>
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<td><strong>Total cost</strong></td>
<td><strong>EU contribution</strong></td>
</tr>
<tr>
<td>€ 204 847,68</td>
<td>€ 204 847,68</td>
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<tr>
<td><strong>Coordinated by</strong></td>
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<tr>
<td>UNIVERSITY OF LEICESTER</td>
<td>United Kingdom</td>
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**Project description**

**Diamond biosensors**

Biosensors are analytical devices that encompass a sensitive biological detection material or a biological receptor capable of offering ultrasensitive detection of markers specific for diseases. Nanomaterials and in particular diamond-based nanoparticles exhibit attractive properties for in vitro biosensing, but their fabrication presents with technical challenges. The EU-funded DNA-BIO project focuses on the development of novel nanodiamond species that can be selectively functionalised on their surface to serve specific sensing applications including biological imaging. The project is expected to bring the next generation of high-resolution bioimaging sensors to the research community and the biomedical field.
Fields of science

- engineering and technology > environmental biotechnology > biosensing
- engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > sensors
- engineering and technology > nanotechnology > nano-materials
- engineering and technology > industrial biotechnology > biomaterials

Keywords

- materials process
- surface functionalisation
- sensor

Programme(s)

- H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions
- H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility

Topic(s)

- MSCA-IF-2020 - Individual Fellowships

Call for proposal

- H2020-MSCA-IF-2020

See other projects for this call

Funding Scheme

- MSCA-IF - Marie Skłodowska-Curie Individual Fellowships (IF)

Coordinator

- UNIVERSITY OF LEICESTER
Partners (1)

**PARTNER**  
**NATIONAL INSTITUTE FOR MATERIALS SCIENCE**  
- Japan

Net EU contribution

€ 0,00

Address

Sengen 1-2-1  
305 0047 Tsukuba

Activity type

Research Organisations

Links

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

Other funding

€ 92 380,80

EC signature date 30 April 2021

Last update: 17 July 2023