Marie Skłodowska-Curie Actions Postdoctoral Fellowships 2021
– Supervisor Profile

1. Details of the IMDEA Supervisor

<table>
<thead>
<tr>
<th>Name of Supervisors:</th>
<th>Isabel Rodriguez</th>
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<tbody>
<tr>
<td>E-mail:</td>
<td><a href="mailto:i.rodriguez@imdea.org">i.rodriguez@imdea.org</a></td>
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<tr>
<td>Website:</td>
<td><a href="http://nanociencia.imdea.org/nanostructured-functional-surfaces-program/group-home">http://nanociencia.imdea.org/nanostructured-functional-surfaces-program/group-home</a></td>
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2. Research themes proposed

The research group welcomes postdoctoral candidates in the following research themes:

- Tumour-on-a-chip microfluidic devices
- Cell instructive nanotopographies
- Multifunctional bioinspired surfaces

3. Brief description of the Research Group

This work will be performed at the Nano Functional Surfaces group (NFS). This group leverages on nanofabrication technologies particularly on soft materials to develop nanostructured functional surfaces or devices.

The special competencies of the program include surface patterning techniques such as nano-imprint lithography, hot embossing, soft lithography and molecular patterning.

Presently the program is active on:

- Nano-engineering functional surfaces for medical applications [https://doi.org/10.1002/admi.202002121](https://doi.org/10.1002/admi.202002121)
- Organ-on-a-chip devices [https://pubs.acs.org/doi/10.1021/acsomega.1c00735](https://pubs.acs.org/doi/10.1021/acsomega.1c00735)
- Multifunctional bioinspired surfaces [https://doi.org/10.1016/j.apsusc.2022.152653](https://doi.org/10.1016/j.apsusc.2022.152653)

4. MSCA Research Area Panels

- ☑ Chemistry (CHE)
- ☑ Social Sciences and Humanities (SOC)
- ☑ Economic Sciences (ECO)
- ☒ Information Science and Engineering (ENG)
- ☐ Environmental Sciences and Geology (ENV)
- ☐ Life Sciences (LIF)
- ☐ Mathematics (MAT)
- ☐ Physics (PHY)