Marie Skłodowska-Curie Actions Postdoctoral Fellowships 2022  
Supervisor Profile

1. Details of the IMDEA Supervisor

<table>
<thead>
<tr>
<th>Name of Supervisors</th>
<th>Gorka Salas</th>
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<tbody>
<tr>
<td>E-mail</td>
<td><a href="mailto:gorka.salas@imdea.org">gorka.salas@imdea.org</a></td>
</tr>
<tr>
<td>Website</td>
<td><a href="https://www.nanociencia.imdea.org/magnetic-nanoparticles/group-home">https://www.nanociencia.imdea.org/magnetic-nanoparticles/group-home</a></td>
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2. Research themes proposed

Your work will be focused on the development of hybrid nanomaterials for biomedical applications. Those nanomaterials will be based on inorganic oxides and transition metal derivatives combining different useful properties (e.g. magnetic, plasmonic…), for the treatment and detection of diseases, and that could be functionalized with molecules with biological activity. Chemical methods will be used for the preparation and surface modification of the nanomaterials.

A strong background on synthesis, functionalization and characterization of nanoparticles is recommended. Experience in cell cultures and assessment of antimicrobial activity of nanomaterials will be valued.

3. Brief description of the Research Group

Our main research line is the chemical synthesis and modification of magnetic nanoparticles for biomedical applications, exploring new compositions, synthetic strategies and surface modifications. We work in close collaboration with biologists, biochemists, physicists and chemists of different specialities.

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)