

**BECAS DE COLABORACIÓN – JAE INTRO 2020
EN CENTROS DE EXCELENCIA SEVERO OCHOA – CSIC**

TÍTULO DEL PROYECTO:

Highly Luminescent Organic Radical Nanoparticles (ONPs) and Self-Assembled Monolayers (SAMs) for Biomedical Applications

IP:

Imma Ratera

Email: iratera@icmab.es

<http://orcid.org/0000-0002-1464-9789>

<http://www.ciber-bbn.es/>

<http://www.icmab.es/nanomol>

**RESUMEN DE LA PROPUESTA:
(Máximo 500 caracteres)**

The work will consist on the design and synthesis of molecular multifunctional materials based on organic radicals with tunable properties for the preparation of organic nanoparticles (ONPs) for bioimaging applications and Self Assembled Monolayers (SAMs) for 2D cell guidance studies. Structural and optoelectronic characterization of the nanostructured material with appropriate spectroscopic (IR, XPS, ..) and microscopic (SEM, TEM, AFM, ..) techniques and its final biological evaluation with cells will be addressed.