

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

TÍTULO DEL PROYECTO:

Design of 2D organic materials for sensing applications

IP:

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RESUMEN DE LA PROPUESTA:

(Máximo 500 caracteres)

We aim to achieve conjugated molecules that through design can expand creating 2D molecular-based films with luminescent, magnetic or electronic properties to be used as sensors. For that, we synthesize molecular units, based on curcuminoids, containing sets of functional groups that allow further reactions and coordination. The student will be trained in a sort of techniques (IR, EA, MALDI and NMR) and advanced ones (electrochemistry, fluorescence, XRD, TEM, SEM and AFM).