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CNB
CENTRO NACIONAL DE BIOTECNOLOGÍA

CENTRO NACIONAL DE BIOTECNOLOGÍA (CNB)

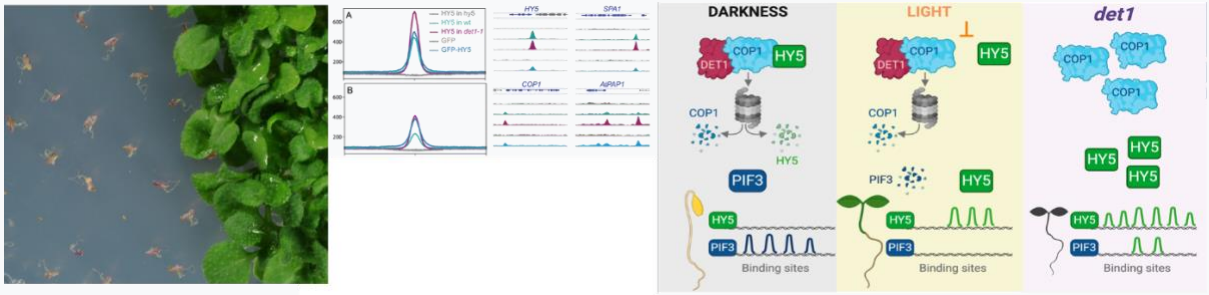
APPLICANTS FOR POSTDOCTORAL CONTRACTS JUAN DE LA CIERVA 2023

We are looking for a motivated candidate to apply for a **Juan de la Cierva 2023 Postdoctoral contract** to carry out research work at the CNB, within the scope of a research project directed by **Dr Sandra Fonseca**.

Project Title: *Light impact in plant growth*

Project description:

As sessile photoautotrophic organisms, plants evolved sophisticated strategies to perceive light environmental signals and to transduce them into molecular signalling networks. Though light is essential for plant growth and development, often plants have to cope with damaging or excessive light conditions, which generate stress and limits growth. We aim to understand the molecular mechanisms that allow plants to integrate beneficial and damaging effects of light and respond to them with striking plasticity. We are especially interested in the events that lead to coordinated transcriptional changes during light adaptation as changes in chromatin states, transcription factor stability and protein homeostasis. To understand the molecular mechanisms that coordinate these processes we are using genetic, genomic, biochemical and proteomic tools.



Contact: Sandra Fonseca, sfonseca@cnb.csic.es

Webpage:
https://www.cnb.csic.es/index.php/es/investigacion/departamentos-de-investigacion/genetica-molecular-de-plantas/senalizacion-luminica-adaptacion-al-medio

Web Juan de la Cierva 2023Call:
https://www.aei.gob.es/convocatorias/buscador-convocatorias/ayudas-contratos-juan-cierva-2023

Publications:

Cañibano E, Gomez-Soto D, Oliveros JC, Bourbousse C, Fonseca S* (2024) An active light signalling pathway is necessary for ABA-mediated inhibition of hypocotyl elongation. ***bioRxiv*** doi: https://doi.org/10.1101/2024.01.20.576397.

Lee B-D, Yim Y, Cañibano, E., Kim S-H, García-León M, Rubio V, Fonseca S*, Paek N-C * (2022) CONSTITUTIVELY PHOTOMORPHOGENIC1 promotes seed germination by destabilizing RGA-LIKE2 in Arabidopsis. ***Plant Physiology*** 89(3):1662-1676 doi:10.1093/ plphys/kiac060

Cañibano E, Bourbousse C, Garcia-Leon, M, Gomez BG, Wolff L, García-Baudino C, Lozano-Duran R, Barneche F, Rubio V*, and Fonseca S* (2021). DET1-mediated COP1 regulation avoids HY5 activity over second-site gene targets to tune plant photomorphogenesis. ***Molecular Plant*** 14:963–982.

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