

## Expressions of Interest for hosting MSCA fellows

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**Javier González-Rosa**

**PostDoc IEF Marie Curie profile**

**The Psychophysiology and Neuroimaging Lab** at the Institute of Biomedical Research and Innovation of Cádiz (INiBICA), integrated within the University of Cadiz, welcomes postdoctoral candidates interested in applying for a Marie Skłodowska-Curie Individual Fellowships (MSCA-IF) in 2021 at this Institute. Please note that applicants must comply with the Mobility Rule.

We are an interdisciplinary, active, and vibrant research group with a positive dynamic and friendly atmosphere, with members affiliated to the University of Cadiz and to the Puerta del Mar University Hospital. The head of the Group is Javier J. Gonzalez-Rosa, currently a “Ramon y Cajal” Research Fellow who has been also awarded two postdoctoral Marie Curie fellowships during his scientific training. Most of the group activities are developed at the Lab located at the same Puerta del Mar University Hospital, which provide clinical experience with excellent research facilities, patients access, and equipment to investigate emotional and cognitive processes and brain activity abnormalities from clinical, neurocognitive, and experimental approaches. Our Lab is currently made up of the IP of the group, 3 fellow postdocs, 5 fellow predocs, a technician, as well as different clinicians.

Research projects include a broad range of studies assessing the critical interactions of “frontal-basal ganglia” (cortical-subcortical) networks in different disabling brain conditions and its relationship to the pathogenesis, maintenance, and reduction of chronic symptoms. We are interested in understanding the role of these cortical-subcortical regions to exert the cognitive control over diverse behaviours and the nature of brain mechanisms underlying cognitive impairment both in healthy populations and neurological patients.

We also have available a wide range of neuroscience techniques simultaneously acquired during invasive and non-invasive brain stimulation protocols in a variety of populations and situations, such as behavioural and computerized cognitive testing, eye-tracking, peripheral measures, human LFP recordings, high density EEG recordings, tDCS, neuronavigated TMS, fMRI, and structural MRI, including the simultaneous recording of LFP/eye-tracker/EEG data, advance EEG/fMRI mapping methods, and VMB and cortical thickness analysis.

The post-holder will have the opportunity to acquire new responsibilities that allow his/her to greatly improve the management of his/her own projects and research career and to develop independent research thinking and leadership qualities for postdoctoral stage researchers in the fields of cognitive and clinical neuroscience. He/she will also have the opportunity to acquire or extend his/her experience working with neurological patients (e.g., Parkinson disease, Multiple Sclerosis, Chronic Migraine) and work in interdisciplinary teams between different departments involving cognitive neuroscientists, neurosurgeons, and neurologists, and will benefit from the motivating

# MSCA-IF-2021



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environment provided by the INiBICA Institute in Cadiz and different research groups integrated in our Institution.