

PhD positions open in Cognitive Neuroscience

The **Barcelona BrainLab (BBL)** [www.ub.edu/brainlab] invites applications for two 3-year PhD studentships commencing during the fall 2014 in the field of the *cognitive neuroscience of auditory perception*.

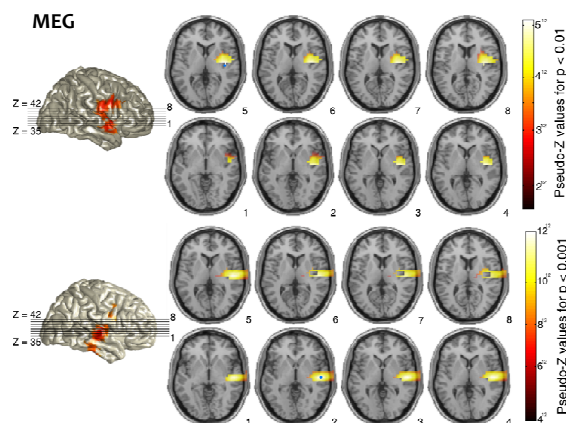
Principal Investigator: Prof. Dr. Carles Escera

We are seeking for talented graduates in any field related to the Neurosciences (Psychology, Cognitive Sciences, Computer Sciences, Medicine, Biology, Engineering, Physics)

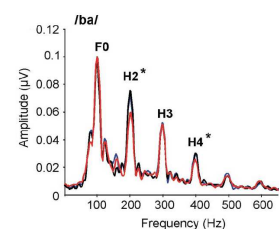
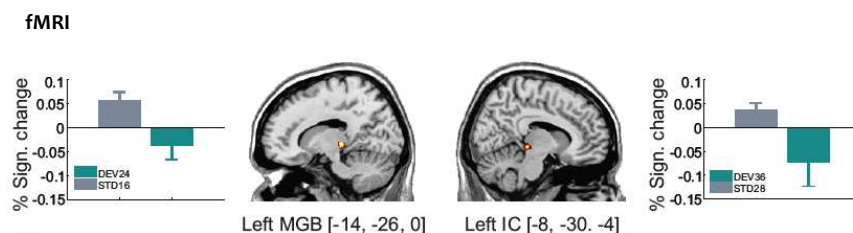
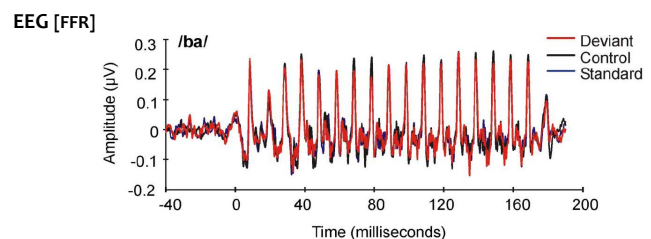
Requirements: **1)** EU citizenship, **2)** to have a completed Bachelor and Master degrees at the time of application, **3)** to have the highest academic marks, **4)** computer skills (e.g., Matlab programming is a plus)

Candidates are expected to enter the PhD Program in Biomedicine (Area of Neurosciences of University of Barcelona [www.ub.edu/doctorat_biomedicina/eng/index.htm]), and to be willing to work hard and travel across the world as part of their training.

Our current project investigates how the auditory system encodes for acoustic regularities and what are the neural mechanisms of novelty detection, at all hierarchical levels and temporal scales of the auditory system.



We run EEG, MEG and fMRI experiments, and analyze event-related brain potentials and magnetic fields, as well as oscillatory activity and synchronization. By recording the Frequency Following Response (FFR) and functional MRI, we recently showed that the inferior colliculus is involved in deviance detection. Also, our MEG results revealed recurrent networks of regularity encoding in human auditory cortex.



Applicants should send 1) a letter of motivation, 2) CV, and 3) a copy of the academic marks record (in ECTS format) to Ms. Marta Turró by email at brainlab@ub.edu.

Applications will be processed until the positions are filled [post data: April 22nd, 2014]

The studentship will provide a stipend of circa 15,000 EUR/year