Multidimensional scanning of cerebral and cognitive functions in disorder of consciousness using hd-EEG

Objectively determining whether a person is aware of her/himself and/or of her/his environment remains a major challenge in contemporary cognitive sciences. The assessment of residual brain functions in patients with a disorder of consciousness has strong clinical (patient management) and fundamental (under sensory, cognitive functions and consciousness) implications.

The main objective of this fundamental and clinical project is to better understand the dynamics of brain functions (sensation, auditory perception, semantic discrimination, functional connectivity) using high density EEG. The candidate will participate in the EEG acquisitions and will benefit from a national network to analyse (using python scripts) the data obtained in a cohort of patients.

