



Call for applications for the assignment of 1 research fellowship grant for carrying out Category B research activities, as per Article 22 of Italian Law No. 240/2010, for the Scientific Disciplinary Sector of MED/26 – Neurology, at the facilities of the Centro Integrato di Ricerca (CIR - Integrated Research Centre) and of the Departmental Faculty of Medicine and Surgery of Università Campus Bio-Medico di Roma.

Call Code: ASS-RIC/07_23

Departmental Faculty	Medicine and Surgery
Research theme	Study of a decision support system for personalized Anti-Seizure medication selection in people with focal Epilepsy.
Brief description of the research	The primary objective of this project will be the construction of personalized prognostic models in newly diagnosed focal epilepsy patients. It aims to develop a machine-learning (ML) model that will simultaneously optimize features identification from EEG and fitting of prediction regression models for clinical response to anti-seizure medications (ASMs). The project will establish the resting state EEG predictive signature of the 3 most commonly used ASMs (Levetiracetam, Lamotrigine, Carbamazepine) by training our algorithm on at least 100 EEG. The project will then use five additional datasets (n = 100) to validate the developed algorithm. Together, these efforts will aim to reveal a treatment-responsive phenotype in epilepsy.
Scientific Supervisor	Dr. Giovanni Assenza
Scientific Disciplinary Sector	MED/26 – Neurology
Language knowledge and skills	Written and spoken English, minimum level C1
Date of the interview	25th October 2023, at 9:30 am Remote candidates on Microsoft Teams platform