

SCIENTIFIC DICIPLINARY AREA: MEDICINE
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**RESEARCH PROGRAM NO. 42**

**The assessment criteria for the qualifications and the interview will be affixed on 9.7.2018 at 9.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) - Clinica Neurologica, Largo Daneo 3, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 9.7.2018 at 17.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) - Clinica Neurologica, Largo Daneo 3, Genova.

**The interview will be held on 10.7.2018 at 15.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI) - Clinica Neurologica, Largo Daneo 3, Genova.

**Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.**

**Scientific coordinator:** Prof. Elisa PELOSIN

**NO.1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00**

**Title:** Boosting the brain: effect of cortical stimulation protocol on motor performance under dual task condition in patients with Parkinson's disease.

**Description:** The present study aims to explore the effects of dorso-lateral-prefrontal cortex (dLPFC) neuromodulation via transcranial direct current stimulation (tDCS), on gait performance during dual-task condition in patients with Parkinson's disease. Evidence has been shown that the dual task hightens walking deficits and increases the risk of falls. Recent studies have also demonstrated that a single session of tDCS can improve walking speed and stride length in patient's with Parkinson's disease. This approach could potentially allow shorter training sessions with greater effectiveness. The challenge of rehabilitation is to create new interventions that are efficient and able to promote motor learning in order to prolong its effectiveness over time.

**Scientific disciplinary sector:** MED/48 SCIENZE INFERMIERISTICHE E TECNICHE NEURO-PSICHIATRICHE E RIABILITATIVE

**Place:** Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno Infantili (DINOEMI)

**Required degree:**

Laurea Magistrale della classe LM/SNT2 Scienze riabilitive delle professioni sanitarie

**Subjects of the interview:**

- Scientific evidence, guidelines and physical therapy approaches for patients with Parkinson's disease.
- Principles and techniques of non-invasive cortical neuromodulation.
- Motor and cognitive assessment tests.
- Principles of statistical analysis.

The candidate will need to prove his/her knowledge of the English language.