



Università degli Studi "G. d'Annunzio"  
CHIETI - PESCARA



Via dei Vestini, 31 – 66100 Chieti – Italy  
C. F. 93002750698 – P. I. 01335970693

Rectorial Decree no. 150 prot. no. 5285 dated 28/01/2020  
Published on 28/01/2020 Deadline 27/02/2020

Form 1) Declaratory judgement on study grants called

via Authorising Deliberation of the Senate dated 08/10/2019  
Board of Directors' Authorising Deliberation dated 22/10/2019

|                           |   |
|---------------------------|---|
| UNIVERSITY RESEARCH LINES | <p>ConnectToBrain project</p> <p>(University Strategic Plan approved by the Board of Directors on 25/06/2019 under the opinion of the Academic Senate rendered in the session held 11/06/2019.)</p> <p>(University Strategic Plan with deliberation held by the Board of Directors on 24/09/2019)</p> <p>University Regulations for the assignment of grants for the collaboration in research activities issued with Rectorial Decree no. 946 dated 25/10/2011 and amended with Rectorial Decree no. 349 dated 17/2/2012 and Rectorial Decree no. 1367 dated 22/09/2016 and Rectorial Decree no. 3586 dated 03/08/2018</p> |
| AREA                      | 02  |
| COMPETITION SECTOR        | 02/D1   |
| S.S.D.                    | FIS/07  |

ConnectToBrain — ERC-2018-SyG - Grant Agreement number: 810377  
The project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement No 810377).



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|                    |   |
|--------------------|---|
| TUTOR              | Prof. Laura Marzetti  |
| TITLE IN ITALIAN   | “Sviluppo di metodi multivariati per la caratterizzazione delle interazioni cerebrali funzionali” |
| TITLE IN ENGLISH   | “Development of multivariate methods for the characterization of brain functional interactions”   |
| DURATION           | Annual                      Renewable<br><br>x BIENNIAL, RENEWABLE _____                          |
| ANNUAL COST        | €. 25,000.00  |
| UNIVERSITY FUNDING | ERC-SYNERGY Project, ConnectToBrain   |
| CUP                | D54I18000270006   |

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| <p>CURRICULUM REQUISITES IDENTIFIED AS REQUISITES FOR PARTICIPATION:</p>           | <ul style="list-style-type: none"> <li>□ LM - 17 Physics</li> <li>□ LM – 40 Mathematics</li> <li>□ LM-21 Biomedical engineering</li> </ul>   |
| <p>FURTHER SELECTION ELEMENTS TO BE SEEN DURING EMANATION OF THE CALL</p>          | <ul style="list-style-type: none"> <li>□ Research Doctorate in Neurosciences, or Physics or Biomedical Engineering</li> <li>□ Educational, scientific or professional curriculum suitable for undertaking the specific study and research programme subject to the grant.</li> <li>□ Knowledge of advanced methods in analysing functional connectivity through Magnetoencephalogram (MEG), or Electroencephalogram (EEG).</li> </ul>                |
| <p>BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY IN ITALIAN (MAX 1000 CHARACTERS)</p> | <p>La ricerca ha come obiettivo lo sviluppo di metodi innovativi per rivelare la connettività funzionale del cervello in real-time a partire da segnali MEG e EEG.</p> <p>A tal fine, l'attività di ricerca coinvolgerà: (i) lo sviluppo di tecniche per l'estrazione dell'attività cerebrale in real-time; (ii) lo sviluppo di tecniche di connettività implementabili in real-time.</p>  |
| <p>BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY IN ENGLISH (MAX 1000 CHARACTERS)</p> | <p>The research aims to develop innovative methods for detecting real-time brain functional connectivity starting from magnetoencephalographic (MEG) and electroencephalographic (EEG) signals.</p> <p>To this end, the research activity will involve: (i) the development of signal analysis techniques for estimating brain activity in real-time; (ii) the development of functional connectivity methods applicable in a real-time setting.</p> |
| <p>EXPECTED RESULTS</p>  | <p>The availability of methods to identify cerebral activity and connectivity in real-time will allow this information to be used in neuromodulation systems in a closed-loop mode, such as the</p>  |

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|--|---|
|  | <p>multi-locus TMS system of the ConnectToBrain product.</p> <p>All research activities will be undertaken in the Department of Neurosciences, Imaging and Clinical Sciences.</p> |
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Z:\ASSEGNI RICERCA\BANDO Prof. ROMANI\scheda 1) declaratoria assegni di ricerca banditi.docx

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