

WP2 Telemedicine and environment health

Functional biomarkers from non-invasive neuroimaging

16 April 2025 11:00 am **zoom**

Welcome message by the Chair

We will explore the most recent advances in the analysis of brain activity and connectivity using non-invasive neuroimaging, from methods to their application in basic and clinical neuroscience.

Partecipare:













Chairs



Name	Prof. Stefania Della Penna	
Affiliation	Department of Neuroscience, Imaging and Clinical Sciences, University G. d'Annunzio of Chieti-Pescara, Italy	
Short bio	Stefania Della Penna is an Associate Professor of Applied Physics, PhD, at the University of Chieti-Pescara, where she is the Pi of a research group involved in research on innovative instrumentation for advanced, multimodal imaging and on its application, focusing on methods for the study of the human connectome and its topology. Specifically, prof. Della Penna is expert in magnetoencephalography, from instrumentation to signal analysis and strategies for its integration with fMRI, and in methods for the study of the dynamics of functional and effective connectivity and the underlying architecture.	
Email	stefania.dellapenna@unich.it	



Name	Prof. Richard Wise
Affiliation	Department of Neuroscience, Imaging and Clinical Sciences, University G. d'Annunzio of Chieti-Pescara, Italy
Short bio	Richard is an MRI Physicist with 30 years' experience of developing MRI methods and applying them to study human physiology. His research focusses on quantifying human brain activity in health and disease. Richard conducted his post-doctoral research at Oxford University before moving to Cardiff University in 2006 and then to the University of Chieti-Pescara in 2019. He recently became Director of ITAB, the Institute of Advanced Biomedical Technologies at the University of Chieti-Pescara.
Email	richard.wise@unich.it



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Speakers





tle	Temporal modes of synchronization in the dynamic core network at rest	
ame	Prof. Francesco de Pasquale	
filiation	School of Veterinary Medicine, University of Teramo, Italy	
iort bio	Francesco de Pasquale is an associate professor of Applied Physics at University of Teramo since 2016. He graduated in Roma at La Sapienza University and received a PhD in Applied Statistics at University of Plymouth. His teaching activities include Medical Physics, Technical Physics and Advanced Imaging Techniques. His research is focused on the development of models and methods for the analysis of functional connectivity from fMRI and MEG recordings in both healthy and pathological subjects. He is currently the PI of the project EVERYONE aimed at assessing brain vulnerability and individual fingerprinting through connectivity measures.	
nail	f.depasquale@unite.it	



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Program

Time	Presentations	Speakers
11:00 - 11:10 am	Chair Introduction	Stefania Della Penna
11:10 - 11:35 am	Progression Markers in MS and NMOSD	Emanuele Pravatà
11:35 - 11:45 am	Q&A	
11:45 am - 12:10 pm	Advanced MRI techniques to investigate Neuroplasticity	Eleonora Patitucci
12:10 - 12:20 pm	Q&A	
12:20 - 12:45 pm	Temporal modes of synchronization in the dynamic core network at rest	Francesco de Pasquale
12:45 - 12:55 pm	Q&A	
12:55 - 1:00 pm	Closing of Webinar	Richard Wise

Partecipare:

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