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## BIOGRAPHICAL SKETCH

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NAME: LEONARDO FAZIO

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POSITION TITLE: Postdoctoral fellow

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EDUCATION/TRAINING:

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INSTITUTION AND LOCATION	DEGREE	Completion Date MM/YYYY	FIELD OF STUDY
University of Bari "Aldo Moro", Bari, Italy	MSc	10/2006	Clinical Psychology
University of Bari "Aldo Moro", Bari, Italy	PhD	03/2010	Neuroscience / Imaging Genetics
Institute of Post-Rationalist Cognitive Psychology and Psychotherapy	PsyD	03/2014	Psychotherapy
University of Bari "Aldo Moro", Bari, Italy	Postdoctoral training	Since 2010	Neuroscience / Imaging Genetics

### A. Personal Statement

My research interest centers on the characterization of "biological markers" (endophenotype) relevant to psychosis, using in vivo brain imaging methods such as functional and structural magnetic resonance imaging (fMRI / sMRI) and magnetoencephalography (MEG), combined with clinical and neuropsychological methods. The identification of endophenotype associated with psychosis is crucial for the identification of the genetic risk of the disease as well as the environmental conditions that modulate this risk. In this perspective, research on endophenotypes could lead to the development of new pharmacological treatments and to the early identification of subjects at risk of developing psychosis, contributing to ameliorate the burdens of suffering, social exclusion and lack of functioning of patients with psychosis.

### B. Positions and Honors

#### Positions and Employment

2012-2020 Post-doctoral research fellow and at the Department of Basic Medical Sciences, Neuroscience and Sense Organs, University of Bari "Aldo Moro", Bari, Italy.

Research program: "Imaging genetics of mental disorders"

2012-2020 Research collaborator at the "Scientific Research Hospital (IRCCS) - Casa Sollievo della Sofferenza", San Giovanni Rotondo (FG), Italy.

Research program: "Neuroimaging of mental disorders."

2010-2012 Post-doctoral student at the Department of Basic Medical Sciences, Neuroscience and Sense Organs, University of Bari "Aldo Moro", Bari, Italy.

Research program: "Neuroimaging of apathy"

2007-2010 PhD student at the Department of Basic Medical Sciences, Neuroscience and Sense Organs, University of Bari "Aldo Moro", Bari, Italy.

PhD project: "Dopamine genetics and motor cortical activity"

### **C. Contributions to Science**

#### **Recent Publications:**

. Fazio L, Pergola G, Papalino M, Di Carlo P, Monda A, Gelao B, Amoroso N, Tangaro S, Rampino A, Popolizio T, Bertolino A, Blasi G. Transcriptomic context of DRD1 is associated with prefrontal activity and behavior during working memory. *Proceedings of the National Academy of Science USA (PNAS)*. 2018 May 22;115(21):5582-5587. doi: 10.1073/pnas.1717135115. Epub 2018 May 7. PMID: 29735686. Ed. NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW, WASHINGTON, DC 20418 USA - ISSN: 0027- 8424.

. Fazio L, Logroscino G, Taurisano P, Amico G, Quarto T, Antonucci LA, Barulli MR, Mancini M, Gelao B, Ferranti L, Popolizio T, Bertolino A, Blasi G. Prefrontal Activity and Connectivity with the Basal Ganglia during Performance of Complex Cognitive Tasks Is Associated with Apathy in Healthy Subjects. *PLoS One*. 2016 Oct 31;11(10):e0165301. doi: 10.1371/journal.pone.0165301. eCollection 2016.

. Antonucci LA, Penzel N, Pergola G, Kambeitz-Ilankovic L, Dwyer D, Kambeitz J, Haas SS, Passiatore R, Fazio L, Caforio G, Falkai P, Blasi G, Bertolino A, Koutsouleris. Multivariate classification of schizophrenia and its familial risk based on load-dependent attentional control brain functional connectivity. *Neuropsychopharmacology*. 2019 Oct 3. doi: 10.1038/s41386-019-0532-3

. Selvaggi P, Pergola G, Gelao B, Di Carlo P, Nettis MA, Amico G, Fazio L, Rampino A, Sambataro F, Blasi G, Bertolino A. Genetic Variation of a DRD2 Co-expression Network is Associated with Changes in Prefrontal Function After D2 Receptors Stimulation. *Cerebral Cortex*. 2018 Feb 3. doi: 10.1093/cercor/bhy022. Ed.

OXFORD UNIV PRESS INC, JOURNALS DEPT, 2001 EVANS RD, CARY, NC 27513 USA - ISSN: 1047-3211.

. Quarto T, Paparella I, De Tullio D, Viscanti G, Fazio L, Taurisano P, Romano R, Rampino A, Masellis R, Popolizio T, Selvaggi P, Pergola G, Bertolino A, Blasi G. Familial Risk and a Genome-Wide Supported DRD2 Variant for Schizophrenia Predict Lateral Prefrontal-Amygdala Effective Connectivity During Emotion Processing. *Schizophrenia Bulletin*. 2017 Sep 16. doi: 10.1093/schbul/sbx128. Ed. OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND – ISSN: 0586-7614

. Antonucci LA, Taurisano P, Fazio L, Gelao B, Romano R, Quarto T, Porcelli A, Mancini M, Di Giorgio A, Caforio G, Pergola G, Popolizio T, Bertolino A, Blasi G. Association of familial risk for schizophrenia with thalamic and medial prefrontal functional connectivity during attentional control. *Schizophrenia Research* 2016 May;173(1-2):23-9. doi: 10.1016/j.schres.2016.03.014. Epub 2016 Mar 21. PubMed PMID: 27012899. Ed. ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS - ISSN: 0920-9964

. Taurisano P, Antonucci LA, Fazio L, Rampino A, Romano R, Porcelli A, Masellis R, Colizzi M, Quarto T, Torretta S, Di Giorgio A, Pergola G, Bertolino A, Blasi G. Prefrontal activity during working memory is modulated by the interaction of variation in CB1 and COX2 coding genes and correlates with frequency of cannabis use. *Cortex*. 2016 Aug;81:231-8. doi: 10.1016/j.cortex.2016.05.010. Epub 2016 May 21. Ed. ELSEVIER MASSON VIA PALEOCAPA 7, 20121 MILANO, ITALY ISSN: 0010-945

. Pergola G, Di Carlo P, D'Ambrosio E, Gelao B, Fazio L, Papalino M, Monda A, Scozia G, Pietrangelo B, Attrotto M, Apud JA, Chen Q, Mattay VS, Rampino A, Caforio G, Weinberger DR, Blasi G, Bertolino A. DRD2 co-expression network and a related polygenic index predict imaging, behavioral and clinical phenotypes linked to schizophrenia. *Translational Psychiatry* 2017 Jan 17;7(1): e1006. doi: 10.1038/tp.2016.253. Ed. NATURE PUBLISHING GROUP, 75 VARICK ST, 9TH FLR, NEW YORK, NY 10013-1917, USA - ISSN: 2158-3188

. Ursini G, Cavalleri T, Fazio L, Angrisano T, Iacovelli L, Porcelli A, Maddalena G, Punzi G, Mancini M, Gelao B, Romano R, Masellis R, Calabrese F, Rampino A, Taurisano P, Giorgio AD, Keller S, Tarantini L, Sinibaldi L, Quarto T, Popolizio T, Caforio G, Blasi G, Riva MA, De Blasi A, Chiariotti L, Bollati V, Bertolino A. BDNF rs6265 methylation and genotype interact on risk for schizophrenia. *Epigenetics*. 2016 Jan 2;11(1):11-23. doi: 10.1080/15592294.2015.1117736. Epub 2016 Feb 18. PubMed PMID: 26889735; PubMed Central PMCID: PMC4846123. Ed. LANDES BIOSCIENCE, 1806 RIO GRANDE ST, AUSTIN, TX 78702, USA - ISSN: 1559-2294

Complete List of Published Work in at: <https://scholar.google.com/citations?user=1bkTJfQAAAAJ&hl>