

CURRICULUM VITAE

Alessandro Bertolino, Doctor in Medicine, Ph.D. in Neuroscience

Date of birth: 6/26/1967

EDUCATION & EMPLOYMENT

- 2018 Decembre 15 Chair, Department of Basic Medical Science,
Neuroscience and Sense Organs, University of Bari, Italy
- 2016 January 1 Professor and Chairman, Department of Psychiatry,
University of Bari, Italy
- 2015 October – 2016 Consultant for Biomarker Development, pRED, NORD DTA
F. Hoffman-La Roche Ltd. Basel, Switzerland
- 2015- National Scientific Qualification for Full Professorship in Psychiatry in Italy
- 2013 - 2015 Head, Biomarkers and Clinical Imaging, pRED, NORD DTA
F. Hoffman-La Roche Ltd. Basel, Switzerland
- 2012 - Visiting Professor of Psychiatry, Institute of Psychiatry, King's College,
London, United Kingdom
- 2011 - 2013 Delegate for applied research of the Rector of the University of Bari, Italy
- 2010 Winner of the competition for Full Professorship in Psychiatry, University
of Pavia, Italy (Venia Legendi)
- 2005 - Associate Professor, University of Bari, Italy
Faculty of Medicine and Surgery
Clinica Psichiatrica II,
Dipartimento Di Scienze Neurologiche e Psichiatriche
- 1999 - 2004 Assistant Professor, University of Bari, Italy
Faculty of Medicine and Surgery
Clinica Psichiatrica II,
Dipartimento Di Scienze Neurologiche e Psichiatriche
- 2008 - Director, Inpatient Unit
University of Bari General Hospital, Italy
- 1999 - 2008 Clinical Staff Fellow
University of Bari General Hospital, Italy

- 1997 - 2000 Ph.D. in Neuroscience, University of Bari, Italy
- 1997 - 1999 Visiting Scientist, National Institute of Mental Health, Clinical Brain Disorders Branch Division of Intramural Research Programs Neuroscience Center at St. Elizabeths, Washington, DC National Institutes of Health, USA
- 1995 - 1996 Visiting Fellow, National Institute of Mental Health, Clinical Brain Disorders Branch Division of Intramural Research Programs Neuroscience Center at St. Elizabeths, Washington, DC National Institutes of Health, USA
- 1994 - 1995 Special Volunteer, National Institute of Neurological Disorders and Stroke, Neuroimaging Branch Division of Intramural Research Programs National Institutes of Health, USA
- 1991 - 1995 Università degli Studi di Bari, Istituto di Psichiatria, Bari, Italia Residency in Psychiatry (magna cum laude)
- 1985-1991 Università degli Studi di Bari, Facolta' di Medicina, Bari, Italia Doctor in Medicine (magna cum laude)

CERTIFICATIONS

Medical License Number: 9823 Ordine dei Medici Chirurghi ed Odontoiatri della Provincia di Bari
Italian Board of Psychiatry

AWARDS AND GRANTS

- Fellowship from the University of Bari for training abroad (1993)
- NARSAD grant for young investigator 1999 for a total of 60,000 US dollars
- Stanley Foundation grants 1999, 2002 for a total of 360,000 US dollars
- A. D'errico award for best paper published in 1999 from the Italian Society of Psychopathology 2000
- Vittorio F. Guidano Memorial Award from the International Society for Constructivism 2003
- Research Grant from the Italian Ministry of University and Research - Progetto di Ricerca di Interesse Nazionale (PRIN) – MURST, 2005 “Basi genetiche e neurali della

risposta antidepressiva” – Principal investigator of the Research Unit at the Dipartimento di Scienze Neurologiche e Psichiatriche, Università degli Studi di Bari for a total of 32,857 euros

- Research grant from Fondazione Cassa di Risparmio di Puglia: “Pharmacogenetics of response to treatment with olanzapine in patients with schizophrenia: the role of functional genetic variation within the gene coding for Dopamine D2 receptors”: 40,000 Euros
- Grant for Research infrastructures which will be used to acquire an MEG scanner- Programma Operativo Nazionale, Ricerca e Competitività 2007-2013 per le Regioni dell’Obiettivo Convergenza Campania, Puglia, Calabria, Sicilia; Asse I “Sostegno ai Mutamenti Strutturali”; Obiettivo Operativo 4.1.1.4 Potenziamento delle Strutture e delle Dotazioni Scientifiche e Tecnologiche; Progetto “Bioscienze e Salute”: 900,000 Euros
- Research project from the Fondazione con il Sud 2012 “Development of a model for stadiation of schizophrenia prognosis and treatment”: 700,000 Euros
- Unrestricted grants from Eli Lilly 2002-2006 for a total of 150,000 euros
- Research grant Progetto di Ricerca di Interesse Nazionale (PRIN) – MIUR, 2011 “Multicenter study on factors influencing real-life social functioning of people with a diagnosis of schizophrenia.” Principal investigator of the Research Unit at the Dipartimento di Scienze Neurologiche e Psichiatriche, Università degli Studi di Bari. 90.000 euros
- Research project from the Cariplo foundation “Prenatal stress and its epigenetic impact on depression: a translational approach in search of biomarkers for diagnosis and early intervention.” Principal investigator of the Research Unit at the Dipartimento di Scienze Neurologiche e Psichiatriche, Università degli Studi di Bari. 60.000 Euros
- NARSAD grant for independent investigator 2013 for a total of 100,000 US dollars
- Research grant from the Italian Ministry of Health (Ricerca Finalizzata) 2014-2016 – Principal Investigator. *“Interaction between environmentally sensitive DNA methylation and dopamine D2 related genetic variation on schizophrenia phenotypes”* 387,109 Euros

Editorial activities

Member of the Editorial Board of the following journals: Psychological Medicine, World Journal of Psychiatry, Journal of Schizophrenia Research, Personalized Medicine in Psychiatry, Nature Partner Journals Schizophrenia.

Reviewer for PNAS, Journal of Neuroscience, JAMA Psychiatry, Molecular Psychiatry, Biological Psychiatry, American Journal of Psychiatry, Neuropsychopharmacology, Cerebral Cortex, Schizophrenia Research and others.

PUBLICATIONS

PEER REVIEWED PAPERS

- 1) A Bertolino, S. Nawroz, V.S. Mattay, J.H. Duyn, C.T.W. Moonen, A.S. Barnett, J.A. Frank, G. Tedeschi, D.R. Weinberger: "Regionally specific pattern of neurochemical pathology in schizophrenia as assessed by multislice proton magnetic resonance spectroscopic imaging" Am J Psychiatry. 1996 Dec;153(12):1554-63.
- 2) G. Tedeschi, A. Bertolino, G. Campbell, A.S. Barnett, PK Jacob, CTW Moonen, JH Duyn, JR Alger, G Di Chiro: "Reproducibility of proton magnetic resonance spectroscopic imaging" AJNR Am J Neuroradiol. 1996 Nov-Dec;17(10):1871-9.
- 3) G. Tedeschi, A. Bertolino, N Lundbom, S Bonavita, TN Chase, NJ Patronas, L Verhagen, G Di Chiro: "Cortical and subcortical chemical pathology in Alzheimer's disease as assessed by multislice proton magnetic resonance spectroscopic imaging". Neurology. 1996 Sep;47(3):696-704.
- 4) G. Tedeschi, A. Bertolino, S. Massaquoi, G. Campbell, N.J. Patronas, S. Bonavita, A.S. Barnett, J.R. Alger, M. Hallett. "Proton magnetic resonance spectroscopic imaging in patients with cerebellar degeneration". Annals of Neurology 1996; 39:71-78
- 5) G. Tedeschi, A. Bertolino, A. Righini, G. Campbell, R. Raman, J.H. Duyn, C.T.W. Moonen, J.R. Alger, G. Di Chiro: "Brain regional distribution pattern of metabolite signal intensities in young adults by proton magnetic resonance spectroscopic imaging" Neurology. 1996 Sep;47(3):696-704.

- 6) G. Tedeschi, A. Bertolino, A. Righini, G. Campbell, R. Raman, J.H. Duyn, C.T.W. Moonen, J.R. Alger, G. Di Chiro: "Brain regional distribution pattern of metabolite signal intensities in young adults by proton magnetic resonance spectroscopic imaging" *Neurology*. 1996 Sep;47(3):696-704.
- 7) A Bertolino, D.R. Weinberger "Neuroimaging in schizophrenia:a neurodevelopmental perspective for the involvement of frontal and temporo-limbic cortex." *Italian Journal of Psychopathology* 1996;3:201-207
- 8) G. Tedeschi, I. Litvan, S. Bonavita, A. Bertolino, N. Lundbom, N.J. Patronas, G. Di Chiro: "Proton Magnetic Resonance Spectroscopic Imaging in progressive supranuclear palsy, Parkinson's disease, and corticobasal degeneration." *Brain* 1997;120:1541-1552
- 9) VS Mattay, JH Callicott, A Bertolino, AKS Santha, KA Tallent, TE Goldberg, JA Frank, DR Weinberger: "Abnormal Functional Lateralization of the Sensorimotor Cortex in Patients with Schizophrenia". *Neuroreport* 1997;8:2977-2984
- 10) A Bertolino, Weinberger DR: "Fisiopatologia della schizofrenia e sviluppo del cervello." *Problemi in Psichiatria* 1997;12:5-12
- 11) A Bertolino, R.C. Saunders, V.S. Mattay, J. Bachevalier, J.A. Frank, D.R. Weinberger: "Altered development of prefrontal neurons in rhesus monkeys with neonatal mesial temporo-limbic lesions: a proton magnetic resonance spectroscopic imaging study" *Cerebral Cortex* 1997;7:740-748.
- 12) VS Mattay, JH Callicott, A Bertolino, AK Santa, JD Van Horn, KA Tallent, JA Frank, DR Weinberger: "Hemispheric control of motor function: a whole brain echo planar fMRI study". *Psychiatry Res* 1998;83(1):7-22.
- 13) J.H. Callicott, N. Ramsey, K. Tallent, A. Bertolino, M.B. Knable, R. Coppola, T.E. Goldberg, P. van Gelderen, V.S. Mattay, J.A. Frank, C.T.W. Moonen, D.R. Weinberger: "Functional Magnetic Resonance Imaging brain mapping in psychiatry: methodological issues illustrated in a study of working memory in schizophrenia." *Neuropsychopharmacology* 1998;18:186-196.
- 14) A Bertolino, J.H. Callicott, S. Nawroz, V.S. Mattay, J.H. Duyn, G. Tedeschi, J.A. Frank, D.R. Weinberger: "Reproducibility of proton magnetic resonance spectroscopic imaging in patients with schizophrenia." *Neuropsychopharmacology* 1998;18:1-9.
- 15) A Bertolino, J.H. Callicott, I. Elman, V.S. Mattay, J.H. Duyn, G. Tedeschi, J.A. Frank, A. Breier, D.R. Weinberger: "Regionally specific neuronal pathology in untreated patients with schizophrenia: a proton magnetic resonance spectroscopic imaging study." *Biological Psychiatry* 1998;43:641-648.

- 16) A Bertolino, S. Kumra, JH Callicott, VS Mattay, RM Lestz, L Jacobsen, AS Barnett, JH Duyn, JA Frank, JL Rapoport, DR Weinberger: "Common pattern of cortical pathology in childhood-onset and adult-onset schizophrenia as identified by proton magnetic resonance spectroscopic imaging." *American Journal of Psychiatry* 1998;155:1376-1383.
- 17) JH Callicott, MF Egan, A Bertolino, VS Mattay, FJP Langheim, JA Frank, DR Weinberger: "Hippocampal N-acetylaspartate in unaffected siblings of patients with schizophrenia: a possible intermediate neurobiological phenotype." *Biological Psychiatry* 1998;44:941-950.
- 18) JH Callicott, VS Mattay, A Bertolino, K Finn, R Coppola, JA Frank, TE Goldberg, DR Weinberger: "Physiological characteristics of capacity constraints in working memory as revealed by functional MRI." *Cerebral Cortex*. 1999;9(1):20-6.
- 19) A Bertolino, MB Knable, RC Saunders, JH Callicott, B Kolachana, VS Mattay, J Bachevalier, JA Frank, M Egan, DR Weinberger: "The relationship between dorsolateral prefrontal N-acetylaspartate measures and striatal dopamine activity in schizophrenia. *Biological Psychiatry* 1999 Mar 15;45(6):660-7.
- 20) A Bertolino, DR Weinberger: "Proton magnetic resonance spectroscopy in schizophrenia." *European Journal of Radiology* 1999;30:132-141.
- 21) T Scarabino, T Popolizio, A Bertolino, U Salvolini: "Proton magnetic resonance spectroscopy of the brain in pediatric patients." *European Journal of Radiology* 1999;30:142-153.
- 22) A Bertolino: "Dysregulation of dopamine and pathology of prefrontal neurons: neuroimaging studies in schizophrenia and related animal models. *Epidemiologia e Psichiatria Sociale*. 1999;8(4):248-54.
- 23) A Bellomo, A Bertolino, D Labriola, M Nardini: "The psychopathology of dementia and of depression with late-life onset." *Psychiatric Networks* 1999;2(2):38-49.
- 24) A Bertolino, G Esposito, JH Callicott, VS Mattay, JD Van Horn, JA Frank, KF Berman, DR Weinberger: "Specific relationship between prefrontal neuronal N-acetylaspartate and activation of the working memory cortical network in schizophrenia." *American Journal of Psychiatry* 2000 Jan;157(1):26-33.
- 25) A Bertolino, A Breier, JH Callicott, C Adler, VS Mattay, M Shapiro, JA Frank, D Pickar, DR Weinberger: "The relationship between dorsolateral prefrontal neuronal N-acetylaspartate and evoked release of striatal dopamine in schizophrenia." *Neuropsychopharmacology* 2000;22(2):125-32.
- 26) JL Roffman, BK Lipska, A Bertolino, P Van Gelderen, AW Olson, ZZ Khaing, DR Weinberger: "Local and downstream effects of excitotoxic lesions in the rat medial

prefrontal cortex on In vivo 1H-MRS signals.” *Neuropsychopharmacology* 2000; 22(4):430-9.

- 27) VS Mattay, JH Callicott, A Bertolino, I Heaton, JA Frank, R Coppola, KF Berman, TE Goldberg, DR Weinberger: “Effects of dextroamphetamine on cognitive performance and cortical activation.” *Neuroimage* 12: (3) 268-275 SEP 2000.
- 28) JH Callicott, A Bertolino, MF Egan, VS Mattay, FJP Langheim, DR Weinberger: “Selective relationship between prefrontal N-acetylaspartate measures and negative symptoms in schizophrenia.” *American Journal of Psychiatry* 157: (10) 1646-1651 OCT 2000.
- 29) A Bertolino, F Brudaglio, M Nardini: “Pathophysiology of schizophrenia and the neurodevelopmental hypothesis: evidence from an animal model.” *Psychiatric Networks* 3(2):10-21;2000.
- 30) JH Callicott, A Bertolino, VS Mattay, FJP Langheim, J Duyn, R Coppola, TE Goldberg, DR Weinberger: “Physiological dysfunction of the dorsolateral prefrontal cortex in schizophrenia revisited.” *Cerebral Cortex* 10: (11) 1078-1092 NOV 2000.
- 31) A Bertolino, JH Callicott, VS Mattay, KM Weidenhammer, R Rakow, MF Egan, DR Weinberger: “The effect of treatment with antipsychotic drugs on brain N-acetylaspartate measures in patients with schizophrenia.” *Biological Psychiatry* 2001 Jan 1;49(1):39-46.
- 32) M Altamura, M Pepe, A Tafaro, I Munno, A Bertolino, D Labriola, A Vacca, E Jirillo, M Nardini A syndrome characterized by psychiatric disorders, recurrent mucosal infections and natural immunity deficits: Clinical approach *Immunopharmacology and Immunotoxicology* 23: (2) 303-306 2001
- 33) DR Weinberger, MF Egan, A Bertolino, JH Callicott, VS Mattay, BK Lipska, KF Berman, TE Goldberg: “Prefrontal neurons and the genetics of schizophrenia.” *Biol Psychiatry* 2001 Dec 1;50(11):825-44
- 34) A Bertolino, J Roffman, B Lipska, P van Gelderen, A Olson, DR Weinberger: “Reduced N-acetylaspartate in prefrontal cortex of adult rats with neonatal hippocampal damage.” *Cerebral Cortex* 12:983-990;2002.
- 35) VS Mattay, A Tessitore, JH Callicott, A Bertolino, TE Goldberg, TN Chase, TM Hyde, DR Weinberger: “Dopaminergic modulation of cortical function in patients with Parkinson's disease.” *Ann Neurol* 2002 Feb;51(2):156-64
- 36) A Bertolino, D Sciota, F Brudaglio, M Altamura, G Blasi, A Bellomo, N Antonucci, J H. Callicott, T E. Goldberg, T Scarabino, D R. Weinberger, M Nardini: “Working memory deficits and levels of n-acetylaspartate in patients with schizophreniform disorder.” *American Journal of Psychiatry*, March 2003 160: 483-489

- 37) A Bertolino, M Frye, J H Callicott, V S Mattay, R Rakow, J Shelton-Repella, R Post, D R Weinberger: "Neuronal pathology in the hippocampal area of patients with bipolar disorder: a study with proton magnetic resonance spectroscopic imaging." *Biological Psychiatry* 2003;53:906-913
- 38) MF Egan, M Kojima, JH Callicott, TE Goldberg, BS Kolachana, A Bertolino, E Zaitsev, B Gold, D Goldman, M Dean, B Lu, DR Weinberger: "The BDNF val66met polymorphism affects activity-dependent secretion of BDNF and human memory and hippocampal function". *Cell*. 2003 Jan 24;112(2):257-69.
- 39) J.H. Callicott, M.F. Egan, V.S. Mattay, A. Bertolino, A.D. Bone, B. Verchinski, D.R. Weinberger: Abnormal fMRI Response of the Dorsolateral Prefrontal Cortex in Cognitively Intact Siblings of Patients With Schizophrenia *Am J Psychiatry* 2003 Apr;160(4):709-19.
- 40) Scarabino T, Nemore F, Giannatempo GM, A Bertolino, Di Salle F, Salvolini U. "3.0 T magnetic resonance in neuroradiology." *Eur J Radiol*. 2003 Nov;48(2):154-64.
- 41) T Scarabino, A Bertolino, M Burroni, T Popolizio, JH Duyn, DR Weinberger, U Salvolini. White Matter Lesions in Phenylketonuria: evaluation with magnetic resonance imaging and magnetic resonance spectroscopy. *Riv Neuroradiologia* 16:251-262, 2003.
- 42) A. Bertolino, G. Caforio, G. Blasi, M. De Candia, V. Latorre, V. Petruzzella, M. Altamura, G. Nappi, S. Papa, J.H. Callicott, V.S. Mattay, A. Bellomo, T. Scarabino, D.R. Weinberger, M. Nardini: "Interaction of COMT Val^{108/158} Met genotype and olanzapine treatment on prefrontal cortical function in patients with schizophrenia". *Am J Psychiatry* 161:1798-1805;2004.
- 43) G Blasi, A Bertolino, F Brudaglio, D Sciota, M Altamura, N Antonucci, T Scarabino, DR Weinberger, M Nardini: "Hippocampal neurochemical pathology in patients at first episode of affective psychosis: a Proton Magnetic Resonance Spectroscopic Imaging Study". *Psychiatry Research-Neuroimaging* 131:195-205;2004
- 44) A. Bertolino, G. Blasi, G. Caforio, V. Latorre, M. De Candia, V. Rubino, J. H. Callicott, V. S. Mattay, A. Bellomo, T. Scarabino, D. R. Weinberger, M. Nardini: Functional lateralization of the sensorimotor cortex in patients with schizophrenia: effects of treatment with olanzapine. *Biological Psychiatry*, 56(3):190-197;2004
- 45) MF Egan, RE Straub, TE Goldberg, I Yakub, JH Callicott, AR Hariri, A Bertolino, TM Hyde, C Shannon-Weickert, M Akil, J Crook, R Vakkalanka, R Balkissoon, RA Gibbs, JE Kleinman, DR Weinberger. Variation in *GRM3* affects cognition, prefrontal glutamate, and risk for schizophrenia. *Proceedings of the National Academy of Science USA* 101(34):12604-12609; 2004.
- 46) A. Bertolino, G. Arciero, V. Rubino, V. Latorre, M. De Candia, V. Mazzola, G. Blasi, G. Caforio, A.R. Hariri, B. Kolachana, M. Nardini, D.R. Weinberger, T.

Scarabino. Variation of human amygdala response during threatening stimuli as a function of 5'HTTLPR genotype and personality style. *Biological Psychiatry* 57(12):1517-1525; 2005.

- 47) G. Blasi, V.S. Mattay, A. Bertolino, B. Elvevåg, J.H. Callicott, S. Das¹, B.S. Kolachana, M.F. Egan, T.E. Goldberg, D.R. Weinberger: "Effect of Catechol-O - methyltransferase val¹⁵⁸met genotype on attentional control" *Journal of Neuroscience* 2005 • 25(20):5038 –5045
- 48) G. Blasi, T. E. Goldberg, T. Weickert, S. Das, P. Kohn, B. Zolnick, A. Bertolino, J. H. Callicott, D. R. Weinberger, V. S. Mattay: "Brain regions underlying response inhibition and interference monitoring and suppression" *Eur J Neuroscience* 2006 Mar;23(6):1658-1664.
- 49) G. Blasi. A. Bertolino: "Imaging genomics and response to treatment with antipsychotics in schizophrenia. *NeuroRx* 2006 Jan;3(1):117-30.
- 50) A. Bertolino, G. Blasi, V. Latorre, V. Rubino, A. Rampino, L. Sinibaldi, G. Caforio, V. Petruzzella, A. Pizzuti, T. Scarabino, M. Nardini, D.R. Weinberger, B. Dallapiccola: Additive effects of genetic variation in dopamine regulating genes on working memory cortical activity in human brain. *Journal of Neuroscience*, 2006 Apr 12;26(15):3918-22.
- 51) A. Bertolino, V. Rubino, F. Sambataro, G. Blasi, V. Latorre, L. Fazio, G. Caforio, V. Petruzzella, B. Kolachana, A. Hariri, A. Meyer-Lindenberg, M. Nardini, D.R. Weinberger, T. Scarabino. Prefrontal-hippocampal coupling during declarative memory is modulated by COMT Val¹⁵⁸Met genotype. *Biological Psychiatry*, 2006;60:1250–1258.
- 52) G. Blasi, A. Bertolino: "The use of functional imaging to evaluate the neurobiology of putative schizophrenia susceptibility genes". *Advances in Schizophrenia and Clinical Psychiatry*, 2006, 2 (4): 128-135.
- 53) A. Bertolino, G. Caforio, V. Petruzzella, V. Latorre, V. Rubino, S. Dimalta, A. Torraco, G. Blasi, R. Quartesan, V.S. Mattay, J.H. Callicott, D.R. Weinberger, T. Scarabino: "Prefrontal dysfunction in schizophrenia controlling for COMT val¹⁵⁸met genotype and working memory performance". *Psychiatry Research: Neuroimaging*, 2006 Oct 30;147(2-3):221-6.
- 54) S. Marengo, A. Bertolino, D.R. Weinberger. In vivo NMR measures of NAA and the neurobiology of schizophrenia. *ADV EXP MED BIOL* 576: 227-240 2006.
- 55) F. Sambataro, S. Dimalta, T. Scarabino, A. Di Giorgio, P. Taurisano, G. Blasi, M. Nardini, A. Bertolino: "Preferential responses in amygdala and insula during presentation of facial contempt and disgust". *European Journal of Neuroscience*, 2006 Oct;24(8):2355-62.

- 56) F Esposito, A Bertolino, T Scarabino, V Latorre, G Blasi, T Popolizio, G Tedeschi, S Cirillo, R Goebel, F Di Salle: Independent Component Model of the Default-mode Brain Function: Assessing the Impact of Active Thinking. *Brain Research Bulletin*, 2006 Oct 16;70(4-6):263-9.
- 57) G. Blasi, T.E. Goldberg, B. Elvevåg, R. Rasetti, A. Bertolino, J. Cohen, G. Alce, B. Zolnick, D.R. Weinberger, V.S. Mattay: "Differentiating control and conflict management within attentional processing". *Eur J Neurosci*. 2007 Jan;25(2):594-602.
- 58) F Esposito, A Bertolino, T Scarabino, V Latorre, G Blasi, T Popolizio, G Tedeschi, S Cirillo, R Goebel, F Di Salle: Independent Component Model of the Default-mode Brain Function: Assessing the Impact of Active Thinking. *Brain Research Bulletin*, 2006 Oct 16;70(4-6):263-9
- 59) M Altamura, B Elvevåg, G Blasi, A Bertolino, JH Callicott, DR Weinberger, VS Mattay, TE Goldberg: "Dissociating the Effects of Sternberg Working Memory Demands in Prefrontal Cortex." *Psychiatry Research: Neuroimaging*, 2007 Feb 28;154(2):103-14.
- 60) A Bertolino, G Caforio, G Blasi, A Rampino, L Sinibaldi, S Douzgou, M Nardini, DR Weinberger, B Dallapiccola. COMT Val158Met predicts negative symptoms response to treatment with olanzapine in schizophrenia. *Schizophrenia Research*, 2007; 95: 253–255.
- 61) V Rubino, G. Blasi, V Latorre, L Fazio, I D'Errico, V Mazzola, G Caforio, M Nardini, T Popolizio, A Hariri, G Arciero, A. Bertolino: "Activity in medial prefrontal cortex during cognitive evaluation of threatening stimuli as a function of personality style." *Brain Research Bulletin*, 2007; Sep 28;74(4):250-7.
- 62) Y. Zhang, A. Bertolino, L. Fazio, G. Blasi, A. Rampino, R. Romano, ML Lee, T. Xiao, A. Papp, D. Wang, W. Sadee: "Polymorphisms in human dopamine D2 receptor gene affect gene expression, splicing, and neuronal activity during working memory". *Proc Natl Acad Sci U S A*. 2007 Dec 18;104(51):20552-7. Epub 2007 Dec 11.
- 63) A. Bertolino, A. Di Giorgio, G. Blasi, F. Sambataro, G. Caforio, L. Sinibaldi, V. Latorre, A. Rampino, P. Taurisano, L. Fazio, R. Romano, S. Douzgou, B. Kolachana, M. Nardini, D.R. Weinberger, B. Dallapiccola: "Epistasis between dopamine regulating genes identifies a non-linear response of the human hippocampus during memory tasks". *Biological Psychiatry*, 2008, August 1, 64 (3): 226-234
- 64) A Di Giorgio, G Blasi, F Sambataro, A Rampino, A Papazacharias, F Gambi, R Romano, G Caforio, M Rizzo, V Latorre, T Popolizio, B Kolachana, JH Callicott, M Nardini, DR Weinberger, A. Bertolino. Association of the SerCys DISC1 polymorphism with human hippocampal formation gray matter and function during memory encoding. *Eur J Neurosci* 2008 Nov;28(10):2129-36

- 65) R Zanardi, B Barbini, D Rossini, A Bernasconi, F Fregni, F Padberg, S Rossi, A Wirz-Justice, M Terman, K Martiny, G Bersani, AR Hariri, L Pezawas, JP Roiser, A Bertolino, G Calabrese, L Magri, F Benedetti, A Pontiggia, A Malaguti, E Smeraldi, C Colombo. New perspectives on techniques for the clinical psychiatrist: Brain stimulation, chronobiology and psychiatric brain imaging. *Psychiatry Clin Neurosci*. 2008 Dec;62(6):627-37.
- 66) A. Bertolino, L. Fazio, G. Caforio, G. Blasi, A. Rampino, R. Romano, A. Di Giorgio, P. Taurisano, A. Papp, J. Pinsonneault, D. Wang, M. Nardini, T. Popolizio, W. Sadee. Functional variants of the dopamine receptor D2 gene modulate prefronto-striatal phenotypes in schizophrenia. *Brain*. 2009 Feb;132(Pt 2):417-25. Epub 2008 Oct 1.
- 67) G Blasi, AH Hariri, G Alce, P Taurisano, F Sambataro, A Bertolino, DR Weinberger, VS Mattay. Preferential amygdala reactivity to the negative assessment of neutral faces. *Biol Psychiatry*. 2009 Nov 1;66(9):847-53. Epub 2009 Aug 26.
- 68) A Bertolino, L Fazio, A Di Giorgio, G Blasi, R Romano, P Taurisano, G Caforio, L Sinibaldi, G Ursini, T Popolizio, E Tirota, A Papp, B Dallapiccola, E Borrelli, W Sadee. Genetically determined interaction between the dopamine transporter and the D2 receptor on prefronto-striatal activity and volume in humans. *Journal of Neuroscience* January 28, 2009 • 29(4):1224 –1234
- 69) G Blasi, P Taurisano, A Papazacharias, G Caforio, R Romano, L Lobianco, L Fazio, A Di Giorgio, V Latorre, F Sambataro, T Popolizio, M Nardini, VS Mattay, DR Weinberger, A Bertolino. Non-linear response of the anterior cingulate and prefrontal cortex in schizophrenia as a function of variable attentional control. *Cereb Cortex*. 2010 Apr;20(4):837-45. Epub 2009 Jul 24.
- 70) A. Di Giorgio, F. Sambataro, A. Bertolino. Functional Imaging as a Tool to Investigate the Relationship between Genetic Variation and Response to Treatment with Antipsychotics. *Current Pharmaceutical Design*, 2009, 15, 2560-2572
- 71) S Huffaker, J Chen, KK Nicodemus, F Sambataro, F Yang, VS Mattay, BK Lipska, TM Hyde, J Song, D Rujescu, I Giegling, K Mayilyan, A Soghoyan, G Caforio, A Bertolino, A Meyer-Lindenberg, J Chang, M Egan, TE Goldberg, JE Kleinman, B Lu, DR Weinberger. A novel, primate-specific brain isoform of KCNH2: Role in hippocampal biology, neuronal repolarization, cognition, and association with schizophrenia. *Nature Medicine*, 2009 May;15(5):509-18. Epub 2009 May 3
- 72) A Bertolino, G Blasi: The genetics of schizophrenia. *Neuroscience*. 2009 Nov 24;164(1):288-99. Epub 2009 Apr 22.
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