

Biosketch



Andrea de Bartolomeis MD, PhD

Biosketch and full CV

Andrea de Bartolomeis MD, PhD. is Associate Professor of Psychiatry, Director of the Section of Psychiatry, Director of the Clinical Section of Psychiatry and Psychology and Chief of the Laboratory of Molecular Psychiatry at Department of Neuroscience, University School of Medicine of Napoli Federico II and Director of the Residency Program in Psychiatry

He is the Director the of Clinical Section of Psychiatry and Psychology and Chief of the Outpatient Clinics for Treatment Resistant Psychosis

Andrea de Bartolomeis received his medical degree and his residency training in psychiatry at the University of Naples Federico II, Italy.

He completed his postdoctoral training as recipient of Fogarty Fellowship in psychopharmacology and molecular pathophysiology of schizophrenia with NIMH in Bethesda MD (USA) first at Clinical Neuroscience Branch (1989-1992) and then at Experimental Therapeutics Branch (1993-1995) where he contributed to develop a novel method for quantitation of synaptic dopamine *in vivo* in primates, using PET and microdialysis, simultaneously. This method was instrumental for the first demonstration *in vivo* by PET and ¹¹C-raclopride of enhanced release of dopamine after amphetamine challenge in striatum of schizophrenia patients compared to normal controls.

He has been Visiting scientist at Neuroendocrinology Branch of NIMH, Bethesda, MD, USA, and Guest scientists at NIMH ETB and Anxiety Mood Disorder Program in several occasions from 1995 to 2000, for collaborating projects.

In 1998, he received from the University of Naples a Ph.D. in Methodology of Communication Science. II.

The research interest of Andrea de Bartolomeis includes: the molecular pathophysiology of psychosis, CNS gene expression modulation by psychotropic

He has been principal investigator or co-investigator on several research and training grants as well on clinical trials from public and drug company sources.

Andrea de Bartolomeis is a member of the *American Society for Neuroscience, International Society for Schizophrenia Research, New York Academy of Sciences, Italian Society of Neuroscience, Italian Society of Psychopathology, European Collegium of Neuro psychopharmacology, International Society of Bipolar Disorders*. He has been elected in the board of directors of the *Italian Society for Neuroscience for the years 2012-2014, Italian Chapter of International Bipolar Disorders*

He has authored articles, book chapters, and published abstracts on molecular mechanisms of antipsychotics as well as on schizophrenia pathophysiology and molecular imaging of dopaminergic system.

He has published his works in:

Nature Medicine, Neuron,, Nature Translational Psychiatry Proceedings of National Academy of Sciences, Biological Psychiatry, Schizophrenia Research, Neuropsychopharmacology, Nature Translational Psychiatry, Molecular Brain Research, Synapse, Cerebral Blood flow and Metabolism, Neuroreport, Current Drug Design, European Neuropsychopharmacology, Annals of New York Academy of Sciences, Neuroscience, Molecular Neurobiology, Psychiatry Research, Journal of Psychiatry Research, American Journal of Psychiatry.

His recent research is focusing on antipsychotics impact on postsynaptic density scaffolding proteins and molecular mechanisms of antipsychotics action as well as on clinical implication of functional neuro-anatomy of antipsychotic treatment resistant schizophrenia. A novel strategy based on network profiling *in silico* experiments and molecular imaging gene expression analysis has been developed to better define the multimodal action of antipsychotics. A role of Homer protein has been described in multiple animal model of D2R blockade /occupancy, suggesting a role for this gene in antipsychotic mechanism of action and motor side effects.

The clinical research of Andrea de Bartolomeis is focused on the characterization and functional underpinnings of antipsychotics' response and on the profiling of treatment resistant psychosis. The neuroanatomy correlates, the cognitive profiling, and molecular modeling of treatment resistant psychosis are studied with multimodal approach.

Full CV (included bibliography of peer reviewed international articles until 2018)

First and Last name and Degree(s).	Andrea de Bartolomeis MD, PhD, Psychiatrist. Associate Professor of Psychiatry
Title	Director Section of Psychiatry Director Clinical Unit of Psychiatry and Psychology Director Residency Program in Psychiatry Chief Laboratory of Molecular Psychiatry Chief Outpatient clinics for Treatment Resistant Psychiatric Disorders Acting Chief Section on Consultation Psychiatry and Psychotherapy School of Medicine University of Naples "Federico II" Previous Fogarty Scientist at National Institute of Mental Health NIH, Bethesda, Maryland USA
Address(es)	Work: Section of Psychiatry Department of Neuroscience, Reproductive Science and Odontostomatology Laboratory of Molecular Psychiatry and Unit of Treatment Resistant Disorders University of Naples Federico II, Building 18, Third Floor, Via Pansini 5, 80131, Napoli, Italy
Telephone(s)	+39 0817463673
Fax(es)	+39 081-7462378
E-mail	andrea.debartolomeis@unina.it Alternative email addresses: adebarto@unina.it andrea.debartolomeis@gmail.com
Nationality	Italian
Date of birth	November 22 nd , 1958
Gender	Male
Occupation	Psychiatry, Clinical Psychopharmacology, Molecular Psychiatry, Translational Medicine in Psychiatry. Italian Medical License number SA 6425

- 2013 -at present: Director University Section of Psychiatry
- 2017 –at present: Director Clinical Unit of Psychiatry and Psychology
- 2014- at present: Director of Residency Program in Psychiatry
- 2010 – at present Coordinator Residency Program in Psychiatry at University School of Medicine Federico II Napoli.
- 2010-2012 Acting Director Section on Psychotherapy
- 2006-at present. Associate Professor Section of Psychiatry, Dept. of Neuroscience, University of Naples Federico II.

- 2001-at present. Chief, Laboratory of Molecular Psychiatry and Head of Drug Treatment Resistant Disorders in Psychiatry.
- 2001-2006 Assistant Professor Section of Psychiatry University of Naples Federico II,
- 1995-2000. Attending Psychiatrist at Salerno Community Mental Health Unit National Mental Health
- 1992-1995. Fogarty Visiting Fellow Experimental Therapeutics Branch NIH, NIMH, Bethesda MD.
- 1990-1992. Fogarty Visiting Fellow Clinical Neuroscience Branch NIH, NIMH, Bethesda MD
- 1989 -Visiting Fellow Clinical Neuroscience Branch
- 1988- Visiting Fellow Clinical Psyconeuroendocrinology Branch
- 1998: Ph.D. in Methodology of Communication Sciences
- 1990 Specialty and Board Certification in Psychiatry
- 1986: Degree in Medicine Magna cum Laude, University School of Medicine Federico II Napoli, Italy
- 1980-1988: Internship in Biochemistry at University of Naples Federico II
- 1976 High school Degree (Liceo Classico) with full honors
- 1976. High School Liceo Tasso Prize for Young High School Researchers

Education and training

Preclinical

- Molecular Imaging (Quantitative autoradiography, QUAR,
- In Situ Hybridization ISSH)
- Positron Emission Tomography,
- Drug-Receptor interaction modeling,
- Surgery of small animal,
- Gene expression analysis,
- Rodent and Primates microdialysis,
- Computer –assisted
- Quantitative Image Analysis.
- Bioinformatics of gene expression.
- Proteome analysis.
- Behavioral modeling for psychotropic drugs
- Dr. de Bartolomeis has been extensively trained in animal research at National Institute of Mental Health, NIH, Bethesda MD USA

Clinical

- Clinical trials with antipsychotics and antidepressants.
- Clinical assessment of Psychiatry Disorders in Research setting.
- GCP implementation in research setting.
- Psychiatric treatments international guidelines implementation Prof. de Bartolomeis has been involved as Principal Investigator or co-investigator or study coordinator in several clinical trials academy or government supported or pharmaceutical company sponsored.
- He has been intensively trained in GCP, and obtained formal certification, as well he has participated regularly to meetings for trial initiation and procedures follow-up.
- During his fellowship at NIMH (Bethesda MD) he has regularly participate to GPC meetings and in clinical rounds of patients involved in phase 3 clinical trials.

- In the last five years he has been involved in the following industry sponsored studies:
 1. 2009-2011 5HT1 b ligand sponsored trial for cognition enhancement in schizophrenia (Lundbeck)
 2. 2010-2012 Quetiapine augmentation in patient affected by Major Depression and with sub-optimal response to canonical antidepressant treatment (Astra –Zeneca)
 3. 2011- 2014 Bitopertine augmentation for negative symptoms in schizophrenia
 4. 2011-2014 Bitopertine augmentation for sub-optimal response to antipsychotics.

Present preclinical and clinical research activity

- Andrea de Bartolomeis' recent research is focusing on antipsychotics impact on postsynaptic density scaffolding proteins and molecular mechanisms of antipsychotics. A novel strategy based on network profiling *in silico* experiments and molecular imaging gene expression analysis has been developed to better define the multimodal action of antipsychotics on multiple genes of a specific signal transduction system
- At clinical level the major interest of Prof Andrea de Bartolomeis is the clinics, the pathophysiology and the therapy of treatment resistant psychiatric disorders, with emphasis on psychosis.

Prof Andrea de Bartolomeis is involved in teaching multiple courses at University School of Medicine Federico II. The major class is Psychiatry.

He is also the director of the residency program in Psychiatry supervising between 24/30 residents each year.

He is involved in the committee for the development of the core curricula of Psychiatry at University School of Medicine Federico II. Andrea de Bartolomeis has been speaker on/ or has organized more than 300 CME courses on multiple aspects of clinical psychiatry, biological psychiatry and neuropsychopharmacology

Teaching

Member of the Editorial Board of the following journals

1. Current Signal Transduction
2. International Journal of Emergency Mental Health and Human Resilience
3. Journal of Schizophrenia Research
4. Rivista Italiana di Psichiatria
5. Journal of Schizophrenia Disorders and Therapy
6. Journal of Psychiatry and Brain Science

Editorial activity

Referee ad hoc for the following peer review Journals:

1. Schizophrenia Research,
2. Biological Psychiatry
3. Journal of Affective Disorders,
4. Journal of Psychopharmacology,
5. Psychiatry research,
6. Neuropsychiatry (London),
7. Neuroscience,
8. Therapeutics advances in Psychopharmacology,
9. Journal of Psychiatry and Neuroscience,
10. Progress in Biological Psychiatry and Neuropsychopharmacology
11. Plos One
12. Frontiers in Psychiatry
13. Neuroscience Letters
14. Biobehavioral and Neuroscience Reviews
15. Molecular Psychiatry
16. Behavioral Pharmacology
17. Frontiers in Behavioral Neuroscience
18. Frontiers in Psychiatry
19. Frontiers in Human Behavior
20. Frontiers in neuropsychopharmacology
21. CRO
22. Frontiers in Neuropsychopharmacology
23. Journal of Translational Neuroscience
- 24 European Neuropsychopharmacology

Andrea de Bartolomeis is a member of the *American Society for Neuroscience*, *International Society for Schizophrenia Research*, *New York Academy of Sciences*, *Italian Society of Neuroscience*, *Italian Society of Psychopathology*, *European Collegium of Neuro psychopharmacology*, *International Society of Bipolar Disorders*. *He has been elected in the board of directors of the Italian Society for Neuroscience for the years 2012-2014; in the Board of Italian Chapter of International Bipolar Disorders (2012-ongoing); in the Board*

Bibliography

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