

PERSONAL INFORMATION

Giulio Pergola



- Investigator  
NETS lab – Networks, Environment, and Translational geneticS  
Lieber Institute for Brain Development (LIBD), 855 N Wolfe St., 21205 Baltimore, MD (USA)
- Associate Professor in Neuropsychology and Cognitive Neuroscience  
Department of Translational Biomedicine and Neuroscience  
University of Bari Aldo Moro (UNIBA), Piazza Giulio Cesare 11, 70124 Bari, Italy

[https://www.researchgate.net/profile/Giulio\\_Pergola2](https://www.researchgate.net/profile/Giulio_Pergola2)

Scopus metrics: 73 articles; 1,653 citations; 22 H-index

Work experience

Dates	Since October 2022
Occupation or position held	<b>Investigator</b>
Main activities and responsibilities	Research
Name and address of employer	<b>LIBD</b>
Type of business or sector	No-profit Research Institute
Dates	Since August 2021
Occupation or position held	<b>Associate Professor in Physiological Psychology and Psychobiology</b>
Main activities and responsibilities	Research, lectures, management. Appointments: <ul style="list-style-type: none"> <li>- <b>Member, Directory Board of the Residency Program in Psychiatry</b> (November 2021 -)</li> <li>- <b>Faculty member, National Doctoral School in Artificial Intelligence</b> (May 2021 -)</li> <li>- <b>Scientific Director, Group of Psychiatric Neuroscience</b> (January 2021 -)</li> <li>- <b>Faculty member of the Doctoral School in Applied Neuroscience</b> (May 2019 -)</li> <li>- <b>BIND Lab Head, Brain Imaging, Networks, and Data mining</b> (January 2016 -)</li> </ul>
Name and address of employer	Dipartimento di Biomedicina Traslazionale e Neuroscienze, <b>UNIBA</b>
Type of business or sector	University
Dates	November 2018 – July 2021
Occupation or position held	<b>Tenure-track Assistant Professor in Physiological Psychology and Psychobiology</b> <b>Marie Curie Visiting Scientist</b>
Main activities and responsibilities	Research, lectures
Name and address of employer	Dipartimento di Scienze Mediche di Base, Neuroscienze e Organi di Senso, <b>UNIBA</b>
Visiting Institution	LIBD
Type of business or sector	Academic Research
Dates	May – September 2018
Occupation or position held	<b>Neuroimaging Consultant</b>
Main activities and responsibilities	Research
Name and address of employer	<b>UNIBA</b>
Type of business or sector	University
Dates	May 2013 – May 2018
Occupation or position held	<b>Assistant Professor in Psychiatry</b>
Main activities and responsibilities	Research, lectures. Official appointments: <ul style="list-style-type: none"> <li>- <b>Member of the Directory Board of the Residency Program in Psychiatry</b> (2016-2018).</li> <li>- <b>Faculty Degree Director: Techniques for Psychiatric Rehabilitation</b> (March 2016 – March 2018).</li> <li>- <b>Technical advisor, magnetoencephalography lab</b> (September 2014 – October 2016).</li> </ul>
Name and address of employer	<b>UNIBA</b>
Type of business or sector	University

Dates	February 2012 – April 2013
Occupation or position held	<b>Postdoctoral fellow</b>
Main activities and responsibilities	Research
Name and address of employer	Cognitive Neuroscience Sector, International School for Advanced Studies ( <b>SISSA</b> ) Via Bonomea 265, 34136 Trieste, Italy
Type of business or sector	Postgraduate School
Dates	September 2010 – June 2011
Occupation or position held	<b>Research associate</b>
Main activities and responsibilities	Research
Name and address of employer	Department of Neuropsychology, Ruhr-Universität Bochum ( <b>RUB</b> ) Universitätstr. 150, 44801 Bochum, Germany
Type of business or sector	University
Dates	January 2008 – August 2010
Occupation or position held	<b>Marie Curie Early Stage Researcher</b>
Main activities and responsibilities	Research
Name and address of employer	Novobrain Programme, FP6 (Marie Curie Actions), <b>RUB</b>
Type of business or sector	University

## Education and training

Date	November 2020
Title of qualification awarded	<b>Italian Habilitation for Full Professorship</b> in Physiological Psychology and Psychobiology
Principal skills involved	Research, Teaching, Academic achievements
Organisation providing the title	Italian Ministry of Education, University, and Research
Dates	November 2011
Title of qualification awarded	<b>PhD in Neuroscience</b> , Inst. Cognitive Neuroscience, Dept. Neuropsychology ( <b>RUB</b> ). Dissertation: <i>"Involvement of the human thalamus and its cortical network in recognition memory and recall"</i>
Principal subjects covered	Research
Organization providing education	International Graduate School of Neuroscience (IGSN), <b>RUB</b> . Supervisor: Prof. Boris Suchan.
Level in international classification	Magna cum Laude
Dates	July 2007
Title of qualification awarded	<b>M. Sc. in Biology</b>
Principal subjects covered	Thesis in the field of Morphometry. Thesis supervisors: Prof. V. Pesce Delfino; Dr. E. Vacca.
Organization providing education	Faculty of Biology, <b>UNIBA</b>
Level in national classification	Grade 110/110 with honors

## Grants

Dates	December 2022 – November 2025
Grant	<b>PNRR Extended Partnership for Artificial Intelligence</b>
Role	CoPI; PI Prof Donato Malerba
Amount	Total for UNIBA: M€ 10.5 - <b>Giulio Pergola: ~ k€ 220</b>
Description	Fostering human-AI symbiosis requires integrating typically human features with AI strengths and limitations. This project develops Symbiotic AI (SAI) pursuing three main goals: 1) enabling SAI system design with principles and methodologies enhancing human-computer interface; 2) enabling SAI development through both data-driven and model-driven approaches to endow AI systems with human understanding capabilities and improve AI systems' performance with user input; 3) enabling SAI applicability by improving the understandability of AI systems, enhancing the acceptability of SAI systems, supporting the sustainability of SAI, and providing the necessary infrastructure.
Organization providing the grant	<b>Italian Ministry of University and Research</b>

Dates	December 2022 – November 2025
Grant	<b>PNRR Extended Partnership for Neuroscience</b>
Role	Team member; PI Prof Alessandro Bertolino
Amount	Total for UNIBA: M€ 8.6 - <b>Giulio Pergola: ~ k€ 390</b>
Description	My unit investigates the risk for major psychiatric disorders with functional MRI and MEG across mood and psychosis disorders. The project aims to identify common and distinct neuroimaging genetics of bipolar disorder and schizophrenia and predict differential diagnosis using multimodal neuroimaging.
Organization providing the grant	<b>Italian Ministry of University and Research</b>
Dates	September 2022 – February 2026
Grant	<b>PNRR National Centers</b>
Role	Team member; PI Prof Antonio Zoccoli
Amount	Total: M€ 320 - <b>Giulio Pergola: ~ k€ 120</b>
Description	The Center will carry out R&D activities to engage and promote the best interdisciplinary expertise in science and engineering, enabling substantial and sustainable innovations in fields ranging from basic research to computational and experimental sciences for climate, environment, and space, from the study of matter and life to medicine, from materials technologies to information systems and devices.
Organization providing the grant	<b>Italian Ministry of University and Research</b>
Dates	July 6 <sup>th</sup> 2022
Grant	<b>VINCI</b>
Role	PI - Partnership with the University of Toulouse, France
Amount	<b>k€ 76</b>
Description	PhD scholarship funding: " <i>Role of inter-individual variability in the clinical outcome of thalamic pathologies</i> ". The aim is to profile individuals by clustering them based on thalamocortical connectivity and validate the clusters by predicting cognitive deficits following thalamic lesions.
Organization providing the grant	<b>Italian-French University</b>
Dates	May 2022
Grant	<b>PNRR Doctoral Scholarships</b>
Role	PI – Partnership with the company "Exprivia"
Amount	<b>k€ 86</b>
Description	PhD scholarship funding: " <i>Artificial Intelligence, Genomics, and Transcriptomics</i> ". This PhD project aims to translate postmortem brain transcriptomics into neuroimaging and behavioral predictions. Exprivia will be involved in developing an online interactive platform of SNP effects on fMRI data.
Organization providing the grant	<b>Italian Ministry of University and Research</b>
Dates	April 6 <sup>th</sup> 2022
Grant	<b>RIPARTI</b>
Role	PI - Partnership with the company "Eurisko"
Amount	<b>k€ 38</b>
Description	Eighteen-month research project: " <i>Role of inter-individual variability in the clinical outcome of thalamic pathologies</i> ". This is another scholarship on the same project reported above ("VINCI").
Organization providing the grant	<b>Apulian Regional Government</b>
Dates	April 2022 – April 2025
Grant	<b>National Interest Research Projects (PRIN 2020)</b>
Role	coPI; PI Prof. Benedetto Vitiello
Amount	Total: € 710,369 - <b>Giulio Pergola: k€ 186</b>
Description	The project, entitled: " <i>Hot for genes – the role of brain gene expression in identifying antisocial developmental trajectories and malleable risk factors for preventive interventions</i> ", aims to associate genes with personality traits, as previously done with psychiatric disorders. We will use age-specific eQTLs to predict gene expression in the largest inmate cohort recruited to date.
Organization providing the grant	<b>Italian Ministry of University and Research</b>

Dates	February 2022 – October 2023
Grant	<b>Horizon Europe Seeds</b>
Role	PI
Amount	<b>k€ 50</b>
Description	The project, entitled: “ <i>Social health – investigating the nature of interpersonal relationships and the related effects on mental health</i> ”, will generate preliminary data to discover genetic pathways associated with social behavior in humans and their potential effects on mental health.
Organization providing the grant	<b>UNIBA</b>
Dates	August 2019 – February 2023
Grant	<b>National Interest Research Projects (PRIN 2017)</b>
Role	coPI; PI Prof. Filippo Drago
Amount	Total: € 726,490 - <b>Giulio Pergola: k€ 80</b>
Description	The project, entitled: “ <i>Dopamine - dysbindin genetic interaction: a multidisciplinary approach to characterize cognitive phenotypes of schizophrenia and develop personalized treatments</i> ”, aimed to characterize interactions between dysbindin and proteins in dopaminergic transmission pathways at a genetic level, covering experiment animal and human translational genetics approaches.
Organization providing the grant	<b>Italian Ministry of University and Research</b>
Dates	July 2019 – October 2022
Grant	<b>NIH R21 grant</b>
Role	coPI; PI Prof. Daniel R. Weinberger
Amount	<b>k\$ 275</b>
Description	This project aimed to collect preliminary data for a follow-up application: “ <i>Temporal coherence of Schizophrenia risk genes in a critical brain circuit: It's about time</i> ”. I applied as a coPI and then became a critical contributor because my salary was covered 100% by other grants.
Organization providing the grant	<b>NIH</b>
Dates	July 2019 – June 2023
Grant	<b>Marie Skłodowska Curie Global Fellowship</b>
Role	PI
Amount	<b>€ 262,269</b>
Description	Two-year visiting at the LIBD and one-year incoming phase at UNIBA for the project: “ <i>Identification of Brain Developmental Gene Co-expression Networks to understand Risk for Schizophrenia</i> ”. This prestigious fellowship granted me the opportunity to investigate how gene co-expression networks change over the lifespan across multiple brain regions examined postmortem.
Organization providing the grant	<b>Marie Skłodowska-Curie Actions</b>
Dates	January 2015 – December 2016
Grant	<b>Roche Collaboration Grant</b>
Role	PI
Amount	<b>kCHF 200</b>
Description	Project title: “ <i>Gene co-expression networks as roadmap for genotype to phenotype mapping in schizophrenia</i> ”. This partnership aimed to identify potential genetic scores associated with treatment response via the mediation of gene co-expression networks.
Organization providing the grant	<b>Hoffmann-La Roche Ltd.</b>
Dates	September 2012 – April 2013
Grant	<b>Young SISSA scientist</b>
Role	PI
Amount	<b>k€ 12</b>
Description	The project “ <i>Neural correlates of acquisition and extinction of aggressive behavior</i> ” aimed to study brain activity via fMRI during an aggression task using a grip strength measure response.
Organization providing the grant	<b>SISSA</b>

## Awards

Dates	2018
Award	<b>Publons Peer Review Award 2017</b>
Description	Top 1% of peer reviewers in multidisciplinary fields
Organisation providing the award	Publons
Dates	November 18 <sup>th</sup> 2017
Award	<b>SIPF Giovani</b>
Description	Best oral presentation: <i>“Co-expression of schizophrenia genes in the thalamus and prefrontal cortex is associated with thalamo-prefrontal connectivity during attentional control”</i> .
Organisation providing the award	Società Italiana di Psicofisiologia e Neuroscienze Cognitive
Dates	April 24 <sup>th</sup> 2017
Award	<b>Seal of Excellence</b>
Description	Awarded for scoring 91.8 % in the Global Fellowship Program
Organization providing the award	Marie Skłodowska-Curie actions
Dates	March 25 <sup>th</sup> 2017
Award	<b>ICOSR Young Investigator Award</b>
Description	Travel award to attend the 16 <sup>th</sup> International Congress on Schizophrenia Research (waiver for the registration fee and a travel stipend of \$ 1,000). Oral presentation entitled: <i>“Bromocriptine Challenge Affects Working Memory Processing in Humans Depending on DRD2-Related Genes”</i> .
Organization providing the award	Schizophrenia International Research Society
Dates	October 23 <sup>rd</sup> 2014
Award	<b>BIFONDS Travel Grant</b>
Description	Collaboration with the Dept. of Neuropsychology of RUB entitled: <i>“Novel procedures to investigate learning-induced connectivity changes in resting state MRI”</i> , for a total amount of € 1,600.
Organization providing the award	Boehringer-Ingelheim FONDS
Dates	March 17 <sup>th</sup> 2014
Award	<b>Fondi Ateneo 2012 CUP H93G13000170005</b>
Description	The funding covered the costs of the project entitled: <i>“GRIN2B genetic variation is associated with cerebrovascular flow during working memory tasks”</i> , for a total amount of € 3,300.
Organization providing the award	UNIBA
Dates	July 18 <sup>th</sup> 2011
Award	<b>IBRO Alumni Poster Prize</b> . Poster title: <i>“Encoding and recall of picture associations activates multiple thalamo-cortical networks”</i> .
Description	96 IBRO alumni competed for the Poster Prize. Total amount of the award: € 250.
Organization providing the award	International Brain Research Organization
Dates	October 2008 – September 2010
Grant	<b>Member of the DAAD network: “Neurocognition: Foundations and Clinical Processes”</b> .
Description	The grant covered travel and full-board expenses to attend three annual Autumn Schools in Montegrotto (Italy), Izmir (Turkey), and Delmenhorst (Germany).
Organization providing the grant	Deutscher Akademischer Austausch Dienst (German Academic Exchange Service)
Dates	September 2008
Grant	<b>Summer School Attendance: “The Neuroscience of Memory: Methods and Concepts to Investigate Our Internal Representation of the World”</b> - Bangor, Wales, UK
Description	PENS partially supported Summer School. Full-board expenses.
Organization providing the grant	Wales Institute of Cognitive Neuroscience (WICN)

Dates	May 2008 – November 2011
Grant	<b>Member of the RUB Research School</b>
Description	Free attendance of workshops, soft skill courses, scientific meetings, plus an additional research allowance of 3,000 EUR and final PhD certificate of curriculum completion.
Organization providing the grant	RUB Research School, financed by the Excellence Initiative of the DFG (German Research Council).
<b>Invited talks</b>	<p>June 2022 – Italian Society of Psychopathology meeting – Rome (Italy) <i>The role of genes in schizophrenia risk during brain development</i></p> <p>April 2022 – Lieber Institute for Brain Development – Baltimore, MD (USA) <i>Gene co-expression across brain regions and cell types</i></p> <p>February 2022 – ARSEP MRI WORKSHOP – Thalamus and Multiple Sclerosis – Virtual Workshop <i>Flexible and specific contributions of thalamic subdivisions to human cognition</i></p> <p>March 2021– Bordeaux neurocampus (France) – Virtual Seminar <i>Polygenic risk for psychiatric disorders and postmortem co-expression provide different perspectives on the relationship between genetic variation and cognition</i></p> <p>February 2021– Italian society of psychopathology – Virtual Symposium <i>Variation in symptom dimensions stratifies patients with schizophrenia by genetic risk</i></p> <p>May 2019 – Society of Biological Psychiatry meeting – Chicago, IL (USA) <i>Systems-level correlates of the co-expression of schizophrenia risk genes</i></p> <p>June 2018 – 63° Congresso della Società Italiana di Neurofisiologia Clinica – Bari (Italy) <i>Functional brain analysis in psychiatric disorders: limitations and strengths of magnetoencephalography</i></p> <p>April 2018 – SIBBM WORKSHOP: New Frontiers in Epitranscriptomics – Bari (Italy) <i>The role of gene expression in schizophrenia</i></p> <p>February 2018 – Italian Society of Psychopathology meeting – Rome (Italy) <i>Biological pathways implicated in the development of schizophrenia</i></p> <p>February 2018 – IGSN Symposium “New perspectives on the human thalamus” – RUB, Bochum (Germany). <i>The human thalamus from cognition to molecules</i></p> <p>November 2017 – Workshop: “Predictive radiology in precision medicine” – Lausanne University Hospital (Switzerland). <i>Translating molecular profiling into neuroimaging phenotypes</i></p> <p>June 2017 – Donders Institute – Nijmegen (The Netherlands) <i>Gene Co-expression Networks Reveal Pathways of Convergence of Schizophrenia Risk Genes</i></p> <p>June 2017 – Workshop on the mediodorsal thalamic nucleus – Paris (France) <i>Imaging Genetics of the Human Thalamus</i></p> <p>April 2017 – European Psychiatric Association – Florence (Italy) <i>Association of Inter-individual Differences in Imaging Markers with Schizophrenia Phenotypes</i></p> <p>July 2016 – International Conference On Memory 6 – Budapest (Hungary) <i>Variability of thalamic phenotypes is associated with cognition, schizophrenia, and genetics</i></p> <p>May 2016 – Dept. Biological Psychology, Heinrich-Heine Universität Düsseldorf (Germany) <i>How the human thalamus makes a difference</i></p> <p>December 2014 – Hoffmann-La Roche, Basel (Switzerland) <i>Gene co-expression networks as a roadmap for genotype to phenotype mapping in schizophrenia</i></p> <p>December 2014 – “Il paziente e la psicosi: curare, non spegnere” – Torino (Italy) <i>Multiscale study of inter-individual genetic variability in the path from molecules to cognition</i></p> <p>November 2014 – XXII Congresso Nazionale SIPF “Dalle Neuroscienze di base alla Neuroriabilitazione” – Florence (Italy). <i>Compromised neural development in schizophrenia: the interaction of genetic and environmental factors</i></p> <p>November 2014 – Dept. Molecular Psychiatry, Columbia University – New York City (USA) <i>Intermediate phenotypes of schizophrenia in the thalamus and the cortex</i></p> <p>December 2013 – Neurex Meeting: “The Cognitive Thalamus” – Strasbourg (France) <i>Associative memory beyond the medial temporal lobe: many actors on the memory stage</i></p> <p>January 2013 – LEAD Graduate School, Dept. Empirical Educational Research – Tübingen (Germany) <i>Learning beneath the cortex</i></p>

## Scientific events organized

September 2022 – Organizing committee member, Summer School “Moonrise” – Bari (Italy)

Lecture: *Electroencephalography and magnetoencephalography*.

September 2022 – Chair, World Congress of Psychiatric Genetics symposium: “*Novel Approaches to System-Level Brain Function from Assembly Instructions to Mental Health*”. – Florence (Italy).

Discussant: Dr. Daniel R. Weinberger; Speakers; Dr. Alexis Battle, Dr. Panos Roussos, Mr. Joshua Popp. Conference symposium

September 2022 – Chair, “*Perspectives on adolescence: a sensitive period for prediction, intervention, and investigation of novel risk factors within psychosis trajectories*”. Discussant: Dr. Alessandro Bertolino; Speakers; Dr. Joseph Kambeitz, Dr. Sameer Jauhar. Conference in Bari (Italy), > 50 participants

January 2022 – Organizing committee lead member, Thalamic nuclei imaging, segmentation, and applications. Introduction: *What is so hard about the human thalamus? Why it matters and how to find out!* Virtual Workshop, > 300 participants

September 2021 – Chair, “*Taking care of psychosis along the lifespan: the dialogue between scientific research and families*”. Discussant: Dr. Alessandro Bertolino; Speakers; Dr. Fabio Sambataro, Dr. Linda A. Antonucci. Outreach event for patients’ families in Bari (Italy), > 70 participants.

June 2021 – Chair, “*How the brain makes a difference*”. Discussant: Dr. Alessandro Bertolino; Speakers; Dr. Janita Bralten, Dr. Juergen Dukart. Conference in Bari (Italy), > 100 participants

May 2018 – Organizing committee member, Doctorate Day (Scienze Biomolecolari Farmaceutiche e Mediche) – Bari (Italy)

Lecture: *From molecules to behavior: biological paths, neural circuits, and clinical correlates*

July 2013: Organizing committee member, Summer School in Social and COgnitive NEuroscience (SCoNe), SISSA – Trieste (Italy)

Lectures: I. *Introduction to electroencephalography*; II. *Tutorial on design of ERP experiments*

## Other oral presentations

May 2022 – Cell Symposia “The biology of neuropsychiatric disorders” – Sitges (Spain)

*Schizophrenia risk genes converge into shifting co-expression networks across brain development, ageing and brain regions*

April 2022 – Society of Biological Psychiatry meeting – New Orleans, LA (USA)

*Schizophrenia risk genes converge into shifting co-expression networks across brain development, ageing and brain regions*

April 2022 – Schizophrenia International Research Society meeting – Florence (Italy)

*Schizophrenia risk genes converge into shifting co-expression networks across brain development, ageing and brain regions*

November 2021 – Italian Society of Neuropsychology – Modena (Italy)

*Flexible and specific contributions of thalamic subdivisions to human cognition*

April 2019 – Schizophrenia International Research Society meeting – Orlando, FL (USA)

*Translating Transcriptome Data Mining Into Neurobiological and Clinical Readouts*

November 2017 – Italian Society of Psychophysiology meeting – Rome (Italy). *Co-expression of schizophrenia genes in the thalamus and prefrontal cortex is associated with thalamo-prefrontal connectivity during attentional control*. Talk awarded the best conference presentation prize.

## Mentoring

Postdoctoral fellows and MDs, among 14 in total:

Leonardo Fazio, now assistant professor at LUM University (Casamassima, Italy). Co-supervisor

Tiziana Quarto, now assistant professor at the University of Foggia (Italy). Co-supervisor

Linda A. Antonucci, now assistant professor at UNIBA. Co-supervisor

Enrico D’Ambrosio, now assistant professor at UNIBA. Co-supervisor

Pierluigi Selvaggi, now assistant professor at UNIBA. Co-supervisor

Ileana Andriola, now assistant professor at UNIBA. Co-supervisor

Christian Valt, ongoing. Co-supervisor

Christopher J. Borcuk, ongoing. Co-supervisor

PhD students:

Roberta Passiatore, now postdoctoral fellow at UNIBA. Co-supervisor

Giuseppe Stofa, ongoing. Doctoral School in Applied Neuroscience. Co-supervisor

Annalisa Lella, ongoing. Doctoral School in Applied Neuroscience. Supervisor

Leonardo Sportelli, ongoing. Doctoral School in Applied Neuroscience. Supervisor

Alessandra Raio, ongoing. Doctoral School in Applied Neuroscience. Supervisor

Fabiana Rossi, ongoing. National Doctoral School in Artificial Intelligence. Supervisor

Gianluca K. Kikidis, ongoing. Doctoral School in Applied Neuroscience. Supervisor

Antonella Lupo, ongoing. National Doctoral School in Artificial Intelligence. Supervisor

## Teaching

2022-ongoing: *General Psychology*. Master's Degree (M.Sc.) in Medicine (course in English)  
2020-ongoing: *Physiological Psychology*. M.Sc. in Rehabilitation  
2020-2022: *Biological Basis of Behavior*. M.Sc. in Rehabilitation  
2019-ongoing: *Biological Psychology*. Doctoral School in Applied Neuroscience  
2015-ongoing: *Clinical Neurobiology*. M.Sc. in Medical Biotechnologies and Molecular Medicine  
2013-2018; 2020-ongoing: *Principles of Neurophysiology*. Residency Program in Psychiatry  
2013-2017; 2020-ongoing: *Physiological Psychology and Psychobiology*. Bachelor's Degree (B.Sc.) in Techniques for Psychiatric Rehabilitation  
2013-2017: *Physiological Psychology*. B.Sc. in Psychological Sciences and Techniques  
2013-2017: *Physiological Psychology and Psychobiology*. B.Sc. in Professional Education  
2013-14: *Biological Psychopathology*. M.Sc. in Medicine

## Memberships

Since 2021: Schizophrenia International Research Society  
Since 2020: European Scientific Association on Schizophrenia and other Psychoses  
Since 2018: Marie Curie Alumni Association  
Since 2017: Società Italiana di Psicologia Fisiologica e Neuroscienze Cognitive  
Since 2017: Società Italiana di Neuropsicologia  
2010 - 2014: Society for Neuroscience – Regular member.

## Professional service

**Referee** for funding: Marsden foundation (New Zealand); Bergen Research Foundation (Norway); MSCA fellowships (European Union).

**Book proposal reviewer:** Oxford University Press

**Guest Editor:** *Frontiers in Behavioral Neuroscience*

**Reviewing Editor:** *Frontiers in Psychology: Cognition*.

### Public outreach:

European Researchers' Night 2021-2022

Organization of the local chapter of the "Brain Bee International Neuroscience Competition" for high school students at UNIBA (since 2016).

MSCA testimonial – AAAS meeting (February 2019), NAFSA meeting (May 2019) in Washington, DC.

Public outreach event for patients' family associations during the MSCA project FLOURISH.

## Ad hoc reviewer

*Acta Psychiatrica Scandinavica*, **American Journal of Psychiatry**, *Behavioural Brain Research*, *Bioinformatics*, **Biological Psychiatry**, *Biological Psychology*, *BMC Psychiatry*, *Brain and Cognition*, *Brain Structure and Function*, *Cerebral Cortex*, *Cognitive and Behavioural Neurology*, *Cognitive Neuroscience*, *Cognitive Processing*, *Communications Biology*, *Cortex*, *European Neuropsychopharmacology*, *Frontiers in Behavioral Neuroscience*, *Frontiers in Genetics*, *Frontiers in Human Neuroscience*, *Frontiers in Psychology – Cognition*, *Hippocampus*, *Human Brain Mapping*, *International Journal of Psychophysiology*, *Journal of Affective Disorders*, *Journal of Alzheimer's Disease*, *Journal of Cognitive Neuroscience*, **The Journal of Neuroscience**, *Journal of Neuroscience and Clinical Research*, *Journal of Psychiatric Research*, *Journal of Psychiatry and Neuroscience*, *Molecular Genetics and Genomic Medicine*, *Neurocase*, *Neuroimage*, *Neuroimage: Clinical*, **Neurology**, *Neuropsychologia*, *Neuropsychopharmacology*, *Neuroscience*, **Neuroscience and Biobehavioural Reviews**, *PLoS ONE*, *Psychiatry Research: Neuroimaging*, *Psychological Medicine*, *Psychological Research*, **Schizophrenia Bulletin**, *Schizophrenia Research*, **Science Advances**, *Scientific Reports*, *Translational Psychiatry*.

## Personal skills and competences

### Languages

Mother tongue(s)

**Italian**

Other language(s)

**English, German**

Self-assessment: *European level*

### Language

**English**

**German**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	B2	Independent user	C1	Proficient user



Organizational skills and competences	<p><u>Leadership</u>. <b>Scientific Director, Group of Psychiatric Neuroscience (UNIBA); Lab Head, Brain Imaging, Networks, and Data mining (BIND, UNIBA);</b>  <b>Specific training</b> by the European Molecular Biology Organization (Heidelberg, Germany, 2021).  <u>Mentorship</u>. &gt; 30 graduate students, &gt; 30 undergraduate students (RUB, SISSA, UNIBA, LIBD).  <u>Management</u>. Director of the contract: Magnetoencephalography Lab at UNIBA, responsible for 1.6 M€ (2014 - 2016); financial responsibility and report for 15 grants and awards worth &gt; 2 M€.   <u>Networking</u>. German National Coordinator for the Marie Curie Fellows Association (MCFA); organization of scientific events.  <u>Teamwork</u>. Working in interdisciplinary groups all along my career across 5 institutions in 4 countries.</p>
Technical skills and competences	<p><u>Data science</u>. Analysis of transcriptome- and genome-wide datasets (LIBD); Gene co-expression cluster identification via graphs and singular value decomposition (UNIBA, LIBD); Expression quantitative trait loci identification (UNIBA); Decision tree machine learning techniques (UNIBA).  <u>Neuropsychology and Neuroimaging</u>. Use of magnetoencephalography devices (UNIBA); Recording and analysis of structural and functional magnetic resonance images (PhD thesis); Neuropsychological assessment of cognitive skills in patients and healthy subjects (PhD thesis); Use of electroencephalography recording devices, software settings and data analysis (PhD thesis); Lesion-Symptom Mapping of post-acute ischemia in humans (PhD thesis, Internships); Cognitive experiments design and implementation (PhD thesis, postdoc).  <u>Laboratory Skills</u>. Use of contact and non-contact profilometers (Master thesis, UNIBA); Immunocytochemistry including perfusion, brain extraction and slicing in rats (Internship).  <u>Academic Writing</u>. Specific training during the PhD (RUB Research School); &gt; 20 first-author articles.</p>
Social skills and competences	<p><u>Conflict mediation</u>. Seven-year long volunteering in the association Retrouvaille for struggling couples.  <u>Presentation</u>. Specific training during the PhD (RUB Research School, basic and advanced course); extensive experience with Poster and Slide presentation; manager of the Journal Club in the Cognitive Neuroscience Sector of SISSA (2012/2013).  <u>Public speaking</u>. One year-long theatre acting experience, public lectures (&gt; 200 participants).</p>
Computer skills and competences	<p><u>Programming languages</u>. LateX (basic), MatLab (good), Presentation (excellent), Python (basic), R (good).  <u>Graphic software</u>. CorelDraw (very good); Rhinoceros 4.0 (fair); Photoshop (epon Digital Shot Certificate: e-learning course in 2003); IrfanView (good); MatLab Image Processing Toolbox (good).  <u>Statistical Packages</u>. SPSS (excellent).  <u>Imaging software</u>. SPM (MatLab toolbox; excellent), Brain Vision Analyzer 2 (very good).  <u>Bioinformatics</u>. SVS (GoldenHelyx; good), WGCNA (R package; good).</p>
Postgraduate scientific training	<p>2021: <b>Leadership course for Group Leaders</b> (European Molecular Biology Organization).  2018-20: <b>Data Science Specialization</b> (Johns Hopkins University on Coursera): courses 1-8/10.  February 2017: <b>BigDat Winter School on big data analysis</b> – Bari, Italy  September 2016: <b>Elekta MEG introductory course</b> – Helsinki, Finland.  May 2013: <b>Diffusion Tensor Imaging Trackvis workshop</b> – Bibione, Italy.  September 2012: <b>Safety course for MRI</b> – Udine, Italy.  August 2012: <b>Dynamic Causal Modeling course</b> – Paris, France.  September 2010: <b>Autumn school</b> - Neurocognition: Foundations and Clinical Processes – Delmenhorst, Germany  April 2010: <b>SPM 8 Course</b> – Edinburgh, Scotland, UK  October 2009: <b>Lab visit</b> - Faculty of Medicine, dept. Physiology, Izmir, Turkey  October 2009: <b>Autumn school</b> - Neurocognition: Foundations and Clinical Processes – Izmir, Turkey  October 2009: <b>Intensivkurs Neuroanatomie</b> – Munich, Germany  October 2008: <b>Autumn school</b> - Neurocognition: Foundations and Clinical Processes – Montegrotto, Italy  October 2008: <b>SPM 5 Course</b> – Utrecht, The Netherlands  September 2008: <b>Summer School</b> - “The Neuroscience of Memory: Methods and Concepts to Investigate Our Internal Representation of the World” - Bangor, Wales, UK</p>

## Select publications (Impact Factor 2021)

1. **\*Pergola G**, \*Penzel N, Sportelli L, Bertolino A (In press). [Lessons learned from parsing genetic risk for schizophrenia into biological pathways](#). *Biological Psychiatry*. IF: 13.4. doi: 10.1016/j.biopsych.2022.10.009 \*Equal contribution as leading authors. **I received the review invitation, provided funding, and wrote the manuscript.**
2. Valt C, Quarto T, Tavella A, ..., **\*Pergola G**, \*Bertolino A (In press). Reduced Magnetic Mismatch Negativity: a Shared Deficit in Psychosis and Related Risk. *Psychological Medicine*. IF: 7.72. \*equal contribution as senior authors. **I conceptualized the study, provided funding and supervision, and edited the manuscript.**
3. Passiatore R, Antonucci LA, Bierstedt S., ..., **Pergola G** (2021). [How recent learning shapes the brain: Memory-dependent functional reconfiguration of brain circuits](#). *NeuroImage*, 245, 118636. IF: 7.4. **I conceptualized the study, provided funding, acquired the data, analyzed the data, provided supervision, and edited the manuscript.**
4. Antonucci, LA, Penzel N, Pignoni A., ..., **Pergola G** (2021). [Flexible and specific contributions of thalamic subdivisions to human cognition](#). *Neuroscience and Biobehavioral Reviews*, 124, pp. 35–53. IF: 8.99. **I conceptualized the work, provided funding and supervision, and edited the manuscript.**
5. **Pergola G**, Papalino M, Gelao B, ..., Bertolino A (2019). [Evocative gene-environment correlation between genetic risk for schizophrenia and bullying victimization](#). *World Psychiatry* 18(3):366-367. IF: 80. **I provided funding, performed the statistical analyses, and wrote the manuscript.**
6. **Pergola G\***, Di Carlo P\*, Jaffe AE, ..., Bertolino A (2019). [Prefrontal co-expression of schizophrenia risk genes is associated with treatment response in patients](#). *Biological Psychiatry* 86(1): 45–55. \*equal contribution as first authors. IF: 13.4. **I designed the study, analyzed data, provided funding, and wrote the manuscript.**
7. \*Selvaggi P, **\*Pergola G**, Gelao B, ..., Bertolino A (2019). [Genetic Variation of a DRD2 Co-Expression Network is Associated with Changes in Prefrontal Function After D2 Receptors Stimulation](#). *Cerebral Cortex* 29(3):1162-1173. \*equal contribution as first authors. IF: 4.86. **I designed the study, provided supervision to junior colleagues, performed analyses, and wrote the manuscript.**
8. **Pergola G**, Danet L, Pitel AL, ..., Barbeau EJ (2018). [The regulatory role of the human mediodorsal thalamus](#). *Trends in Cognitive Sciences* 22(11): 1011–1025. IF: 24.5. **I conceptualized the review, performed the bulk of the reviewing work, and wrote the manuscript.**
9. \*Fazio L, **\*Pergola G**, Papalino M, ..., Blasi G (2018). [The transcriptomic context of DRD1 is associated with prefrontal activity and behavior during working memory](#). *Proceedings of the National Academy of Sciences USA* 115(21):5582-5587. \*equal contribution as first authors. IF: 12.8. **I designed the study, provided funding and supervision, performed statistical analyses, and wrote the manuscript.**
10. **Pergola G**, Selvaggi P, Trizio S, Bertolino A, Blasi G (2015). [The Role of the Thalamus in Schizophrenia from a Neuroimaging Perspective](#). *Neuroscience and Biobehavioral Reviews* 54: 57-75. IF: 8.99. **I conceptualized the review and wrote the manuscript.**

## Other peer-reviewed publications

1. Benjamin KJB, Chen Q, Jaffe AE, ..., **Pergola G**, ..., Paquola ACM (In press). Analysis of the caudate nucleus transcriptome in individuals with schizophrenia highlights effects of antipsychotics and new risk genes. *Nature Neuroscience*. IF: 28.8. **I provided analysis tools, performed literature reviews, and edited the manuscript.**
2. Antonucci LA, **Pergola G**, Rampino A, ..., Maj M (In press). Clinical and psychological factors associated with resilience in patients with schizophrenia: data from the Italian network for research on psychoses using machine learning. *Psychological Medicine*. IF: 7.72. doi: 10.1017/S003329172200294X. **I provided supervision and edited the manuscript.**
3. Lahti J, Tuominen S, Yang Q, ... **Pergola G**, ..., Rääkkönen K (In press). Genome-wide meta-analyses reveal novel loci for verbal short-term memory and learning. *Molecular Psychiatry*. DOI: 0.1038/s41380-022-01710-8. IF: 13.4. **I contributed to data collection, secondary analyses, and manuscript writing.**
4. D'Ambrosio E, **Pergola G**, Pardiñas AF, ..., Howes OD (2022). A polygenic score indexing a DRD2-related co-expression network is associated with striatal dopamine function. *Scientific Reports* 12(1), 12610. IF: 5.0. **I conceptualized the study, performed data analyses and wrote the first draft of the manuscript.**

5. Patel Y, Shin J, Abé C, ... **Pergola G**, ..., Paus, T (2022) Virtual Ontogeny of Cortical Growth Preceding Mental Illness. *Biological Psychiatry* 92(4), pp. 299–313. **IF: 13.4. I contributed to data curation and edited the manuscript.**
6. Penzel N, Sanfelici R, Antonucci LA, ..., **Pergola G**, ..., Kambeitz J (2022). Pattern of predictive features of continued cannabis use in patients with recent-onset psychosis and clinical high-risk for psychosis. *Schizophrenia (Heidelb)* 8(1):19. **IF: 4.78. I provided funding and supervision.**
7. Frangou S, Modabbernia A, Williams SCR, ... **Pergola G**, ..., Dima D (2022). Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3–90 years. *Human Brain Mapping* 43(1), pp. 431–451. **IF: 5.40. I contributed to data curation and edited the manuscript.**
8. Dima, D., Modabbernia, A., Papachristou, E., ... **Pergola G**, ..., Frangou S (2022). Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3–90 years. *Human Brain Mapping*, 43(1), pp. 452–469. **IF: 5.40. I contributed to data curation and edited the manuscript.**
9. Wierenga LM, Doucet GE, Dima D, ... **Pergola G**, ..., Tamnes CK (2022). Greater male than female variability in regional brain structure across the lifespan. *Human Brain Mapping*, 43(1), pp. 470–499. **IF: 5.40. I curated the dataset and edited the manuscript.**
10. Antonucci LA, Penzel N, ..., **Pergola G**, ... Koutsouleris N (2022). Using combined environmental-clinical classification models to predict role functioning outcome in clinical high-risk states for psychosis and recent-onset depression. *British Journal of Psychiatry* 220(4): 229-245. **IF: 9.32. I contributed to data curation and edited the manuscript.**
11. \*Antonucci LA, \*Fazio L, **Pergola G**, ..., Maj M (2022). Joint structural-functional magnetic resonance imaging features are associated with diagnosis and real-world functioning in patients with schizophrenia. *Schizophrenia Research* 240: 193-203. \*Equal contribution as leading authors. **IF: 4.66. I contributed resources, supervision, data interpretation, data curation and edited the manuscript.**
12. de Zwarte SMC., Brouwer RM, ... **Pergola G**, ..., van Haren NEM (2022). Intelligence, educational attainment, and brain structure in those at familial high-risk for schizophrenia or bipolar disorder. *Human Brain Mapping*, 43(1), pp. 414–430. **IF: 5.4. I contributed to data curation and edited the manuscript.**
13. Braun U, Harneit A, **Pergola G**, ..., Tost H (2021). Brain network dynamics during working memory are modulated by dopamine and diminished in schizophrenia. *Nature Communications*, 12(1), 3478. **IF: 17.7. I contributed to conceptualization, provided analysis tools, and edited the manuscript.**
14. Antonucci LA, Raio A, **Pergola G**, ..., Bertolino A (2021). Machine learning-based ability to classify psychosis and early stages of disease through parenting and attachment-related variables is associated with social cognition. *BMC Psychology*, 9(1), 47. **IF: 2.54. I contributed to data curation, provided supervision, and edited the manuscript.**
15. Ghosal S, Chen Q, **Pergola G**, ...Mattay VS, Venkataraman A (2021). A generative-discriminative framework that integrates imaging, genetic, and diagnosis into coupled low-dimensional space. *NeuroImage*, 238, 118200. **IF: 7.4. I contributed to data curation, provided supervision, and edited the manuscript.**
16. Córdova-Palomera A, van der Meer D, ..., **Pergola G**, ..., Westlye LT (2021). Genetic control of variability in subcortical and intracranial volumes. *Molecular Psychiatry*. 26(8), pp. 3876–3883. **IF: 13.4. I contributed to data curation and edited the manuscript.**
17. Wenzel J, Haas, SS, Dwyer, DB, ... **Pergola G**, ..., Rohner H (2021). Cognitive subtypes in recent onset psychosis: distinct neurobiological fingerprints? *Neuropsychopharmacology*, 46(8), pp. 1475–1483. **IF: 8.29. I contributed to data curation and edited the manuscript.**
18. Penzel N, Antonucci LA, Betz LT, ... **Pergola G**, ..., Rohner H (2021). Association between age of cannabis initiation and gray matter covariance networks in recent onset psychosis. *Neuropsychopharmacology*, 46(8), pp. 1484–1493. **IF: 8.29. I contributed to data curation, provided funding, and edited the manuscript.**
19. Rampino A, Torretta S, Gelao B, ... **Pergola G**, ..., Blasi, G (2021). Evidence of an interaction between FXR1 and GSK3 $\beta$  polymorphisms on levels of Negative Symptoms of Schizophrenia and their response to antipsychotics. *European psychiatry*, 64(1), pp. e39. **IF: 5.36. I provided supervision and edited the manuscript.**
20. Taurisano P, **Pergola G**, Monda A, ..., Blasi G. (2021) The interaction between cannabis use and a CB1-related polygenic co-expression index modulates dorsolateral prefrontal activity during working memory processing. *Brain Imaging and Behavior*. 15(1), pp. 288–299. **IF: 3.98. I contributed to the conceptualization of the study, to data interpretation, and manuscript write-up.**
21. Elvsåshagen T, Bahrami S, van der Meer D, ... **Pergola G**, ..., Kaufmann T (2020). The genetic architecture of human brainstem structures and their involvement in common brain disorders. *Nature Communications*, 11(1), 4016. **IF: 17.7. I contributed to data curation and edited the manuscript.**

22. Popovic D, Ruef A, Dwyer DB, ..., **Pergola G**, ..., Piccin S (2020). Traces of Trauma: A Multivariate Pattern Analysis of Childhood Trauma, Brain Structure, and Clinical Phenotypes. *Biological Psychiatry*, 88(11), pp. 829–842. **IF: 13.4. I contributed to data curation and edited the manuscript.**
23. van der Meer D, Rokicki J, Kaufmann T, ..., **Pergola G**, ..., Westlye LT (2020). Genetic architecture of hippocampal subfield volumes: shared and specific influences. *Molecular Psychiatry*. 25(11), pp. 3053–3065. **IF: 13.4. I contributed to data curation and edited the manuscript.**
24. Zimmermann E, Ghio M, **Pergola G**, ..., Bellebaum C (2020). Separate and overlapping functional roles for efference copies in the human thalamus. *Neuropsychologia*, 147, 107558. **IF: 3.14. I contributed to data curation and edited the manuscript.**
25. Antonucci LA, **Pergola G**, Passiatore R, ..., Blasi G (2020). The interaction between OXTR rs2268493 and perceived maternal care is associated with amygdala-dorsolateral prefrontal effective connectivity during explicit emotion processing. *European Archives of Psychiatry and Clinical Neuroscience*. 270(5), pp. 553–565. **IF: 5.27. I contributed to data interpretation and manuscript write-up.**
26. Antonucci LA, Nettis MA, Juckel G, ..., **\*Pergola G**, \*Thoma P (2020). Selective recall deficits for heterogeneous associations in detoxified individuals with alcohol use disorder. *Behavioral Brain Research* 390, 112688. \*equal contribution as senior authors. **IF: 3.35. I conceptualized and designed the study, contributed data analysis and supervision, and edited the manuscript.**
27. Di Carlo P, **Pergola G**, Antonucci LA, ..., Blasi G (2020). Multivariate Patterns of Grey Matter Volume in Thalamic Nuclei are associated with Positive Schizotypy in Healthy Individuals. *Psychological Medicine*, 50(9), pp. 1501–1509. **IF: 7.72. I designed the study, provided supervision, and edited the manuscript.**
28. Antonucci LA, **Pergola G**, Pignoni A, ..., Bertolino A (2020). A Pattern of Cognitive Deficits Stratified for Genetic and Environmental Risk Reliably Classifies Patients With Schizophrenia From Healthy Control Subjects. *Biological Psychiatry* 87(8): 697-707. **IF: 13.4. I contributed to data interpretation, provided supervision, and edited the manuscript.**
29. Antonucci LA, Penzel N, **Pergola G**, ..., Koutsouleris N (2020) Multivariate classification of schizophrenia and its familial risk based on load-dependent attentional control brain functional connectivity. *Neuropsychopharmacology* 45(4):613-621. **IF: 7.85. I contributed to data interpretation, provided supervision, and edited the manuscript.**
30. Torretta S, Rampino A, Basso M, **Pergola G**, ..., Bertolino A (2020). NURR1 and ERR1 modulate the expression of genes of a *DRD2* co-expression network enriched for schizophrenia risk. *Journal of Neuroscience* 40(4):932-941. **IF: 6.17. I contributed to study design, provided supervision, and edited the manuscript.**
31. Kaufmann T, van der Meer D, Doan NT, ..., **Pergola G**, ..., Westlye LT (2019). Common brain disorders are associated with heritable patterns of apparent aging of the brain. *Nature Neuroscience*. 22(10):1617-1623. **IF: 28.8. I contributed to data curation and edited the manuscript.**
32. Rampino A, Torretta S, Rizzo G, ..., **Pergola G**, Bertolino A, Blasi G (2019). Emotional Stability Interacts with Cortisol Levels Before fMRI on Brain Processing of Fearful Faces. *Neuroscience* 15;416:190-197. **IF: 3.71. I contributed to data curation and edited the manuscript.**
33. Lombardi A, Guaragnella C, Amoroso N, ..., **Pergola G**, ..., Tangaro S (2019). Modelling cognitive loads in schizophrenia by means of new functional dynamic indexes. *Neuroimage* 195:150-164. **IF: 7.4. I contributed to data curation and edited the manuscript.**
34. Alnæs D, Kaufmann T, van der Meer D, ..., **Pergola G**, ..., Westlye LT (2019). Brain Heterogeneity in Schizophrenia and Its Association With Polygenic Risk. *JAMA Psychiatry* 76(7):739-748. **IF: 16.6. I contributed to data curation and edited the manuscript.**
35. Antonucci LA, Di Carlo P, Passiatore R, ..., **\*Pergola G**, \*Blasi G (2019). Thalamic connectivity measured with fMRI is associated with a polygenic index predicting thalamo-prefrontal gene co-expression. *Brain structure & function* 224(3):1331-1344. \*equal contribution as senior authors. **IF: 3.75. I designed the study, provided supervision to junior colleagues, and obtained data and funding.**
36. Selvaggi P, Hawkins PCT, Dipasquale O, ..., Mehta MA (2019). Increased cerebral blood flow after single dose of antipsychotics in healthy volunteers depends on dopamine D2 receptor density profiles. *NeuroImage* 188:774-784. **IF: 7.4. I provided supervision and scientific advice, besides editing the manuscript.**
37. Schwarz E, Doan NT, **Pergola G**, ..., Noethen MM (2019). Reproducible grey matter patterns index a multivariate, global alteration of brain structure in schizophrenia and bipolar disorder. *Translational Psychiatry* 9(1):12. **IF: 6.22. I contributed to study design, data curation, and manuscript preparation.**

38. Nettis MA, **Pergola G**, Kolliakou A, ..., Mondelli V (2019). Metabolic-inflammatory status as predictor of clinical outcome at 1-year follow-up in patients with first episode psychosis. *Psychoneuroendocrinology* 99:145-153. **IF: 4.90. I provided supervision and scientific advice, and I edited the manuscript.**
39. Aiello M, Vignando M, Foroni F, **Pergola G**, ..., Rumiati RI (2018). Episodic memory for natural and transformed food. *Cortex* 107:13-20. **IF: 4.64. I provided supervision and scientific advice, and I edited the manuscript.**
40. Quarto T, Paparella I, De Tullio D, ..., **Pergola G**, Bertolino A, Blasi G (2018). Familial risk and a genome-wide supported DRD2 variant for schizophrenia predict lateral prefrontal-amygdala effective connectivity during emotion processing. *Schizophrenia Bulletin* 44(4):834-843. **IF: 7.35. I provided supervision, contributed to data curation, and edited the manuscript.**
41. Moberget T, Doan NT, Alnæs D, ..., **Pergola G**, ..., Westlye LT (2018). Cerebellar volume and cerebello-cerebral structural covariance in schizophrenia - a multi-site mega-analysis of 983 patients and 1349 healthy controls. *Molecular Psychiatry* 23(6):1512-1520. **IF: 13.4. I contributed to data curation and edited the manuscript.**
42. Chen Q, Ursini G, Mezeivitch K, ..., **Pergola G**, ..., Weinberger DR. (2018) Schizophrenia Polygenic Risk Score Predicts Hippocampal Function in Healthy Volunteers. *Brain* 141(4):1218-1228. **IF: 15.3. I contributed to data curation and edited the manuscript.**
43. Monaco A, Monda A, Amoroso N, ..., **Pergola G**, Tangaro S, Bellotti R (2018). A complex network approach reveals pivotal sub-structure of genes for Schizophrenia. *PLoS ONE* 13(1):e0190110. doi: 10.1371/journal.pone.0190110. **IF: 3.75. I contributed to data curation and edited the manuscript.**
44. Lombardi A, Tangaro S, Bellotti R, ..., **Pergola G**, Taurisano P, Guaragnella C (2017). A Novel Synchronization-based Approach for Functional Connectivity Analysis. *Complexity*. doi: 10.1155/2017/7190758. **IF: 2.83. I contributed to data curation and edited the manuscript.**
45. **Pergola G**, Foroni F, Mengotti P, Argiris G, Rumiati RI (2017). A neural signature of food semantics is associated with body-mass index. *Biological Psychology* 129:282-292. **IF: 3.11. I designed the study, collected and analyzed data, and I wrote the manuscript.**
46. Rampino A, Taurisano P, Attrotto MT, ..., **Pergola G**, ..., Bertolino A (2017). A Polygenic Risk Score of glutamatergic SNPs associated with schizophrenia predicts attentional behavior and related brain activity in healthy humans. **IF: 5.42. European Neuropsychopharmacology** 27(9):928-939. **I contributed to data analysis and edited the manuscript.**
47. Monda A, Amoroso N, Altomare Basile TM, ..., **Pergola G**, Tangaro S (2017). *Topological Complex Networks Properties for Gene Community Detection Strategy: DRD2 Case Study*. Book chapter: Emergent Complexity from Nonlinearity, in Physics, Engineering and the Life Sciences, pp.199-208. **I contributed to data curation and edited the manuscript.**
48. **Pergola G**, Trizio S, Di Carlo P, ..., Blasi G (2017). Grey Matter Volume Patterns in Thalamic Nuclei are Associated with Familial Risk for Schizophrenia. *Schizophrenia Research* 180:13-20. **IF: 4.66. I designed the study, provided supervision, performed statistical analyses and I wrote the manuscript.**
49. **Pergola G**, Di Carlo P, D'Ambrosio E, ..., Bertolino A (2017). *DRD2 Co-expression Network and a related Polygenic Index predict Phenotypes linked to Schizophrenia*. *Translational Psychiatry* 7(1):e1006. **IF: 6.22. I designed the study, provided supervision, performed statistical analyses and wrote the manuscript.**
50. Rampino A, Di Carlo P, Fazio L, ..., **Pergola G**, ..., Blasi G. (2017). Association of functional genetic variation in PP2A with prefrontal working memory processing. *Behavioural Brain Research* 316:125-130. **IF: 3.35. I contributed to data curation and edited the manuscript.**
51. Rumiati R, Foroni F, **Pergola G**, Rossi P, Silveri MC (2016). Lexical-semantic deficits in processing food and non-food items. *Brain and Cognition* 110:120-130. **IF: 2.75. I contributed to data curation and edited the manuscript.**
52. Foroni F, **Pergola G**, Rumiati RI. (2016). Food color is in the eye of the beholder: the role of human trichromatic vision in food evaluation. *Scientific Reports* 6:37034. **IF:5.0. I designed the study, performed statistical analyses, and wrote the manuscript.**
53. Taurisano P, Antonucci LA, Fazio L, ..., **Pergola G**, Bertolino A, Blasi G (2016). Prefrontal activity during working memory is modulated by the interaction between variation of CB1 and COX2 coding genes and by frequency of cannabis use. *Cortex* 81: 231-238. **IF: 4.64. I contributed to data curation, provided supervision, and edited the manuscript.**

54. **Pergola G**, Danet L, Barbeau EJ, ..., Pariente J. (2016) Thalamic amnesia after infarct: The role of the mammillothalamic tract and mediodorsal nucleus. *Neurology* 86(20):1928. **IF: 9.90. I wrote a commentary of the main article.**
55. Antonucci LA, Taurisano P, Fazio L, ..., **Pergola G**, ..., Blasi G (2016). Association of familial risk for schizophrenia with thalamic and medial prefrontal functional connectivity during attentional control. *Schizophrenia Research* 173: 23-29. **IF: 4.66. I contributed to data curation, provided data access and supervision, and I edited the manuscript.**
56. **Pergola G**, Di Carlo P, Andriola I, ..., Bertolino A (2016). Combined Effect of Genetic Variants in *GRIN2B* on Prefrontal Function during Working Memory Performance. *Psychological Medicine* 46: 1135-1150. **IF: 7.72. I designed the study, supervised the work, performed statistical analyses and wrote the manuscript.**
57. Amico F, Ambrosini E, Guillem F, ..., **Pergola G**, Vallesi A (2015). The Virtual Tray of Objects Task as a Novel Method to Electrophysiologically Measure Visuo-Spatial Recognition Memory. *International Journal of Psychophysiology* 98(3): 477-489. **IF: 3.00. I provided scientific advice and edited the manuscript.**
58. **Pergola G**, Bellebaum C, Suchan B (2014). First come, last primed: FN400 reflects post-encoding editing of the memory trace. *Behavioural Brain Research* 266:63-76. **IF: 3.35. I designed the study, collected and analyzed data, and I wrote the manuscript.**
59. **Pergola G** and Suchan B (2013). Associative learning beyond the medial temporal lobe: many actors on the memory stage. *Frontiers in Behavioral Neuroscience* 7:162. **IF: 3.56. I conceptualized the review, collected the articles, and wrote the manuscript.**
60. **Pergola G**, Ranft A, Mathias K, Suchan B (2013). The role of the thalamic nuclei in recognition memory accompanied by recall during encoding and retrieval: an fMRI study. *Neuroimage* 74:195-208. **IF: 7.4. I designed the study, collected and analyzed data, and I wrote the manuscript.**
61. **Pergola G**, Bellebaum C, Gehlhaar B, Koch B, Schwarz M, Daum I, Suchan B (2013) The involvement of the thalamus in semantic retrieval: a clinical group study. *Journal of Cognitive Neuroscience* 25(6):872-86. **IF: 3.42. I analyzed the data and wrote the manuscript.**
62. **Pergola G**, Suchan B, Koch B, Schwarz M, Daum I, Güntürkün O (2013) Quantitative assessment of chronic thalamic stroke. *American Journal of Neuroradiology* 34:E51-E55. **IF: 4.97. I designed the study, collected and analyzed data, and I wrote the manuscript.**
63. **Pergola G**, Trotta M, Suchan B (2013). Asymmetric hemispheric contribution to ERPs in associative memory indexes goal relevance and quantity of information. *Behavioural Brain Research* 241C:7-16. **IF: 3.35. I designed the study, collected and analyzed data, and I wrote the manuscript.**
64. Foroni F, **Pergola G**, Argiris G, Rumiati RI (2013). The FoodCast Research Image Database (FRIDa). *Frontiers in Human Neuroscience* 7:51. **IF: 4.6. I contributed to study design, collected and analyzed data, and I edited the manuscript.**
65. **Pergola G**, Güntürkün O, Koch B, Schwarz M, Daum I, Suchan B (2012). Recall deficits in stroke patients with thalamic lesions covary with damage to the parvocellular mediodorsal nucleus of the thalamus. *Neuropsychologia* 50(10):2477-2491. **IF: 3.14. I contributed to study design, collected and analyzed data, and I wrote the manuscript.**
66. Peterburs J, **Pergola G**, Koch B, ..., Bellebaum C (2011). Altered Error Processing following Vascular Thalamic Damage: Evidence from an Antisaccade Task. *PLoS ONE* 6(6): e21517. doi:10.1371/journal.pone.0021517. **IF: 3.75. I contributed to data analysis and edited the manuscript.**