

SHORT Curriculum Vitae (updated March 2016)

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CURRENT POSITIONS

- Full Professor in Psychiatry at the University of Verona, Department of Public Health and Community Medicine, Section of Psychiatry and *WHO Collaborating Centre for Research and Training in Mental Health and Service Evaluation* (2000-present)
- Head of the Section of Psychiatry (October 2013- present), University of Verona
- Deputy Director Department Public Health and Community Medicine (2008-2015)
- Director of the Department of Mental Health in Verona, Director of the 3rd Community Based Mental Health Service in Verona, National Health Authority, Verona (October 2013- present)
- Director of the Service of Psychosomatic and Clinical Psychology, Section of Psychiatry, University of Verona, National Health Authority, Verona (2004-2014)
- Director of the Specialization School in Psychiatry, University of Verona (2011 – present)
- Appointed as Chairperson of the European Network for Mental Health Service Evaluation (*ENMESH*) (acting from May 2008 till October 2015), currently Past President
- Past- President of the *Italian Society of Psychiatric Epidemiology* (October 2007- present)
- Coordinator of the Research Unit “*Clinical, Environmental and Biological Determinants of Outcome in Mental Health*” at the Section of Psychiatry, Department of Department of Public Health and Community Medicine, University of Verona, Italy (1992-present)
- Responsible for the Quality Assurance Program at the Service of Psychosomatic and Clinical Psychology, Department of Medicine and Public Health, University of Verona (2000-2010)
- National Coordinator of the Research Program *Genetics, Endophenotypes and Treatment: Understanding early Psychosis (GET-UP)*, started on December 2008 and funded by the Ministry of Health in the frame of the Ricerca Sanitaria Finalizzata 2007.

DEGREES AND DIPLOMAS

- Doctor in Medicine: graduated with full marks and honors in 1984 at the University of Bologna, Italy
- Specialist in Psychiatry: specialized with full marks and honors in 1988 at the University of Bologna, Italy
- Ph.D. in Psychiatry: Course completed in 1994 at the University of Verona, Italy

POST-DOCTORAL STAGES

- Research Fellow at the “Neurochemistry Unit”, Department of Physiology, University of Modena, Italy (May 1984-October 1988);

- Visiting scientist at the Department of Pharmacology and at the Department of Histology and Neurobiology at Karolinska Institutet, Stockholm, Sweden (April 1985 - March 1986);
- Visiting scientist at the Institute of Psychiatry, University of San Francisco and at the Institute for Epidemiology and Behavioural Medicine, Berkley, USA (March-April 1992);
- Visiting scientist at the Institute of Psychiatry, King's College, London (October-November 1996).
- Honorary Academic Visitor at the Institute of Psychiatry, Kings' College, University of London, April 2004-March 2007.

Professor Ruggeri has been visiting scientist for shorter periods in these and others scientific institutions and is currently collaborating with various research groups around the world.

RESEARCH ACTIVITIES

Professor Ruggeri's current fields of interest include Epidemiological and Social Psychiatry, Mental Health Service Evaluation, and the Assessment of Outcome for Psychiatric Disorders. She conducted also several research projects in the fields of Neurobiology, Clinical Psychopharmacology and Liaison Psychiatry. She has published 277 papers, of these 144 have been published in international journals or books. She has an H index at December 2015 of 33, with 5715 citations (1996-2015) and is the author of four books in Italian respectively concerning psychiatric disorders in general practice, quality of life, assessment of outcome in routine clinical practice, and the outcome of schizophrenia and 1 book in English

Studies on Neurobiology (1984-1989)

Professor Ruggeri conducted *in vivo*, *in vitro* and behavioural studies on the effects of various drugs on the monoaminergic and peptidergic brain systems and studies on brain plasticity and metabolism. Several of her studies have been performed using the *in vivo* intracerebral microdialysis technique in collaboration with the Department of Histology and Neurobiology and the Department of Pharmacology at Karolinska Insitutet, Stockholm, Sweden.

Studies on Satisfaction with Mental Health Services (1989-present)

In the early '90s Professor Ruggeri developed the Verona Expectations for Care Scale VECS) and the Verona Service Satisfaction Scale (VSSS) to measure in a multidimensional way the expectations and satisfaction of patients, relatives and professionals with mental health services. A series of studies have been completed, which, first in this field, provided evidence on the psychometric properties of the measurement of expectations and satisfaction in psychiatric settings. The factorial structure of the VSSS has been explored and shortened versions of the VSSS (VSSS-54 and VSSS-32) with good psychometric properties have been produced. The content validity of the VSSS has been proven cross-nationally. Within the broader framework of the Epsilon Study of Schizophrenia VSSS-EU for patients has been produced, translated into five different languages (Italian, English, Dutch, Danish, Spanish) and adapted for use in these countries' psychiatric settings. Translations and adaptations of the VSSS into several other languages (among these French, German, Portuguese, Greek, Sloven, Norwegian, Japanese, Chinese) are also available and the VSSS is currently used in psychiatric services of many countries worldwide.

Professor Ruggeri has coordinated a series of studies aimed to compare satisfaction of psychotic patients with various types of services, located in different social contexts. A comparison of patient satisfaction with psychiatric services in 5 European countries,

conducted within the framework of the Epsilon Study, has shown that patient satisfaction, though differing significantly across sites, was lowest in all sites in the domains assessing ‘Involvement of relatives in care’ and ‘Information about illness’. Overall the data showed that satisfaction with psychiatric services can be considered as result of both the ability of a service to provide a standard of care above a certain quality threshold, and the perception of each individual patient that the care received has been specifically tailored to his/her specific, individual needs.

Several other studies are being conducted to correlate service satisfaction with other outcome variables and to implement the routine use of satisfaction assessments as quality improvement tools in mental health settings.

Studies on the Outcome of Mental Health Care (1993-present)

i. The South Verona Outcome Project

Professor Ruggeri has conceived and conducted the *South Verona Outcome Project (SVOP)*, a naturalistic, longitudinal study aimed to assess the outcome of care provided by a community-based mental health service in Verona. The study has the following key characteristics: 1) it is conducted within the context of routine clinical practice in a well established, community-based “real world psychiatric service”; 2) it involves the assessment of a comprehensive set of outcome-related variables, such as clinical variables, social variables, quality of life, variables concerning the interaction with services (needs for care, satisfaction with services, family burden); 3) there is the systematic involvement of key clinicians and patients in the assessments; 4) there is regular monitoring of the quality of the data collected. Regular assessments take place twice a year in representative samples of patients attending the service. More than 2500 patients have been assessed to date in a standardized way by clinicians, and more than 1000 patients have completed self-administered instruments. A comprehensive data set has thus been obtained, providing a valuable source of information that can be used for purposes of service planning and evaluation. A series of papers have been published which address methodological and statistical issues of multidimensional assessments; explore the role of quality of life as an indicator of outcome, its latent constructs and predictors; identify the patients’ characteristics associated with higher needs for care and the discrepancies in the perception of needs between patients and professionals, their causes and their implications. A Supplement of *Acta Psychiatrica Scandinavica* entirely dedicated to follow-up data from the South-Verona Outcome Project has been published in December 2007.

To date, the South Verona Outcome Project is one of the few systematic evaluations of a “real world Mental Health Service” found in the international literature. Results so far confirm that, in spite of some difficulties and limitations, a routine assessment of outcome, which involves both clinicians and patients in the measurement, is feasible and can provide a useful contribution to service evaluation and planning.

ii. The EPSILON Study of Schizophrenia

Professor Ruggeri has coordinated the research activities for the Verona site of the “*Epsilon Study of Schizophrenia*” (European Psychiatric Services: Input Linked to Outcome domains and Needs), a collaborative research project conducted in five European countries (England, Denmark, Holland, Italy and Spain), that was carried out between 1996 and 2000, funded by the EU Commission. All treated patients aged 18-65, with a ICD-10 diagnosis of any F20-F25, who have been in contact with local mental health services during the three month period

preceding the start of the study, were considered to be eligible. A random representative sample of 404 eligible patients, in total, was included in the study. The measures used were: BPRS, Global Assessment of Functioning, CAN, LQoLP, VSSS and the Involvement Evaluation Questionnaire. This study has produced adapted and validated versions of the instruments above mentioned to be used throughout Europe. There has also been a series of scientific papers that examine the issues identified in the outcome related areas assessed in the study, and their association with the other variables included in the model.

iii. Follow-up studies on the predictors of outcome

Professor Ruggeri has coordinated a series of follow-up studies in prevalence cohorts of patients affected by mental disorders. The aim of these studies is to identify predictive patterns of favourable and unfavourable outcomes in naturalistic settings, using a multidimensional approach to include objective and subjective variables, and taking into account the role of demographic, clinical, social and service variables. She is currently coordinating the *Psychosis Incident Cohort Outcome Study (PICOS)*, a multicentric study involving several mental health services in the Veneto Region, Italy. In this study, specific initiatives have also been undertaken to identify the relative role played by biological factors as predictors, such as genetic predisposition and morpho-functional brain alterations. In addition an intervention trial was performed, aimed at assessing the effectiveness of defined therapeutic interventions.

iv) the GET UP Research Program on early Psychosis

In September 2008, the Research Program GET UP (**G**enetics, **E**ndophenotypes and **T**reatment: **U**nderstanding early **P**sychosis), with Professor Ruggeri as National Coordinator, has been funded by the Ministry of Health. It is constituted by four partner projects: 1. PIANO (**P**sychosis: early **I**ntervention and **A**ssessment of **N**eeds and **O**utcome); 2. TRUMPET (**T**Raining and **U**nderstanding of service **M**odels for **P**sychosis **E**arly **T**reatment); 3. GUITAR (**G**enetic data **U**tilization and **I**mplementation of **T**argeted drug **A**dministration in the clinical **R**outine); 4. CONTRABASS (**C**Ognitive **N**euroendophenotypes for **T**reatment and **R**eh**A**bilitation of psychoses: **B**rain imaging, infl**A**mmation and **S**tr**S**)

The PIANO and TRUMPET projects' main aim is to set up specific, evidence-based forms of psychosocial intervention for patients with first-onset psychosis and their family members, and to use a randomized, controlled trial to assess the effectiveness and feasibility of these interventions in everyday clinical practice. GET UP data collection were conducted in several Italian Community Mental Health Centres (CMHCs), yielding a total catchment area of approximately 10 million inhabitants thereby.

The experimental group have received Cognitive-Behavioural Therapy (CBT), family psychoeducation, and case management. The effectiveness data and response-to-treatment predictors yielded helped to improve the quality of early intervention for psychosis. The GUITAR and CONTRABASS projects were conducted in the enrolled sample, in close connection with the two above-mentioned projects. The GUITAR project have investigated patients' genomic and proteomic characteristics, in an effort to identify bio-molecular markers, genetic polymorphism, and proteinic variations that might be associated with psychotic symptoms, cognitive and neuro-functional endophenotypes, and response to medication. The CONTRABASS project has attempted to identify cerebral morpho-functional and neuropsychological markers of prognostic value and therefore contributed to enhancing treatment and patients' clinical improvement; it also focuses on the biological characteristics underpinning stress in psychotic disorders.

The interaction between these four projects has shed light on several biological, psychological, and environmental issues that are presumably linked to psychosis onset, but which still remain unresolved. This synergetic endeavour has therefore produced results (papers about to be submitted) that serve as the foundation for designing the most effective treatment strategies to improve the course and outcome of psychotic disorders.

CLINICAL ACTIVITIES

Professor Ruggeri coordinates the clinical activities of the Section of Psychiatry of the University of Verona and at the South-Verona Community-based Mental Health Service and she is also responsible of the Liaison Psychiatry Team that works for patients and doctors of the Academic General Hospital (800 beds) and coordinates care provided in the Outpatient Department to patients with anxiety and depressive disorders, as well as consultations for other mental health problems.

CONGRESSES, EDITORIAL BOARDS AND OTHER INTERNATIONAL POSITIONS

- Member of the Scientific Committee of the *Italian Society of Psychiatric Epidemiology* (Treasurer 1995-1999; Vice-President 1999-2003; President 2003-2007; Past-President 2007-present)
- Member of the Scientific Committee of the European Network for Mental Health Service Evaluation (*ENMESH*; 2002 – 2008; 2008 – present Chairperson)
ENMESH – the European Network for Mental Health Service Evaluation – was established in 1991 under the auspices of the World Health Organisation, Regional Office for Europe. ENMESH aims are: a) to develop and maintain a network of active researchers in mental health service research in Europe – Eastern, Central and Western; b) to promote the development and dissemination of study designs, research instruments, mental health outcome indicators (including cost measurements), and relevant forms of statistical indicators; c) to function as a clearing house for mental health service evaluation information in Europe.
- Member of the Editorial Board of the *AEP Section of Social Psychiatry and Psychiatric Epidemiology* (2004-present)
- Member of the *International Federation of Psychiatric Epidemiology (IFPE)*
- Member of the *Association of European Psychiatrists (AEP)*
- Member of the *Italian Society of Psychiatry (SIP)*
- Member of the Editorial Board of *Social Psychiatry and Psychiatric Epidemiology*
- Member of the Editorial Board of *Epidemiologia e Psichiatria Sociale*
- Member of the Editorial Board of *Psichiatria di Comunità*
- Professor Ruggeri has held over 250 presentations in international and national congresses, has acted as chairperson in several Sessions and Symposia and has been included in the Scientific Committee of many international and national Congresses

Updated September 2016

PROFESSOR MIRELLA RUGGERI - SECTION OF PSYCHIATRY UNIVERSITY OF VERONA

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Publications

A) PAPERS PUBLISHED IN INTERNATIONAL JOURNALS

B) PAPERS AND REVIEWS PUBLISHED IN INTERNATIONAL BOOKS AND MONOGRAPHS

C) PAPERS PUBLISHED IN ITALIAN JOURNALS

D) PAPERS PUBLISHED IN ITALIAN BOOKS AND MONOGRAPHS

E) BOOKS

PAPERS PUBLISHED IN INDEXED INTERNATIONAL JOURNALS

A144) Dusi N, Bellani M, Perlini C, Squarcina L, Marinelli V, Finos L, Altamura CA, **Ruggeri M**, Brambilla P. Progressive disability and prefrontal shrinkage in schizophrenia patients with poor outcome: A 3-year longitudinal study (2016) Schizophr Res. 2016 Sep 10. pii: S0920-9964(16)30395-4. doi: 10.1016/j.schres.2016.09.013. [Epub ahead of print]

A 143) **Ruggeri M** & Iozzino L Moving towards community mental healthcare – the Italian experience. Die Psychiatrie – Grundlagen und Perspektiven (2016) Issue1:15-24 [Article in English and German]

A 142) Luoni A, Gass P, Brambilla P, **Ruggeri M**, Riva MA, Inta D. Altered expression of schizophrenia-related genes in mice lacking mGlu5 receptors. Eur Arch Psychiatry Clin Neurosci. 2016 Aug 31. [Epub ahead of print] PubMed PMID: 27581816.

A 141) Bellani M, Boschello F, Delvecchio G, Dusi N, Altamura CA, **Ruggeri M**, Brambilla P. DTI and Myelin Plasticity in Bipolar Disorder: Integrating Neuroimaging and Neuropathological Findings. Front Psychiatry. 2016 Mar 1;7:21. doi: 10.3389/fpsy.2016.00021. eCollection 2016. Review. PubMed PMID: 26973545; PubMed Central PMCID: PMC4771723.

A 140) Diwadkar VA, Bellani M, Ahmed R, Dusi N, Rambaldelli G, Perlini C, Marinelli V, Ramaseshan K, **Ruggeri M**, Bambilla P. Chronological age and its impact on associative learning proficiency and brain structure in middle adulthood. Behav Brain Res. 2016 Jan 15;297:329-37. doi: 10.1016/j.bbr.2015.10.016. Epub 2015 Oct 20. PubMed PMID: 26462573.

A 139) Mathews S, Onwumere J, Bissoli S, **Ruggeri M**, Kuipers E, Valmaggia L. Measuring attachment and parental bonding in psychosis and its clinical implications. Epidemiol Psychiatr Sci. 2016 Apr;25(2):142-9. doi:10.1017/S2045796014000730. Epub 2014 Dec 19. PubMed PMID: 25523269.

A 138) Squarcina L, Castellani U, Bellani M, Perlini C, Lasalvia A, Dusi N, Bonetto C, Cristofalo D, Tosato S, Rambaldelli G, Alessandrini F, Zoccatelli G, Pozzi-Mucelli R, Lamonaca D, Ceccato E, Pileggi F, Mazzi F, Santonastaso P, **Ruggeri M**, Brambilla P; GET UP Group. Classification of first-episode psychosis in a large cohort of patients using support vector machine and multiple kernel learning techniques. *Neuroimage*. 2015 Dec 12. pii: S1053-8119(15)01120-9. doi: 10.1016/j.neuroimage.2015.12.007. [Epub ahead of print] PubMed PMID: 26690803.

A 137) Giacco D, Bird VJ, McCrone P, Lorant V, Nicaise P, Pfennig A, Bauer M, **Ruggeri M**, Lasalvia A, Moskalewicz J, Welbel M, Priebe S. Specialised teams or personal continuity across inpatient and outpatient mental healthcare? Study protocol for a natural experiment. *BMJ Open*. 2015 Nov 25;5(11):e008996. doi: 10.1136/bmjopen-2015-008996. Erratum in: *BMJ Open*. 2016;6(1):e008996corr1. PubMed PMID: 26608634; PubMed Central PMCID: PMC4663441.

A 136) Casacchia M, Malavolta M, Bianchini V, Giusti L, Di Michele V, Giosuè P, **Ruggeri M**, Biondi M, Roncone R; Directors Italian Section, World Association For Psychosocial Rehabilitation (WAPR). [Closing forensic psychiatric hospitals in Italy: a new deal for mental health care?]. *Riv Psichiatr*. 2015 Sep-Oct;50(5):199-209. doi: 10.1708/2040.22158. Italian. PubMed PMID: 26489069.

A 135) Tosato S, Ira E, Russo M, Iyegbe C, Lasalvia A, Di Forti M, Morgan K, Bonetto C, Morgan C, De Rossi M, Nicolau S, Chan RC, Reis Marques T, Collier DA, Reichenberg A, Murray RM, Tansella M, **Ruggeri M**, Dazzan P. Association between the COMT gene and neurological abnormalities and poorer executive function in psychosis. *Psychiatry Res*. 2015 Dec 15;230(2):742-3. doi: 10.1016/j.psychres.2015.05.105. Epub 2015 Jun 29. PubMed PMID: 26144577.

A 134) **Ruggeri M**, Bonetto C, Lasalvia A, Fioritti A, de Girolamo G, Santonastaso P, Pileggi F, Neri G, Ghigi D, Giubilini F, Miceli M, Scarone S, Cocchi A, Torresani S, Faravelli C, Cremonese C, Scocco P, Leuci E, Mazzi F, Pratelli M, Bellini F, Tosato S, De Santi K, Bissoli S, Poli S, Ira E, Zoppei S, Rucci P, Bislinghi L, Patelli G, Cristofalo D, Meneghelli A; GET UP Group. Feasibility and Effectiveness of a Multi-Element Psychosocial Intervention for First-Episode Psychosis: Results From the Cluster-Randomized Controlled GET UP PIANO Trial in a Catchment Area of 10 Million Inhabitants. *Schizophr Bull*. 2015 Sep;41(5):1192-203. doi: 10.1093/schbul/sbv058. Epub 2015 May 20. PubMed PMID: 25995057; PubMed Central PMCID: PMC4535643.

A 133) Gaebel W, Großimlinghaus I, Heun R, Janssen B, Johnson B, Kurimay T, Montellano P, Muijen M, Munk-Jorgensen P, Rössler W, **Ruggeri M**, Thornicroft G, Zielasek J; European Psychiatric Association. European Psychiatric Association (EPA) guidance on quality assurance in mental healthcare. *Eur Psychiatry*. 2015 Mar;30(3):360-87. doi: 10.1016/j.eurpsy.2015.01.011. Epub 2015 Feb 26. Review. PubMed PMID: 25725593.

A 132) Ira E, Bonetto C, Zanoni M, Bottacini A, Mazzoncini R, Martini L, Garozzo A, Lasalvia A, Tansella M, **Ruggeri M**, Tosato S. Neurological soft signs and prepulse inhibition of the startle reflex in psychosis: A pilot study. *Int J Psychiatry Clin Pract*. 2015;19(4):276-84. doi: 10.3109/13651501.2015.1016041. Epub 2015 Mar 13. PubMed PMID: 25666859.

A 131) Peruzzo D, Castellani U, Perlini C, Bellani M, Marinelli V, Rambaldelli G, Lasalvia A, Tosato S, De Santi K, Murino V, **Ruggeri M**, Brambilla P; PICOS-Veneto Group. Classification of first-episode psychosis: a multi-modal multi-feature approach integrating structural and diffusion imaging. *J Neural Transm (Vienna)*. 2015 Jun;122(6):897-905. doi: 10.1007/s00702-014-1324-x. Epub 2014 Oct 26. PubMed PMID: 25344845.

A 130) Tosato S, Zanoni M, Bonetto C, Tozzi F, Francks C, Ira E, Tomassi S, Bertani M, Rujescu D,

Giegling I, St Clair D, Tansella M, **Ruggeri M**, Muglia P. No association between NRG1 and ErbB4 genes and psychopathological symptoms of schizophrenia. *Neuromolecular Med.* 2014 Dec;16(4):742-51. doi: 10.1007/s12017-014-8323-9. Epub 2014 Aug 21. PubMed PMID: 25142529.

A 129) Ira E, De Santi K, Lasalvia A, Bonetto C, Zanatta G, Cristofalo D, Bertani M, Bissoli SS, Riolo R, Gardellin F, Morandin I, Ramon L, Tansella M, **Ruggeri M**, Tosato S; PICOS-Veneto Group. Positive symptoms in first-episode psychosis patients experiencing low maternal care and stressful life events: a pilot study to explore the role of the COMT gene. *Stress.* 2014 Sep;17(5):410-5. doi: 10.3109/10253890.2014.948841. PubMed PMID: 25068285.

A 128) De Santi K, Lasalvia A, D'Astore C, **Ruggeri M**. Outcomes from Italian community psychiatric services studies. *J Nerv Ment Dis.* 2014 Jun;202(6):501-6. doi: 10.1097/NMD.000000000000152. Review. PubMed PMID: 24886949.

A 127) European Network of National Networks studying Gene-Environment Interactions in Schizophrenia (EU-GEI), van Os J, Rutten BP, Myin-Germeys I, Delespaul P, Viechtbauer W, van Zelst C, Bruggeman R, Reininghaus U, Morgan C, Murray RM, DiForti M, McGuire P, Valmaggia LR, Kempton MJ, Gayer-Anderson C, Hubbard K, Beards S, Stilo SA, Onyejiaka A, Bourque F, Modinos G, Tognin S, Calem M, O'Donovan MC, Owen MJ, Holmans P, Williams N, Craddock N, Richards A, Humphreys I, Meyer-Lindenberg A, Leweke FM, Tost H, Akdeniz C, Rohleder C, Bumb JM, Schwarz E, Alptekin K, Üçok A, Saka MC, Atbaşoğlu EC, Gülöksüz S, Gumus-Akay G, Cihan B, Karadağ H, Soygür H, Cankurtaran EŞ, Ulusoy S, Akdede B, Binbay T, Ayer A, Noyan H, Karadayı G, Akturan E, Ulaş H, Arango C, Parellada M, Bernardo M, Sanjuán J, Bobes J, Arrojo M, Santos JL, Cuadrado P, Rodríguez Solano JJ, Carracedo A, García Bernardo E, Roldán L, López G, Cabrera B, Cruz S, Díaz Mesa EM, Pouso M, Jiménez E, Sánchez T, Rapado M, González E, Martínez C, Sánchez E, Olmeda MS, de Haan L, Velthorst E, van der Gaag M, Selten JP, van Dam D, van der Ven E, van der Meer F, Messchaert E, Kraan T, Burger N, Leboyer M, Szoke A, Schürhoff F, Llorca PM, Jamain S, Tortelli A, Frijda F, Vilain J, Galliot AM, Baudin G, Ferchiou A, Richard JR, Bulzacka E, Charpeaud T, Tronche AM, De Hert M, van Winkel R, Decoster J, Derom C, Thiery E, Stefanis NC, Sachs G, Aschauer H, Lasser I, Winklbaur B, Schlögelhofer M, Riecher-Rössler A, Borgwardt S, Walter A, Harrisberger F, Smieskova R, Rapp C, Ittig S, Soguel-dit-Piquard F, Studerus E, Klosterkötter J, Ruhrmann S, Paruch J, Julkowsky D, Hilboll D, Sham PC, Cherny SS, Chen EY, Campbell DD, Li M, Romeo-Casabona CM, Eraldi Cirión A, Urruela Mora

A, Jones P, Kirkbride J, Cannon M, Rujescu D, Tarricone I, Berardi D, Bonora E, Seri M, Marcacci T, Chiri L, Chierzi F, Storbini V, Braca M, Minenna MG, Donegani I, Fioritti A, La Barbera D, La Cascia CE, Mulè A, Sideli L, Sartorio R, Ferraro L, Tripoli G, Seminerio F, Marinaro AM, McGorry P, Nelson B, Amminger GP, Pantelis C, Menezes PR, Del-Ben CM, Gallo Tenan SH, Shuhama R, **Ruggeri M**, Tosato S, Lasalvia A, Bonetto C, Ira E, Nordentoft M, Krebs MO, Barrantes-Vidal N, Cristóbal P, Kwapil TR, Brietzke E, Bressan RA, Gadelha A, Maric NP, Andric S, Mihaljevic M, Mirjanic T. Identifying gene-environment interactions in schizophrenia: contemporary challenges for integrated, large-scale investigations. *Schizophr Bull.* 2014 Jul;40(4):729-36. doi: 10.1093/schbul/sbu069. Epub 2014 May 24. Review. PubMed PMID: 24860087; PubMedCentral PMCID: PMC4059449.

A 126) Lasalvia A, Zoppi S, Bonetto C, Tosato S, Zanatta G, Cristofalo D, De Santi K, Bertani M, Bissoli S, Lazzarotto L, Ceccato E, Riolo R, Marangon V, Cremonese C, Boggian I, Tansella M, **Ruggeri M**. The role of experienced and anticipated discrimination in the lives of people with first-episode psychosis. *Psychiatr Serv.* 2014 Aug 1;65(8):1034-40. doi: 10.1176/appi.ps.201300291. PubMed PMID:24788167.

A 125) Munk-Jørgensen P, Okkels N, Golberg D, **Ruggeri M**, Thornicroft G. Fifty years' development and future perspectives of psychiatric register research. *Acta Psychiatr Scand.* 2014 Aug;130(2):87-98. doi: 10.1111/acps.12281. Epub 2014 Apr 21. PubMed PMID: 24749690.

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