Opening Letter

Dear Attendees,

It is our great pleasure to welcome you to the 6th Biennial Schizophrenia International Research Society (SIRS) Conference. SIRS is a non-profit organization dedicated to promoting research and communication about schizophrenia among research scientists, clinicians, drug developers, and policy makers internationally. We sincerely appreciate your interest in the Society and in our conference. The fifth congress in 2016 was a major success for the field attracting more than 1800 attendees from 52 countries. We anticipate an even higher attendance at this congress with most of the best investigators in the world in attendance.

SIRS was founded in 2005 with the goal of bringing together scientists from around the world to exchange the latest advances in biological and psychosocial research in schizophrenia. The Society is dedicated to facilitating international collaboration to discover the causes of, and better treatments for, schizophrenia and related disorders. Part of the mission of the Society is to promote educational programs in order to effectively disseminate new research findings and to expedite the publication of new research on schizophrenia.

The focus of the 6th Biennial Conference is ‘Integrated Prevention and Treatment: Shifting the Way We Think’. Under the outstanding leadership of Program Committee Chairs, Paola Dazzan, Bita Moghaddam, and Eóin Killackey, we have an exciting scientific program planned for this year. The Program Committee selected thirty-five outstanding symposia sessions out of 103 submissions. They also put together a Pharmaceutical Pipeline session and selected ninety-six superior oral presentations to be presented on Tuesday from more than 650 abstracts submitted. Plan to visit the poster sessions during lunch on Thursday, Friday, and Saturday to see the over 1,000 posters.

Please remember to complete an evaluation at the end of the conference so the Society can continue to improve its educational offerings. If you are not already a member, please stop by the registration desk and inquire about member benefits and how to join. We hope you enjoy this conference and in addition to learning about the latest, cutting edge research in the field, you will enjoy the beautiful city of Florence and its rich history.

Sincerely,

The Organizers

President: Patrick McGorry, FRCP, M.D., Ph.D.
President-Elect: Lynn DeLisi, M.D.
Past President: René S. Kahn, M.D., Ph.D.
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Treasurer: Shitij Kapur, M.D., Ph.D.
Program Committee Chair: Paola Dazzan, FRCPscyh
Program Committee Co-Chair: Bita Moghaddam, Ph.D.
Program Committee Co-Chair: Eoin Killackey, Ph.D.
The Schizophrenia International Society’s (SIRS) Board of Directors enthusiastically announces that beginning in 2019 they will host annual meetings alternating between Europe on even years and North America on the odd years. The society is working to create a cohesive balance incorporating key elements from both the legacy of the former International Society on Schizophrenia Research (ICOSR) and SIRS. SIRS is excited to bring together scientists from around the world to further its mission to exchange the latest advances in biological and psychosocial research in schizophrenia. It is hoped that moving to an annual meeting will facilitate further progress toward developing international collaborations for the discovery of causes and better treatments for schizophrenia and related disorders.

We hope that moving to an annual meeting will continue to develop international collaboration to discover the causes of, and better treatments for, schizophrenia and related disorders.

The 2019 Conference will be held at the Hyatt Regency in Orlando, Florida from 10-14 March 2019. The Program Committee is being led by Professors Paola Dazzan and Raquel Gur.

Registration and abstract submissions will open in mid-July 2018. For more information, please refer to Schizophreniaresearchsociety.org under the 2019 conference tab.

We look forward to seeing you in Orlando in 2019!

For any questions, please contact the SIRS Executive Office at info@schizophreniaconference.org.
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Disclosures

Disclosures for 2018 speakers, plenary, symposia, oral presentations and poster presenters may be found online at www.SchizophreniaConference.org. A copy of the disclosures will be available at the registration desk.

Acknowledgements

The Schizophrenia International Research society appreciates the generous support of the Society from our 2017-2018 Supporting Corporations.

Gold

Silver

Other Sponsorships

Educational Grants:

The Sponsors express appreciation to the following companies for their support of this educational activity by providing unrestricted educational grants:

- Alkermes
- Sunovion

The Junior Travel Award Fellowship Program is partially sponsored by a grant from the U.S. National Institute Drug Abuse to Harvard Medical School (Lynn DeLisi, PI).
GENERAL INFORMATION

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Vera Morgan
Stefan Smesny
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Stephen Wood
Robert Zipursky
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Germany
Canada
Australia
Canada
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Program Co-Chair: Bita Moghaddam, USA

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Celso Arango, Spain
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Aristotle Voineskos, Australia
Thomas Weickert, Australia
Stephen Wood, The Netherlands
Alexander Wunderink, United Kingdom
Alison Yung, Canada
Robert Zipursky, Canada
International CME Accreditation

The American Medical Association has determined that physicians not licensed in the US who participate in this CME activity are eligible for *AMA PRA Category 1 Credits™*. ACCME / *AMA PRA Category 1 Credits™* carry reciprocity with EACCME member countries and most international licensing bodies for physicians, with some exceptions. Physicians should check with their country/board for eligibility.

Physicians

Accreditation Statement - In support of improving patient care, this activity has been planned and implemented by Amedco and the Schizophrenia International Research Society. Amedco is jointly accredited by the American Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Credit Statement - Amedco designates this live activity for a maximum of 24 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

To obtain credit, registered participants must complete an online evaluation at the conclusion of the meeting. The evaluation may be completed at [www.SchizophreniaConference.org](http://www.SchizophreniaConference.org).

Physicians

Amedco certifies that the attendee named above has participated in the live activity titled 6th Biennial Schizophrenia International Research Society Conference in Florence, Italy on April 4 – 8, 2018 and is awarded the number of *AMA PRA Category 1 Credit(s)™* listed above.

COURSE OBJECTIVES:

After participating in the CME Activity, Clinicians should be able to describe and discuss:

- Strategies for determining an approach to manage patients with schizophrenia
- The Status of genetic findings, and how they can be incorporated into strategies for managing patients with schizophrenia
- The use of brain imaging data about pathophysiology and disease progression to revise or continue a strategy for managing patients with schizophrenia
- The implications of basic neuroscience findings for managing patients with schizophrenia
After participating in the CME Activity, Researchers should be able to describe and discuss:

• Approaches to develop novel treatments for schizophrenia
• Strategies for translating basic neuroscience into knowledge that can be used in clinical practice
• Differences in schizophrenia research across diverse cultures and geographic areas
• Novel intervention studies that will promote the development of advanced knowledge about schizophrenia
• Methods to advance the clinical application of genetic research in schizophrenia

DISCLOSURES
Disclosures for 2018 speakers, plenary, symposia, oral presentations and poster presenters may be found online at www.SchizophreniaConference.org. A copy of the disclosures will be available at the registration desk.

CONFERENCE EVALUATION:
All conference attendees are urged to complete an evaluation of the meeting. Attendees who are requesting CME (ACCME, EACCME) credit for the meeting are required to complete the evaluation. This form is available online only. Beginning 8 April, you may complete the evaluation in the Computer Center or on-line at www.SchizophreniaConference.org. All evaluations must be completed by Tuesday, 8 May 2018.

VIDEOTAPING SESSIONS:
Attendees may not videotape, audiotape, or photograph (camera or camera phone) presentations at the conference without prior permission from the session chair.

REGISTRATION
Registration for the 6th Biennial Schizophrenia International Research Society Conference is located at the Main Entrance of Firenze Fiera Congress Center, Piazza Adua.

DATE TIME
Wednesday, 4 April 11:00 AM – 7:30 PM
Thursday, 5 April 8:00 AM – 6:30 PM
Friday, 6 April 8:00 AM – 7:00 PM
Saturday, 7 April 8:00 AM – 8:00 PM
Sunday, 8 April 8:00 AM – 12:00 PM
REGISTRATION TYPES:
Delegate: Scientific Attendee
Student: Full-time graduate students, medical students, or students in the first two years of a post-doctoral fellowship program at a university in a field relevant to schizophrenia research. A letter from the student’s immediate supervisor verifying his/her student status and relevant field will be required for registration.

WELCOME RECEPTION TICKET:
The €60 fee includes welcome reception.

REGISTRATION FEES:

<table>
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<tr>
<th>Category</th>
<th>Up to 1 March 2018</th>
<th>2 March or later</th>
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<tr>
<td>SIRS 2017 and 2018 Member</td>
<td>450.00€</td>
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<tr>
<td>SIRS 2018 New Member</td>
<td>490.00€</td>
<td>540.00€</td>
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<tr>
<td>SIRS 2017 and 2018 Student Member</td>
<td>170.00€</td>
<td>220.00€</td>
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<tr>
<td>SIRS 2018 New Student Member</td>
<td>210.00€</td>
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<td>Non-Member Delegate</td>
<td>700.00€</td>
<td>750.00€</td>
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<tr>
<td>Non-Member Student</td>
<td>250.00€</td>
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<td>Welcome Reception Ticket</td>
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REGISTRATION TIME FRAMES:
Regular: Register June 2017 – 2 March 2018
Late: Register 3 March 2018 – onsite

COMPUTER ACCESS
Complimentary wireless internet is available in the conference center. To access the wireless internet, input “SIRS2018” as the username and “SIRS2018” as the password. Conference attendees may also use the Computer Center located in the Limonaia Building.

The Computer Center is provided this year for the convenience of meeting attendees who wish not to bring a laptop. The Computer Center will be open the following hours:

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<td>Sunday, 8 April</td>
<td>8:00 AM – 12:00 PM</td>
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SPEAKER READY ROOM:
A speaker ready room is available in Sala 103 in the Palazzo Congressi. All presenters are required to come to the speaker ready room to upload your presentation, preferably 24-hours prior to the presentation. Presentations from individual computers are not permitted. Below are the hours for the Speaker Ready Room:

<table>
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<td>Sunday, 8 April</td>
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ABSTRACTS:
Abstracts for all presentations are available online at www.SchizophreniaConference.org.

Abstracts will be published electronically by *Schizophrenia Research* and will be available as an electronic flipbook and as a PDF document.

Awards

The Awards Committee and Board of Directors of the Schizophrenia International Research Society are pleased to announce the Society's Honorific Award Winners.

SIRS LIFETIME ACHIEVEMENT AWARD

Patrick McGorry, FRCP, M.D., Ph.D., President

Professor Patrick McGorry is the Executive Director of Orygen, Professor of Youth Mental Health at The University of Melbourne, and a Director of the Board of the National Youth Mental Health Foundation (headspace). He is a world-leading researcher in the area of early psychosis and youth mental health, and has a strong interest in promoting the mental health of the homeless, refugees and asylum seekers.

His work has played a critical role in the development of safe, effective treatments and innovative research into the needs of young people with emerging mental disorders, notably psychotic and severe mood disorders. He has also played a major part in the transformational reform of mental health services to better serve the needs of vulnerable young people.

*continued on next page*
Professor McGorry was a key architect of the headspace model and has been successful in advocating with colleagues for its national expansion. He has successfully advocated for the establishment of a national early psychosis programme based on the Early Psychosis Prevention and Intervention Centre model. He is frequently asked to advise on youth mental health policy both nationally and internationally.

Professor McGorry has published extensively in the specialist literature, and serves as Editor-in-Chief of Early Intervention in Psychiatry. He is a Fellow of the Australian Academy of Science, Academy of the Social Sciences in Australia, the current President of the Society for Mental Health Research, and the President of the Schizophrenia International Research Society.

OUTSTANDING BASIC RESEARCH

Kim Do, D. Sci.

Professor Kim Q. Do is Director of the Center for Psychiatric Neuroscience (Department of Psychiatry, Lausanne University Hospital, Switzerland) and head of the Unit for Research in Schizophrenia (URS). Her major interest lies in bridging basic neuroscience with problems of clinical psychiatry.

She started her career in basic research in chemistry, molecular biology (Federal School of Technology Zurich, ETHZ, Switzerland) and neurobiology (Brain Research Institute, Zurich University), where she highlighted the important role of neuro-glial interaction in excitatory amino acids and nitric oxide transmission.

In 1999, she moved towards “bench to bed” research at the Center for Psychiatric Neuroscience (Department of Psychiatry, Lausanne University Hospital). She set up a translational research program aimed at a better understanding of the causes and mechanisms leading to schizophrenia phenotypes in order to develop markers for early diagnosis, new drug targets as well as preventive and therapeutic measures. She established close collaboration with psychiatrists and developed a multidisciplinary team of excellent young researchers. In addition, she achieved to promote and mentor a new generation of psychiatrists with combined clinical and neuroscientific expertise.

Building on an innovative hypothesis, her work pioneered the involvement of a pathophysiological “hub” in which oxidative stress/redox dysregulation interacts with NMDAR hypofunction, neuroinflammation and dopamine imbalance, leading to the impairment of neural connectivity and synchronization, and to cognitive deficits as observed in patients. Using various experimental models relevant to schizophrenia and autism, her group demonstrated that oxidative stress during brain development impairs myelin formation, and selectively and permanently affects prefrontal parvalbumine GABA interneurons.

Based on these relevant neurobiological data, she spearheaded a clinical study in which a precursor of GSH, N-acetylcysteine (NAC), was administered to chronic patients. This double blind, placebo controlled add-on clinical trial with NAC showed a net improvement in negative symptoms, in auditory evoked
potentials (mismatch negativity), neural synchronization and produced no side effects. Following this exciting proof of concept, she initiated a clinical trial with young first-episode patients, revealing that NAC increased brain GSH levels, improved neurocognition, fornix white matter integrity, and functional connectivity. More importantly, in a subgroup of patients with a high blood oxidative marker, NAC improved positive symptoms, in parallel with changes in the peripheral redox status. Her translational research thus paves the way for promising biomarker guided treatments and prevention.

Her lab is currently investigating biomarkers for early detection, and developing innovative therapeutics to impact the emergence of mental disorders. As Director of the Center for Psychiatric Neuroscience and in addition to her research activities, Professor Kim Q. Do also works on professional education and public outreach towards better care and cure of major psychiatric disorders. Professor Do’s research has been supported by the Swiss National Science Foundation, the Human Frontier Science Program, as well as various institutions and foundations of the private sector in Switzerland and abroad. She received the NARSAD Independent Investigator Award from the Brain & Behavior Research Foundation (USA) in 2006, and the NARSAD Distinguished Investigator Award in 2010.

OUSTANDING CLINICAL/COMMUNITY RESEARCH

Ashok Malla, FRCP
dr. Ashok Malla is a professor of psychiatry at McGill University, with an adjunct appointment in Epidemiology and Biostatistics. he holds a Tier 1 Canada Research Chair in Early Psychosis and Early Intervention in Youth Mental Health and is a recipient of an honorary doctorate from l’Université de Montréal (2015). he has founded two leading Prevention and Early intervention Programs for Psychoses (PEPP) in Montréal and London, Ontario and, more recently the Canadian Consortium of Early Intervention Programs for Psychosis. he has led many clinical research projects investigating the neurobiological, psychosocial, and cross-cultural aspects of multidimensional outcomes in early phase of psychotic disorders and early intervention. His research work in early intervention in psychosis has been centred around the objective of improving outcome for young patients with psychosis.

He is currently leading two global mental health projects: understanding differences in outcome in first episode psychosis in India and Canada, and application of a low-cost lay health worker model of mental health service delivery in rural parts of conflict ridden Kashmir, India. He now leads a $25M, national research project on transformation of youth mental health services (ACCESS OPEN MINDS Canada), under the Strategy for Patient Oriented Research (SPOR) of the Canadian Institutes of Health Research (CIHR), informed by his previous work in early psychosis. He has published more than 325 peer-reviewed articles, held numerous peer-reviewed research grants, supervised many graduate and post-doctoral students, residents and fellows, has been an advisor on program development and research in early intervention in psychotic disorders in several countries. He has worked tirelessly as an advocate for high quality care for the seriously mentally ill. He is also an editor of Social Psychiatry and Psychiatric Epidemiology.
RISING STAR

Lena Palaniyappan, M.D.

Dr. Palaniyappan is a psychiatrist with a training background in psychology, neuroimaging and systems approach in neuroscience. He is Director of The Prevention and Early Intervention Program for Psychosis in London, Ontario and Associate Professor at the Departments of Psychiatry and Medical Biophysics at the University of Western Ontario. He is also a clinician scientist at Robarts Research Institute and Lawson Health Research Institute in London, Ontario, where he leads Neuroimaging in Mental Illness (NIMI) research group.

He trained as a physician in India, psychiatrist in the UK and a currently being trained as a parent of 2 toddlers in Canada!

The major emphasis of his current work, which originally began in Nottingham in collaboration with Prof. Peter Liddle, is on applying brain imaging to investigate symptom burden, treatment response and prognostic accuracy both in psychotic and affective disorders. The clinical goal of this approach is to understand the pathways that lead to poor long-term outcome in certain individuals with serious mental disorders. To this end, his group concentrates on understanding the intrinsically organized, large-scale brain networks in psychosis. In recent times, this has contributed to developing and testing a specific hypothesis in relation to the dysfunction of ‘salience’ network in psychosis, expounding the role of gyrification as a marker of prognosis and the synthesizing the concept of progressive post-psychotic reorganization of brain structure in schizophrenia.

His group’s work has been supported by the Canadian Institute of Health Research (Foundation Grant, Project Grant), Wellcome Trust, Medical Research Council (UK) and European Commission (7th Framework) and several local and regional charities that support research for patient benefit.
POSTER AWARDS

npj Schizophrenia and Schizophrenia Bulletin will award poster prizes during the Closing Session on Sunday, 8 April at 9:30 AM. The SIRS Awards Committee will collaborate with journal editors to select the awards recipients. All three journals require that researchers be less than 40 years of age at the time of the conference for consideration.

The Schizophrenia Research Founding Editors Award will recognize the best paper by both a Young Investigator and by a Senior Investigator. Each will be determined by the journal’s Editors.

CONGRATULATIONS TO THE 2018 TRAVEL FELLOWS:

Ozge Akgul
Dana Allswede
Linda Antonucci
Marieke Begemann
Hengyi Cao
Fernando Caravaggio
Radhika Chadha
Adam Chekroud
Leticia Czepielewski
Maria Ferrara
Gagan Fervaha
Joseph Firth
Yoji Hirano
Philipp Homan
Yusuke Iwata
Sameer Jauhar
Hannah Jones
Pernille Kølbæk
Zhi Li
Chenxing Liu
Carolina Makowski
Paul Metzak
Kim Minah
Natasza Orlov

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The Netherlands
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Canada
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The Netherlands
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Brazil

Pedro Pan
Baptiste Pignon
Toby Pillinger
Eric Plitman
Diego Quattrone
Katya Rubinstein
Jose Rubio
Cristina Scarpazza
Frederika Scheffler
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Esther Setién-Suero
Mamidipalli Spoorthy
Jean Stafford
Branden Stansley
Katharina Stegmayer
Wolfgang Strube
Karuna Subramaniam
Eric Tan
Huai-Hsuan Tseng
Gianluca Ursini
Bita Vahdani
Claudia Vingerhoets
Samantha Yohn

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Canada
United Kingdom
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South Africa
Switzerland
United Kingdom
Spain
India
United Kingdom
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Switzerland
Germany
USA
Australia
Taiwan
USA
Iran
The Netherlands
USA

The TRAVEL FELLOW AND MENTOR RECEPTION will be held on Friday, 6 April from 5:45 PM – 6:45 PM on the 4th floor of the Affari Building (Invitation Only).
KEYNOTE LECTURE: ALASTAIR CAMPBELL

Wednesday, 4 April, 6:15 PM – 7:15 PM
Congressi Auditorium

Alastair Campbell is best known for his role as former British Prime Minister’s Tony Blair’s spokesman, press secretary and director of communications and strategy. He is involved in multiple mental health charities campaigning to break down the stigma and taboo of mental illness. He will provide a unique perspective on mental health during his keynote lecture titled, *Changing the Lens on Mental Health*. He lives mainly in London, with his partner of 36 years, journalist and education campaigner Fiona Millar.

PLENARY SPEAKERS

William T. Carpenter, Jr., M.D.
The Near Future for Schizophrenia (Psychosis) Research

John F. Cryan, Ph.D.
The Gut Microbiome: A Key Regulator of Neurodevelopment and Behaviour

Gail L. Daumit, M.D.
Decreasing Cardiovascular Risk in Persons with Schizophrenia: Interventions and Future Directions

John Krystal, M.D.
Microcircuits, Macrocircuits, and Cortical Dysfunction in Schizophrenia: A Computational and Translational Neuroscience Perspective

David McDaid
Investing in Recovery – An Economic as well as Moral Imperative

Asya Rolls, Ph.D.
The Complex Interactions Between Mind and Body: It Takes a Brain to Control Immunity

Cynthia Shannon Weickert, BA, MPhil, Ph.D.
On the Road to Curing Schizophrenia
PLENARY SESSIONS

Thursday, 5 April
Congressi Auditorium

8:30 AM – 9:30 AM  Microcircuits, Macrocircuits, and Corticol Dysfunction in Schizophrenia: A Computational and Translational Neuroscience Perspective  
John Krystal

2:00 PM – 3:00 PM  Decreasing Cardiovascular Risk in Persons with Schizophrenia: Interventions and Future Directions  
Gail Daumit

Friday, 6 April
Congressi Auditorium

8:30 AM – 9:30 AM  On the Road to Curing Schizophrenia  
Cynthia Shannon Weickert

2:00 PM – 3:00 PM  The Near Future for Schizophrenia (Psychosis) Research  
William Carpenter

Saturday, 7 April
Congressi Auditorium

8:30 AM – 9:30 AM  The Complex Interactions between Mind and Body: It Takes a Brain to Control Immunity  
Asya Rolls

2:00 PM – 3:00 PM  Investing in Recovery – An Economic as Well as Moral Imperative  
David McDaid

Sunday, 8 April
Congressi Auditorium

8:30 AM – 9:30 AM  The Gut Microbiome: A Key Regulator of Neurodevelopment and Behaviour  
John F. Cryan
SYMPOSIA SESSIONS
The title and location of each symposium is indicated in the program. The presentations in each session are scheduled at approximately 20 – 25 minute intervals. A general discussion period is scheduled after the last presenter in each session. Symposia are scheduled:

Thursday, 5 April  
10:00 AM – 12:00 PM
3:30 PM – 5:30 PM

Friday, 6 April  
10:00 AM – 12:00 PM
3:30 PM – 5:30 PM

Saturday, 7 April  
10:00 AM – 12:00 PM

Sunday, 8 April  
10:00 AM – 12:00 PM

ORAL PRESENTATIONS
Two oral presentation sessions are scheduled on Saturday, 7 April from 3:15 PM – 5:15 PM and again from 5:30 PM – 7:30 PM. Within the concurrent sessions, there are 8 individual presentations. Oral sessions scheduled:

Biomarkers  
Chair: Anthony Grace

Cognition  
Chair: Susan Rossell

fMRI  
Chair: Mette Nielsen

Genetics  
Chair: Gianluca Ursini

Comorbidity  
Chair: Fiona Gaughran

Neuroimaging  
Chair: Elisabetta Del Re

Pharmacology  
Chair: Stefan Leucht

Outcome  
Chair: Eric Chen

Prediction  
Chair: Alexis Cullen

Risk Factors  
Chair: Jessica Hartmann

Services and Other Interventions  
Chair: Shon Lewis

Socio-economic/Environment  
Chair: Merete Nordentoft
POSTERS
Three poster sessions have been scheduled. Presenters should put their poster up by 9:00 AM and remove the poster by 3:00 PM on the day it is scheduled. Poster presentations are grouped by general topic when possible. All three poster sessions are located in the Cavaniglia. Lunch will be served each day with the poster session. Poster viewing will be open until 3:00 PM. E-Posters are available for viewing online at www.SchizophreniaConference.org.

<table>
<thead>
<tr>
<th>Thursday, 5 April</th>
<th>Poster Session I</th>
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<tr>
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<tr>
<th>Friday, 6 April</th>
<th>Poster Session II</th>
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<td>12:00 PM – 2:00 PM</td>
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<tr>
<th>Saturday, 7 April</th>
<th>Poster Session III</th>
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<tbody>
<tr>
<td>12:00 PM – 2:00 PM</td>
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</tbody>
</table>

REFRESHMENT BREAKS:
All registered individuals are invited. Coffee and light pastries are available Thursday through Sunday mornings at 8:00 AM. The morning break will be located in the Passi Perduti, located outside the Auditorium.

Afternoon coffee/tea breaks will be available Thursday – Saturday outside the Palazzo Affari meeting rooms, the Auditorium and the Sala Verde.

LUNCHEONS:
Buffet lunch will be served Thursday through Saturday from 12:00 PM – 2:00 PM in the Cavaniglia during the poster sessions.
Poster Sessions and lunches will be held at the Fortezza da Basso in the Cavaniglia. This is a short 3 to 5 minute walk from the Palazzo de Congressi.
Concurrent Symposia and Oral Presentations will be held on the Lower Level, Ground Level, First Level, Second Level of the Palazzo degli Affari.

The Computer Center will be located in the Limonaia building just between the Palazzo Degli Affari and the Villa Vittoria.
Keynote, Plenary Sessions and some Symposia and Oral Presentations will be held in the Auditorium.
The Speaker Ready Room (Sala 103) and other small meeting rooms and committee meetings will be in the Villa Vittoria Building on the 1st Floor and 2nd Floor. The Villa Vittoria building is connected to the Auditorium.

The Sala Verde room is on the 2nd floor of the Villa Vittoria building.
7 AM  
8 AM  
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6:00 PM  
7:15 PM  
Opening and Keynote  
5:30 PM  
6:00 PM  
Coffee Break  
7:15 PM  
9:00 PM  
Opening Reception  
11:00 AM  
7:30 PM  
Registration  
1:00 PM  
7:00 PM  
Speaker Ready Room  
11 AM  
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22  
5:30 PM  
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Coffee Break  
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Speaker Ready Room  
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9 PM  
Legend: Keynote Special Session Speaker Ready Registration Computer Center Symposia Poster Session Plenary Oral Presentation Coffee Break
### Wednesday, 4 April 2018

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>SIRS EXECUTIVE BOARD MEETING (INVITATION ONLY)</strong></td>
<td>11:00 AM - 2:00 PM</td>
<td>Congressi, Sala 101</td>
</tr>
<tr>
<td><strong>REGISTRATION</strong></td>
<td>11:00 AM - 7:30 PM</td>
<td>Palazzo Entrance</td>
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<tr>
<td><strong>SPEAKER READY ROOM</strong></td>
<td>1:00 PM - 7:00 PM</td>
<td>Congressi, Sala 103</td>
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<tr>
<td><strong>COMPUTER CENTER</strong></td>
<td>1:00 PM - 7:00 PM</td>
<td>Limonaia Building</td>
</tr>
<tr>
<td><strong>COFFEE BREAK</strong></td>
<td>5:30 PM - 6:00 PM</td>
<td>Congressi, Passi Perduti</td>
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<tr>
<td><strong>CONFERENCE OPENING AND HONORIFIC AWARD CEREMONY</strong></td>
<td>6:00 PM - 6:15 PM</td>
<td>Congressi Auditorium</td>
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<tr>
<td><strong>KEYNOTE SESSION</strong></td>
<td>6:15 PM - 7:15 PM</td>
<td>Congressi Auditorium</td>
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<tr>
<td><strong>KEYNOTE LECTURE:</strong> Alastair Campbell - Changing the Lens on Mental Health</td>
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<tr>
<td><strong>OPENING RECEPTION</strong></td>
<td>7:15 PM - 9:00 PM</td>
<td>Congressi, Passi Perduti</td>
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<tr>
<td>Time</td>
<td>Auditorium</td>
<td>Sala Verde</td>
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<tr>
<td>8:30 AM - 9:30 AM</td>
<td>Microcircuits, Macrocircuits, and Cortical Dysfunction in Schizophrenia</td>
<td>10:00 AM - 12:00 PM</td>
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<td>9:30 AM</td>
<td>Break</td>
<td>11:00 AM - 12:00 PM</td>
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<tr>
<td>10:00 AM</td>
<td>Pharmaceutical Pipeline</td>
<td>1:00 PM - 2:00 PM</td>
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<tr>
<td>10:00 AM - 12:00 PM</td>
<td>Innovative Approaches to Early Identification and Treatment Using Mobile Health Technology to Improve Outcomes in Schizophrenia</td>
<td>Coffee Break</td>
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<tr>
<td>3:00 PM</td>
<td>Coffee Break</td>
<td>3:00 PM - 5:00 PM</td>
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<tr>
<td>3:30 PM - 5:00 PM</td>
<td>Endocannabinoid Modulation of Dopamine Neurotransmission</td>
<td>3:00 PM - 5:00 PM</td>
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<tr>
<td>3:30 PM</td>
<td>The Molecular Mechanisms of Schizophrenia From Glial Cells Perspective</td>
<td>3:00 PM - 5:00 PM</td>
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<tr>
<td>3:30 PM - 5:00 PM</td>
<td>Aerobic Exercise Training for Individuals With Schizophrenia: The Broad Benefits</td>
<td>3:00 PM - 5:00 PM</td>
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<tr>
<td>3:30 PM - 5:00 PM</td>
<td>Does Biology Read the DSM? Transdiagnostic Findings in Psychosis and Implications for Treatment</td>
<td>3:00 PM - 5:00 PM</td>
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<tr>
<td>3:30 PM</td>
<td>Synaptic Dysfunction in Schizophrenia: Exploration of Novel Hypotheses and Promising New Leads</td>
<td>3:00 PM - 5:00 PM</td>
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</tbody>
</table>

Legend: Keynote, Special Session, Speaker Ready, Registration, Computer Center, Symposia, Poster Session, Plenary, Oral Presentation, Coffee Break
John Krystal  
Yale University School of Medicine, United States

Abstract: Computational neuroscience may be a critical component of the effort to understand how cortical micro- and macro-circuits support behavior and express the symptoms of neuropsychiatric disorders. This presentation will present an update on an ongoing interdisciplinary effort to understand the role of compromised glutamate synaptic signaling, particularly related to the NMDA glutamate receptor, for the pathophysiology of schizophrenia. This presentation will draw on studies in animal models, healthy humans, and schizophrenia patients. It will draw parallels between the effects of the NMDA receptor antagonist, ketamine, and working memory impairment and abnormalities in cortical functional connectivity in schizophrenia. In so doing, it will highlight examples where computational approaches have affirmed hypotheses arising from experimental work or contributed new predictions that could be tested experimentally. Lastly, it will illustrate a prediction about novel therapeutics for schizophrenia that are embedded in an emerging developmental model for this disorder.
CONCURRENT SYMPOSIA

PHARMACEUTICAL PIPELINE
Location: Congressi Auditorium

10:00 AM  MIN-101 a sigma2/5HT2 Compound for the Treatment of Negative Symptoms in Schizophrenia
Michael Davidson

10:40 AM  Using Imaging and Behavioral Methods Probing Reward Functions as Tools for Decision Making in a Proof-Of-Mechanism Study of the PDE10 Inhibitor RG7203 in Patients with Schizophrenia and Negative Symptoms
Daniel Umbricht

11:20 AM  SEP-363856, a Candidate Antipsychotic and Antidepressant Compound with a Novel Non-D2 Mechanism of Action
Kenneth Koblan

INNOVATIVE APPROACHES TO EARLY IDENTIFICATION AND TREATMENT: USING MOBILE HEALTH TECHNOLOGY TO IMPROVE OUTCOMES IN PSYCHOSIS
Location: Congressi, Sala Verde
Chair: Laura Tully

10:00 AM  Enhancing Early Psychosis Treatment Using Smartphone Technology: Integration of a Mobile Health Platform in Four Early Psychosis Programs
Laura Tully

10:25 AM  A Technology-Enhanced Intervention to Reduce the Duration of Untreated Psychosis Through Rapid Identification & Engagement
Tara Niendam

10:50 AM  Enhancing Social Functioning and Long-Term Recovery in Young People With First Episode Psychosis (FEP) and Young People at Ultra High Risk (UHR) for Psychosis: A Novel Online Social Therapy Approach
Mario Alvarez-Jimenez

11:15 AM  Internet-Based Interventions for Bipolar Disorder
Diego Hidalgo-Mazzei

Discussant: Chantel Garrett
RETINAL FUNCTIONS EXPRESSED IN RETINAL IMAGING, CONTRAST PROCESSING AND ELECTRORETINOGRAPHY MAY DECRYPT EARLY RISK MECHANISMS AND PATHOPHYSIOLOGY OF SCHIZOPHRENIA AND MOOD DISORDERS AND ACCELERATE TRANSLATION TO THE CLINIC

Location: Affari, Ground Level
Chair: Michel Maziade

10:00 AM  
Electroretinographic Anomalies in Schizophrenia and Their Relationships With Retinal Structure, Visual Functions, Clinical Symptoms, and Medical Comorbidities  
Steven Silverstein

10:25 AM  
Electroretinographic Anomalies Seen in Patients Affected by Schizophrenia or Bipolar Disorder are Detectable Early in Children Born to an Affected Parent: Implications for the Staging of Risk Status in Childhood-Adolescence  
Michel Maziade

10:50 AM  
Evaluating the Neurobiological Correlates and Impact of Treatment on Cognitive Dysfunction in ADHD and Schizophrenia by Means of the Pattern Electroretinogram  
Emanuel Bubl

11:15 AM  
Phenotypic and Genetic Associations Between Schizophrenia and Retinal Vessel Diameter  
Madeline Meier

Discussant: Anne Giersch

EXCITATION-INHIBITION IMBALANCES IN SCHIZOPHRENIA: MECHANISMS AND INTERVENTIONS

Location: Affari, Lower Level
Chair: Lawrence Kegeles

10:00 AM  
Enhanced Parvalbumin Network Activity Prolongs Critical Period Plasticity  
Hensch Takao

10:25 AM  
Parvalbumin Interneuron Impairment Induced by Oxidative Stress as a Common Pathological Mechanism in Animal Models of Schizophrenia  
Jan Harry Cabungcal

10:50 AM  
Disturbances in Neural Oscillations, Glutamate, and GABA: Effects of Ketamine and Comparison to Schizophrenia  
Lawrence Kegeles

11:15 AM  
Neural Oscillations and Excitation/Inhibition Balance in Schizophrenia: A Developmental Perspective  
Peter Uhlhaas

Discussant: Kim Do
FACT OR ARTIFACT? BENEFITS AND LIMITATIONS OF ADVANCED NEUROIMAGING METHODS FOR PSYCHOSIS

Location: Affari, First Level
Chair: Ofer Pasternak

10:00 AM  *Study of Altered Neuroimmunity in Psychosis Using PET-Based Imaging of the Translocator Protein 18 KDa: Promises, Pitfalls, and Future Directions*
Jennifer Coughlin

10:25 AM  *Microstructural Imaging With Advanced Diffusion MRI Methods – What is Gained and What is Lost?*
Ofer Pasternak

10:50 AM  *EEG as a Tool for Psychosis Research: Challenges, Pitfalls and New Opportunities*
Christoph Mulert

11:15 AM  *Brain Functional Connectomics Based on Resting State fMRI: From Nodes to Networks*
Juan Zhou

Discussant: Christos Pantelis

RETHINKING THE TAXONOMY, COURSE, AND OUTCOME OF PSYCHOSES: DIMENSIONAL, LATENT TRAJECTORY, AND TRANSDIAGNOSTIC APPROACHES

Location: Affari, Second Level
Chair: William Carpenter
Co-Chair: Peter Jones

10:00 AM  *Dimensions of Psychosis and Their Trajectories During Two Decades After First Hospitalization*
Roman Kotov

10:25 AM  *Rethinking the Course of Psychotic Disorders: Identifying Latent Trajectories*
Craig Morgan

10:50 AM  *Evidence on a Transdiagnostic Psychosis Spectrum of Schizophrenia, Schizoaffective and Psychotic Bipolar Disorder in the Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP)*
Ulrich Reininghaus

11:15 AM  *Biological and Epidemiological Examination of Transdiagnostic and Specific Symptom Dimensions at Psychosis Onset: Findings From the EUGEI Study*
Diego Quattrone

Discussant: Robin Murray

★ – Travel Awardee
POSTER SESSION I / LUNCH  
Location: Cavaniglia
Buffet Lunch will be served daily in the poster session. Please see page 68 for a complete listing of posters.

PLENARY SESSION: DECREASING CARDIOVASCULAR RISK IN PERSONS WITH SCHIZOPHRENIA: INTERVENTIONS AND FUTURE DIRECTIONS  
Location: Congressi Auditorium
Gail Daumit  
Johns Hopkins Medical Institutions, United States

Abstract: Persons with schizophrenia experience two to three times higher mortality than the overall population. This premature death is due in large part to cardiovascular disease and is potentially preventable. All cardiovascular risk factors are elevated in persons with schizophrenia. This presentation will describe the evidence for interventions to reduce cardiovascular risk factors in this vulnerable population, including obesity and tobacco smoking, and will describe models of integrated physical and mental health care. Ongoing research on interventions to decrease cardiovascular risk in schizophrenia will be presented, and future research needs will be discussed including implementation strategies to scale-up interventions to reduce cardiovascular disease risk in community settings.

COFFEE BREAK  
Location: Congressi, Passi Perduti

CONCURRENT SYMPOSIA  
VIOLENCE IN SCHIZOPHRENIA: PREVALENCE, MEASUREMENT, PREDICTION AND PREVENTION  
Location: Congressi Auditorium
Chair: Mark Weiser

3:30 PM  
Violent Crime in Schizophrenia and Bipolar Disorder: A Population-Based Study  
Mark Weiser

3:55 PM  
Structured Risk Assessment in Psychiatry  
Seena Fazel

4:20 PM  
Causes and Prevention of Aggression From Psychotic Inpatients  
Henk Nijman

4:45 PM  
Follow-Up Treatment for Individuals With Serious Mental Illness Who Have Committed Major Crimes  
E. Fuller Torrey

Discussant: Robert Zipursky
**ENDOCANNABINOID MODULATION OF DOPAMINE NEUROTRANSMISSION**

**Location:** Congressi, Sala Verde  
**Chair:** Michael Bloomfield

**3:30 PM** *Endocannabinoid Modulation of Dopamine Neurotransmission*  
Fabricio Moreira

**3:55 PM** *Cannabidiol as an Antipsychotic Drug*  
Francisco Guimaraes

**4:20 PM** *Effects of Cannabinoids on a Human Oligodendrocyte Culture: Implications for Schizophrenia*  
Valéria Almeida

**4:45 PM** *Cannabinoid Receptor Gene Polymorphisms and Cognitive Performance in Patients With Schizophrenia*  
Joao Salgado

**Discussant:** Marta Di Forti

**THE MOLECULAR MECHANISMS OF SCHIZOPHRENIA FROM GLIAL CELLS PERSPECTIVE**

**Location:** Affari, Ground Level  
**Chair:** Sabina Berretta

**3:30 PM** *Stem Cell-Derived in Vitro Models for Depicting the Role of Glia in Schizophrenia From a Proteomic Perspective*  
Juliana Nascimento

**3:55 PM** *Redox Dysregulation, Oligodendrocytes and White Matter Alterations in Schizophrenia*  
Paul Klauser

**4:20 PM** *Glia-Extracellular Matrix Interactions in the Pathophysiology of Schizophrenia and Bipolar Disorder*  
Sabina Berretta

**4:45 PM** *Diffusion Weighted Spectroscopy Studies of Cell-Type Specific Abnormalities in Schizophrenia*  
Dost Ongur

**Discussant:** Johann Steiner
AEROBIC EXERCISE TRAINING FOR INDIVIDUALS WITH SCHIZOPHRENIA: THE BROAD BENEFITS ACROSS PHYSICAL HEALTH, COGNITION, AND EVERYDAY FUNCTIONING AND PROMISING MECHANISMS OF ACTION

Location: Affari, Lower Level
Chair: Keith Nuechterlein

3:30 PM  Effect of Interval Training on Metabolic Risk Factors in Overweight Individuals With Psychosis: A Randomized Controlled Trial
          Amal Abdel-Baki

3:55 PM  The Impact of Aerobic Exercise on Cognitive Functioning and Biomarkers of Cognitive Change in Individuals With Schizophrenia
          David Kimhy

4:20 PM  Clinical and Neurobiological Effects of a Continuous Aerobic Endurance Training in Multi-Episode Schizophrenia Patients
          Berend Malchow

          Keith Nuechterlein

Discussant: Peter Falkai

DOES BIOLOGY READ THE DSM? TRANSDIAGNOSTIC FINDINGS IN PSYCHOSIS AND IMPLICATIONS FOR TREATMENT

Location: Affari, First Level
Chair: Michael Owen
Co-Chair: Marieke Wichers

3:30 PM  Genomics and Psychiatric Diagnosis
          Michael Owen

3:55 PM  Brain Structural and Neurochemical Heterogeneity and Homogeneity in Psychotic Disorders: Transdiagnostic PET and MRI Imaging Findings in Schizophrenia and Bipolar Affective Disorder
          Oliver Howes

4:20 PM  Psychosis Biotypes Versus Clinical Syndromes Through the Prism of Intrinsic Neural Activity
          Brett Clementz

4:45 PM  Complex System Theory and the Transdiagnostic Use of Early Warning Signals to Foresee the Type of Future Transitions in Symptoms
          Marieke Wichers

Discussant: Lynn DeLisi
SYNAPTIC DYSFUNCTION IN SCHIZOPHRENIA: EXPLORATION OF NOVEL HYPOTHESES AND PROMISING NEW LEADS

Location: Affari, Second Level
Chair: Laura Rowland

3:30 PM  
**Cell-Subtype Specific Bioenergetic Defects in Schizophrenia**  
Robert McCullumsmith

3:55 PM  
**Metabolic Consequences of Developmental NMDA Receptor Hypofunction**  
Amy Ramsey

4:20 PM  
**System Xc- as a Novel Modulator of Corticostriatal Neurotransmission**  
Eduard Bentea

4:45 PM  
**Brain Lactate is Related to Cognition in Schizophrenia**  
Laura Rowland

Discussant: Fernanda Laezza

SIRS BUSINESS MEETING (SIRS MEMBERS ONLY)  
5:45 PM – 6:45 PM
Location: Congressi Auditorium
### Agenda Overview

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<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>Auditorium</td>
<td>Keynote</td>
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<tr>
<td>10:00 AM</td>
<td>Sala Verde</td>
<td>Travel Fellow and Mentor Reception</td>
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<tr>
<td>10:00 AM</td>
<td>Palazzo Affari</td>
<td>Coffee Available</td>
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<tr>
<td>12:00 PM</td>
<td>Palazzo Affari</td>
<td>Corporate Sponsor Luncheon</td>
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<tr>
<td>2:00 PM</td>
<td>Sala 103</td>
<td>Speaker Ready Room</td>
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<tr>
<td>8:00 AM</td>
<td>Limonaia</td>
<td>Computer Center</td>
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<td>8:00 AM</td>
<td>Passi Perduti</td>
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<tr>
<td>5:30 PM</td>
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**Legend:**
- **Keynote**
- **Special Session**
- **Speaker Ready**
- **Registration**
- **Computer Center**
- **Symposia**
- **Poster Session**
- **Plenary**
- **Oral Presentation**
- **Coffee Break**
Friday, 6 April 2018

REGISTRATION
Location: Palazzo Entrance
8:00 AM - 7:00 PM

PLENARY SESSION: ON THE ROAD TO CURING SCHIZOPHRENIA
Location: Congressi Auditorium
8:30 AM - 9:30 AM

Cynthia Shannon Weickert
Neuroscience Research Australia: Schizophrenia Research Laboratory, Australia

Abstract: I began my journey to find out what caused schizophrenia around the time me and my twin brother, Scott David, turned 17. My first step was to conceptualize schizophrenia as a biological, cellular and molecular brain problem. This guided my choice of undergraduate and graduate study. I quickly realized that schizophrenia was not a “genetic” disease, nor was it an “environmental” disease, it was both. I prioritized studying RNA as was the active genome, the subcellular substrate where genes and environment interact. Guided from my own experience of watching my normal twin be tortured by schizophrenia in his teens, I sought to find answers by studying the mammalian brain as it developed and changed during adolescence. For my post-doctoral fellowship, I joined the laboratory of Joel Kleinman, who has the largest and best characterized human brain collection of people with schizophrenia in the world. Along my journey, while at NIMH in the USA, I discovered changes in neuronal growth factors and hormone receptors during stages of postnatal life and in the brains of people with schizophrenia compared to controls using the classical hypothesis-driven approach. Since I moved to Sydney Australia, I choose a different, more open-minded approach and let the brains of those who suffered “tell me what happened to them”, using a modern, sensitive discovery-driven RNAseq approach. When I listened, more carefully at the molecular level, what I found told me that I may be headed down the wrong path with my research and that I needed to change direction. It suggested that the emphasis I placed on development molecules maybe in some ways blinding me from more clearly seeing the neuropathology that existed only in only some people at the time of death. I found elevated inflammatory cytokine mRNAs in ~40% in the brains of those diagnosed with chronic schizophrenia. In this talk, I will review my latest discoveries on neuroinflammation in schizophrenia including evidence of gliosis, blood-brain barrier (BBB) changes and increased white blood cells in the brains of some with schizophrenia. Today, many of my fellow seekers, including geneticists (Chr 6, MHC locus) and epidemiologists (maternal infection) and “animal modelers” (poly I:C), are suggesting that the cause of schizophrenia may involve changes to the immune system. These new discoveries suggest that very first steps I took may have been wrong, that perhaps I should have become an immunologist rather than a neurobiologist. However, from my current vantage point, I believe that even if a fault in the immune system plays a role in the causality of schizophrenia, that neurons are the major protagonist behind the manifestation of schizophrenia. The road ahead suggests that we, as a field, need to do some more trial blazing research that conceptualizes schizophrenia as not a “brain” disease and not as an “immune” disease, but as both.
CONCURRENT SYMPOSIA

IDENTIFYING INDIVIDUALS AT HIGH RISK FOR SCHIZOPHRENIA: LJ SEIDMAN MEMORIAL SYMPOSIUM

Location: Congressi Auditorium
Chair: Lynn DeLisi

10:00 AM  Stress and Cognition in Youth at Clinical Risk for Psychosis
           Elaine Walker

10:25 AM  Familial Risk for Schizophrenia
           David Braff

10:50 AM  Neuroimaging Markers of Risk for and Progression to Full Psychosis in the NAPLS Project
           Tyrone Cannon

11:15 AM  Baseline Clinical and Biological Variables Predicting 1 Year Outcome of Subjects at Clinical High Risk of Psychosis: Insight From Shanghai At Risk for Psychosis (SHARP) Program
           TianHong Zhang

Discussant: Matcheri Keshavan

THE APPLICATION OF STEM CELL MODELS TO VALIDATE RARE AND COMMON VARIANTS CONTRIBUTING TO SCHIZOPHRENIA

Location: Congressi, Sala Verde
Chair: Kristen Brennand

10:00 AM  Dissecting the Functional Consequences of Reciprocal Genomic Disorders
           Michael Talkowski

10:25 AM  Analyzing the Molecular Effects of Large Neuropsychiatric CNVs With iPSC Based Neuronal Tissue Culture Models
           Alexander Urban

10:50 AM  Open Chromatin Analyses Inform Functional Noncoding GWAS Variants in HIPSC Model of Mental Disorders
           Jubao Duan

11:15 AM  Modeling the Contribution of Common Variants to Schizophrenia Risk
           Kristen Brennand

Discussant: Douglas Ruderfer
CANNABIDIOL AS A TREATMENT IN DIFFERENT STAGES OF PSYCHOSIS- EFFICACY AND MECHANISMS

Location: Affari, Ground Level
Chair: Sagnik Bhattacharyya

10:00 AM  A Randomized Controlled Trial of Cannabidiol in Schizophrenia
Philip McGuire

10:25 AM  Efficacy of Cannabidiol in the Treatment of Early Psychosis
Mohini Ranganathan

10:50 AM  Effect of Cannabidiol on Symptoms, Distress and Neurophysiological Abnormalities in Clinical High-Risk for Psychosis Patients: A Placebo-Controlled Study
Sagnik Bhattacharyya

11:15 AM  Possible Mechanisms Involved in the Antipsychotic Effects of Cannabidiol (CBD)
Jose Alexandre Crippa

Discussant: Deepak D’Souza

TRACKING THE MECHANISMS UNDERLYING WORKING MEMORY DYSFUNCTION IN SCHIZOPHRENIA FROM CORTICAL MICROCIRCUITS TO THE SYSTEMS LEVEL

Location: Affari, Lower Level
Chair: Robert Bittner
Co-Chair: Sohee Park

10:00 AM  Molecular Insults to Higher-Order Dorsolateral Prefrontal Cortical Circuits: Implications for the Pathogenesis of Schizophrenia
Dibyadeep Datta

Megan Ichinose

10:50 AM  Disturbed and Intact Attentional Processes During Working Memory Encoding in Schizophrenia: Converging Behavioral and Imaging Genetics Evidence
Robert Bittner

11:15 AM  Characterizing Large-Scale Network Dysconnectivity in Schizophrenia: Modeling Altered E/I Balance
Alan Anticevic

Discussant: Junghee Lee
DEVELOPMENTAL BIOMARKERS OF ENVIRONMENTAL ADVERSITY AND EPIGENETIC RISK FOR MAJOR PSYCHIATRIC DISORDERS: CLUES TO PATHOGENESIS

Location: Affari, First Level
Chair: Kim Do

10:00 AM  Epigenetic Signatures of Childhood and Adolescent Victimisation Using a Genetically Sensitive Longitudinal Cohort Study
Helen Fisher

10:25 AM  Childhood Trauma Engages Oxidative Stress, Hippocampus Alterations, and Poorer Clinical Outcome in Early Psychosis Patients
Luis Alameda

10:50 AM  Methylomic Changes of Oxidative Stress Regulation, Axon Guidance and Inflammatory Pathways During Conversion to Psychosis
Oussama Kebir

11:15 AM  Effect of Genotype and Early Adversity Environment on DNA Methylation
Darina Czamara

Discussant: Philippe Conus

THE IMPLEMENTATION OF COGNITIVE ADAPTATION TRAINING (CAT) ACROSS COUNTRIES

Location: Affari, Second Level
Chair: Dawn Velligan

10:00 AM  From Clinical Trial to the Clinic: Optimizing Cognitive Adaptation Training for Case Management Teams
Sean Kidd

10:25 AM  Recovery Through Relocation: From Nursing Home to Community Using Cognitive Adaptation Training
Natalie Maples

10:50 AM  Applying Cognitive Adaptation Training in Finland: Interim Results of the Finnish Cat Implementation Project
Tuukka Mehtala

11:15 AM  Cat in First-Episode Psychosis: Feasibility, Acceptability and Potential to Enhance Vocational Recovery
Kelly Allott

Discussant: Marieke (Gerdina) Pijnenborg
POSTER SESSION II / LUNCH 12:00 PM - 2:00 PM
Location: Cavaniglia
Buffet Lunch will be served daily in the poster session. Please see page 95 for a complete listing of posters.

PLENARY SESSION: THE NEAR FUTURE FOR SCHIZOPHRENIA (PSYCHOSIS) RESEARCH 2:00 PM - 3:00 PM
Location: Congressi Auditorium

William Carpenter
University of Maryland School of Medicine, United States

Abstract: Implications of a heterogeneous clinical syndrome such as schizophrenia have long been known but little attended. Fundamental problems persist, such as schizophrenia as the phenotype in GWAS studies. But the 21st Century has brought substantial attention to limitations in acquisition of new knowledge. New concepts and methods are being implemented. Selected examples will be reviewed and potential scientific advances that influence clinical care will be outlined. This will include advances in mechanism knowledge, identification of novel targets for therapeutic discovery, re-conceptualization of psychopathology for regulatory purposes, a new integration of behavioral and biological science to inform nosology, enhanced testing of neural circuit hypotheses, and serious attention to primary prevention.

COFFEE BREAK 3:00 PM - 3:30 PM
Congressi, Passi Perduti
CONCURRENT SYMPOSIA

FROM DUSK TILL DAWN: LIFELONG TRAJECTORIES OF COGNITIVE FUNCTIONING IN PSYCHOTIC DISORDERS AND THEIR IMPLICATIONS FOR FUNCTIONAL RECOVERY AND TREATMENT DECISION

Location: Congressi Auditorium
Chair: Eva Velthorst

3:30 PM  Neurocognitive Development From Infancy to Early Adulthood in the Psychosis Spectrum
Josephine Mollon

3:55 PM  Neurocognitive Profiles in the Prodrome to Psychosis in NAPLS-1
Eva Velthorst

4:20 PM  Eighteen-Year Course of Cognitive Functioning in Psychotic Disorders: Findings From the Suffolk County Mental Health Longitudinal Study
Fett Anne-Kathrin

4:45 PM  Cognition and Communication as Determinants of Adaptive Deficits in Late Life Schizophrenia
Philip Harvey

Discussant: Abraham Reichenberg

BEYOND VOICES: MULTISENSORY BODILY SELF DISTURBANCES ACROSS THE SCHIZOPHRENIAN SPECTRUM

Location: Congressi, Sala Verde
Chair: Sohee Park
Co-Chair: Lénie Torregrossa

3:30 PM  Varieties of Self Disorder: A Bio-Pheno-Social Model of Schizophrenia
Barnaby Nelson

3:55 PM  Disorders of the Embodied Self in Schizophrenia: At the Crossroad Between Development and Psychopathology
Andrea Raballo

4:20 PM  Minimal Self in Schizophrenia: The Time Perspective
Anne Giersch

4:45 PM  Flexible Body Boundary and Altered Mapping of the Bodily Self in the Schizophrenia Spectrum; Causes, Processes and Potential Intervention
Sohee Park

Discussant: Francesca Ferri
OLIGODENDROCYTE-BASED IMPAIRMENT OF BRAIN CONNECTIVITY AS TARGET FOR NEW TREATMENT STRATEGIES IN SCHIZOPHRENIA

**Location:** Affari, Ground Level  
**Chair:** Johann Steiner

**3:30 PM**  
*Oligodendrocyte Pathology in Prefrontal White Matter in Schizophrenia*  
Natalya Uranova

**3:55 PM**  
*Understanding White Matter Pathology in Schizophrenia Using Diffusion Tensor Imaging and Magnetic Resonance Spectroscopy*  
Adrienne Lahti

**4:20 PM**  
*Oligodendrocytes Mediate Energy Metabolism Alterations in Schizophrenia: A Proteomic Study*  
Daniel Martins-De-Souza

**4:45 PM**  
*Promoting Myelin Repair Rescues Mice From Schizophrenia-Like Behavior Induced by Social Isolation*  
Lan Xiao

**Discussant:** Andrea Schmitt

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NOVEL APPROACHES TO PSYCHOSIS RISK: MOVEMENT, STRESS MODULATION, REWARD AND LANGUAGE

**Location:** Affari, Lower Level  
**Chair:** Cheryl Corcoran

**3:30 PM**  
*Motor Subtypes and Prediction of Course in Psychosis Risk Youth*  
Vijay Mittal

**3:55 PM**  
*Cortical Stress Regulation is Disrupted in Schizophrenia but Not in Clinical High-Risk for Psychosis*  
Romina Mizrahi

**4:20 PM**  
*Salience Signaling and the Emergence of Psychopathology in Youth at Clinical High Risk for Psychotic Illness*  
James Waltz

**4:45 PM**  
*Language Disturbance as a Predictor of Psychosis Onset in Youth at Enhanced Clinical Risk*  
Cheryl Corcoran

**Discussant:** Patrick McGorry
FRONTAL CORTEX DEVELOPMENT AND RISK FOR PSYCHOPATHOLOGY: MOLECULAR AND GENETIC MEDIATORS AS POSSIBLE BIOMARKERS?

**Location:** Affari, First Level  
**Chair:** Francesco Papaleo

3:30 PM  *Understanding the Role of Schizophrenia/Autism Genes in Cortical Development*  
Helen Cooper

3:55 PM  *Netrin-1 Receptors Control Mesocortical Dopamine Connectivity in Adolescence*  
Cecilia Flores

4:20 PM  *Developmental Trajectories of Schizophrenia-Relevant Abnormalities in a Mouse Model of 22q11.2 Deletion Syndrome*  
Francesco Papaleo

4:45 PM  *Mapping Major Molecular Changes in the Development of the Human Cortex*  
Maree Webster

**Discussant:** Maude Schneider

THE ROLE OF DOPAMINE IN SHAPING CIRCUITRY RELATED TO SCHIZOPHRENIA AND ADDICTION

**Location:** Affari, Second Level  
**Chair:** Anissa Abi-Dargham

3:30 PM  *Translational Evidence of Dopamine-Related Alterations of Basal Ganglia and Thalamo-Cortical Neurocircuitry in Schizophrenia: A Full Clinic-To-Bench-To-Clinic Back-Translation*  
Jared Van Snellenberg

3:55 PM  *The Dopamine Motive System in Addiction*  
Nora Volkow

4:20 PM  *Discrete and Coordinated Encoding of Rewarded Actions by Prefrontal Cortex and Dopamine Neurons*  
Bita Moghaddam

4:45 PM  *Structural, Functional, and Behavioral Insights of Dopamine Dysfunction Revealed by a Deletion in SLC6A3*  
Aurelio Galli

**Discussant:** Andreas Heinz

SIRS TRAVEL FELLOWS & MENTOR RECEPTION (*INVITATION ONLY*)  
5:45 PM - 6:45 PM  
**Location:** Affari, 4th Floor
Friday 6 April
<table>
<thead>
<tr>
<th>Time</th>
<th>Auditorium</th>
<th>Sala Verde</th>
<th>Palazzo Affari Ground Level</th>
<th>Palazzo Affari Lower Level</th>
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<tr>
<td>8:30 AM - 9:30 AM</td>
<td>The Complex Interaction Between Mind and Body: It Takes a Brain to Control Immunity</td>
<td>10:00 AM - 12:00 PM</td>
<td>Prevention of Psychosis: An Individual or Population Approach?</td>
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<td>Stigma and Recovery Among Young People at Risk for Psychosis: Novel Insights From Global Research</td>
<td>10:00 AM - 12:00 PM</td>
<td>Prevention of Psychosis: An Individual or Population Approach?</td>
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Legend: Keynote, Special Session, Speaker Ready, Registration, Computer Center, Symposia, Poster Session, Plenary, Oral Presentation, Coffee Break
Saturday, 7 April 2018

REGISTRATION
Location: Palazzo Entrance 8:00 AM - 8:00 PM

PLENARY SESSION: THE COMPLEX INTERACTIONS BETWEEN MIND AND BODY:
IT TAKES A BRAIN TO CONTROL IMMUNITY
8:30 AM - 9:30 AM
Location: Congressi Auditorium

Asya Rolls
Israel Institute of Technology, Israel

Abstract: Thoughts and emotions can impact physiology. This connection is evident by the emergence of disease following stress or recovery in response to placebo treatment. Nevertheless, this fundamental aspect of physiology remains largely unexplored. We have recently shown that activation of the brain’s reward system, which is active in positive emotional states and positive expectations, boosts immunity. In this talk, I will discuss how brain activity can regulate anti-bacterial and anti-tumor immunity and the potential implications for health and cancer therapy. Given the crucial role of the reward system in emotional processes, our findings offer a new mechanistic insight to the association between the patient’s psychological state, physical health and cancer progression.

BREAK
9:30 AM - 10:00 AM
Location: Congressi, Passi Perduti
CONCURRENT SYMPOSIA

10:00 AM - 12:00 PM

STIGMA AND RECOVERY AMONG YOUNG PEOPLE AT RISK FOR PSYCHOSIS: NOVEL INSIGHTS FROM GLOBAL RESEARCH
Location: Congressi Auditorium
Chair: Sara Evans-Lacko

10:00 AM Drivers of Stigma for the Clinical High Risk State for Psychosis—Is Stigma Due to Symptoms or the At-Risk Identification Itself?
Lawrence Yang

10:25 AM Levels of and Implications for Personal Stigma and Mental Health Literacy in Relation to Psychosis Among Young People with and Without Risk of Developing Psychotic Disorder
Sara Evans-Lacko

10:50 AM Can the Stigmatizing Risks of the ‘At-Risk’ State be Reduced by Relabeling it ‘High-Risk Health’? Promising Pilot Results From Two Experimental Vignette Studies Among the General Population and Mental Health Professionals
Dan Koren

11:15 AM From Personal Experience to Research
Catherine van Zelst

Discussant: Antonio Lasalvia

PREVENTION OF PSYCHOSIS: AN INDIVIDUAL OR POPULATION APPROACH?
Location: Congressi, Sala Verde
Chair: Mary Cannon

10:00 AM Only a Small Proportion of Patients With First Episode Psychosis Come via Prodromal Services. a Retrospective Survey of a Large UK Mental Health Programme
Olesya Ajnakina

10:25 AM Preventing psychosis: What, (if Anything) can We Learn From the EU-GEI Incidence Study?
Hannah Jongsma

10:50 AM Childhood Exposure to Green Space – a Novel Risk-Decreasing Mechanism for Schizophrenia?
Kristine Engemann

11:15 AM A Public Health Approach to the Prevention of Psychosis
Robin Murray

Discussant: Andreas Meyer-Lindenberg
OPTIMISE-ING THE TREATMENT OF FIRST-EPISODE SCHIZOPHRENIA

Location: Affari, Ground Level
Chair: Celso Arango

10:00 AM  
**Optimising the Treatment and Management of First-Episode Schizophrenia: The Optimise Clinical Trial**
René Kahn

10:25 AM  
**Can We Improve Functional Outcome and Adherence in Optimise Participants With a Psychosocial Intervention?**
Richard Drake

10:50 AM  
**Clinical Utility of MRI Scanning in First Episode Psychosis**
Paola Dazzan

11:15 AM  
**Genetic, Immunological and Biochemical Markers of Treatment Response in Schizophrenia**
Marion Leboyer

Discussant: William Carpenter

DIGGING DEEPER IN THE PROTEOME OF SCHIZOPHRENIA

Location: Affari, Lower Level
Chair: Daniel Martins-De-Souza

10:00 AM  
**Mechanisms of Abnormal Posttranslational Protein Processing in Schizophrenia Brain**
James Meador-Woodruff

10:25 AM  
**Abnormalities of Synaptic Proteomes in Schizophrenia**
Robert McCullumsmith

10:50 AM  
**Magnifying the Proteome of Schizophrenia Brains**
Mariana Fioramonte

11:15 AM  
**Altered Complement Pathway Protein Expression is Associated With Psychotic Experiences at Age 11 Which Persist at Age 18**
David Cotter

Discussant: Peter Nilsson
AN IMMUNE PATHOGENESIS OF PSYCHOSIS? EVIDENCE AND CHALLENGES FROM BENCH TO BEDSIDE

Location: Affari, First Level
Chair: Rachel Upthegrove
Co-Chair: Tiago Reis Marques

10:00 AM  
*Immune Pathogenesis of Psychosis: The Challenge of Co-Morbidity*
Rachel Upthegrove

10:25 AM  
*Genetic Variation Related to Immune Function and Schizophrenia Risk: Evidence for Effects on Cognition*
Gary Donohoe

10:50 AM  
*Association Between Serum C-Reactive Protein, Positive and Negative Symptoms of Psychosis in a General Population-Based Birth Cohort*
Golam Khandaker

11:15 AM  
*Prenatal Infection and Long-Term Brain Pathology: From Preclinical Models to Mechanisms*
Tina Notter

Discussant: Bill Deakin

IMPROVING THE DETECTION OF INDIVIDUALS AT RISK OF PSYCHOSIS

Location: Affari, Second Level
Chair: Paolo Fusar-Poli
Co-Chair: Philip McGuire

10:00 AM  
*Do All Individuals with a FEP Pass Through an Earlier CHR-P State? Implications for Clinical Staging, Early Detection and Phase-Specific Interventions*
Jai Shah

10:25 AM  
*Improving the Detection of Individuals at Risk of Psychosis in Secondary Mental Health Care*
Paolo Fusar-Poli

10:50 AM  
*Improving the Detection of Individuals at Risk of Developing Psychosis in Primary Mental Health Care*
Jesus Perez

11:15 AM  
*Improving the Detection of Individuals at Risk of Psychosis in the Community: A Neurodevelopmental Perspective*
Monica Calkins

Discussant: Craig Morgan
POSTER SESSION III / LUNCH

Location: Cavaniglia
Buffet Lunch will be served daily in the poster session.
Please see page 122 for a complete listing of posters.

PLENARY SESSION: INVESTING IN RECOVERY – AN ECONOMIC AS WELL AS MORAL IMPERATIVE

Location: Congressi Auditorium

David McDaid
London School of Economics and Political Science, United Kingdom

Abstract: ‘Recovery’ is a key concept in mental health policy around the globe. The World Health Organization has called for ‘a recovery-based approach that puts the emphasis on supporting individuals with mental disorders and psychosocial disabilities to achieve their own aspirations and goals’. Investing in evidence-based actions to help foster recovery should therefore be core to any system of support for anyone experiencing schizophrenia or other severe mental health problems. While there is clearly a moral imperative to maximise opportunities for recovery, the economic case for action can also be compelling and complementary. However, the opportunity to make an economic argument to support investment in recovery is not always taken, and even when made it is often too narrow in ambition and scope to have a major influence policy and practice. This presentation will highlight examples of the economic potential of recovery-focused services in health, employment, education and housing services. It will look at strengths and weaknesses in the way in which economic evidence is presented to policy makers, including the extent to which implementation challenges have been considered. It will argue that in making the economic case for recovery it is just as vital to look at the role of the messenger as well as the message that is being communicated.

COFFEE BREAK

Location: Congressi, Passi Perduti
6th Schizophrenia International Research Society Conference
Integrated Prevention and Treatment: Shifting the Way We Think

**ORAL SESSIONS**

**BIOMARKERS**

**Location:** Congressi Auditorium

**Chair:** Anthony Grace

**3:15 PM**  
**Altered Complement Pathway Protein Expression is Associated With Psychotic Experiences at Age 11 Which Persist at Age 18**  
David Cotter

**3:30 PM**  
**Peripheral Inflammatory Markers are Predictive of Clinical Characteristics and Outcome in Psychosis**  
Graham Blackman

**3:45 PM**  
**A Computational Trial-By-Trial EEG Analysis of Hierarchical Precision-Weighted Prediction Errors**  
Sara Tomiello

**4:00 PM**  
**Cerebrospinal Fluid Findings in Twins With Psychotic Symptoms – Novel Findings and Future Prospects**  
Viktoria Johansson

**4:15 PM**  
**ICAM-1 is Increased in Brain and Peripheral Levels of Soluble ICAM-1 is Related to Cognitive Deficits in Schizophrenia**  
Thomas Weickert

**4:30 PM**  
**Increased Complement Factors C3 and C4 in Schizophrenia and the Early Stages of Psychosis: Implications for Clinical Symptomatology and Cortical Thickness**  
Vanessa Cropley

**4:45 PM**  
**Proteomic Analysis of Blood Based Samples From the Optimise (OPtimization of Treatment and Management of Schizophrenia in Europe) Study Point Towards Complement Pathway Protein Changes**  
Melanie Föcking

**5:00 PM**  
**Stress-Induced Amygdala Hyperactivity Leads to Interneuron Loss and Schizophrenia-Like Pathology in a Developmental Disruption Model of Schizophrenia**  
Anthony Grace

Saturday 7 April
NEUROIMAGING

Location: Congressi, Sala Verde
Chair: Elisabetta Del Re

3:15 PM  Hippocampal Volume in Adolescents With Persistent Psychotic Experiences: A Longitudinal Population-Based MRI Study
Ana Calvo

3:30 PM  Neurobiology of Psychometric Schizotypy: Insights From Multimodal Imaging Research
Gemma Modinos

3:45 PM  Patterns of Gray Matter Abnormalities in Patients With first-Episode and Treatment-Naïve Schizophrenia
Mingli Li

4:00 PM  Auditory and Language Areas Distinguish Converters From Non–Converters at Baseline in SHARP Clinical High Risk Subjects for Psychosis Study
Elisabetta Del Re

4:15 PM  Linking Cortical and Connectional Pathology in Schizophrenia
Maria Di Biase

4:30 PM  Lack of Antipsychotic Medication Effects on White Matter Microstructure in Schizophrenia
Nina Kraguljac

4:45 PM  Common Neuroanatomical Abnormalities in First Episode Psychosis Across Several Independent Samples
Sandra Vieira

5:00 PM  Glutamatergic Dysfuction and Treatment Response in Minimally Treated and Chronic Schizophrenia Patients
Elias Mouchlianitis
fMRI 3:15 PM - 5:15 PM

Location: Affari, Ground Level
Chair: Mette Nielsen

3:15 PM  Neurotyping Untreated First Episode Schizophrenia on the Basis of Slow-Wave Resting-State Dynamics
Lena Palaniyappan

3:30 PM  Brain Hyperactivation During Memory Retrieval Precedes and Predicts Conversion to Psychosis in Individuals at Clinical High Risk
★ Hengyi Cao

3:45 PM  Reward Processing as a Vulnerability Indicator for Psychosis: Results From a Twin Study
Mette Nielsen

4:00 PM  Increased Engagement of the Fronto-Parietal Network and Decreased Engagement of the Default-Mode – Cingulo-Opercular – Sensorimotor Between-Network Connectivity in First-Episode Psychosis Patients
Eva Rikandi

4:15 PM  Testing the Dopamine Hypothesis of Psychosis Using Positron Emission Tomographic Imaging in First Episode Bipolar Affective Disorder and Schizophrenia
★ Sameer Jauhar

4:30 PM  Deficits in Context-Dependent Adaptive Coding in Early Psychosis and Healthy Individuals With Schizotypal Personality Traits
Matthias Kirschner

4:45 PM  Effect of N-Acetylcysteine on Brain Glutamate Levels and Resting Perfusion in Schizophrenia
Grant McQueen

5:00 PM  Dorsolateral Prefrontal Cortex in Drug-Naïve First Episode Schizophrenia: Dynamic Phase Coherence of Infraslow Oscillations
Lena Palaniyappan

★ – Travel Awardee
GENETICS

Location: Affari, Lower Level
Chair: Gianluca Ursini

3:15 PM  Genetic Vulnerability to DUSP22 Promotor Hypermethylation is Involved in the Relation Between in Utero Famine Exposure and Schizophrenia
Marco Boks

3:30 PM  Heritability and Correlation to Schizophrenia Spectrum Disorder of Glutamate and Other Neurometabolite Levels in Anterior Cingulate and Left Thalamus: A Register Based Magnetic Resonance Twin Study
Christian Legind

3:45 PM  Increased Cerebral Blood Flow After Single Dose of Antipsychotics in Healthy Subjects Depends on Dopamine D2 Receptor Density Profiles Evaluated With PET and mRNA Expression Data
Pierluigi Selvaggi

4:00 PM  Does Polygenic Risk Score for Schizophrenia Moderate the Momentary Affective and Psychotic Reactions to Daily-Life Stressors?
Lotta-Katrin Pries

4:15 PM  Investigating Genetic Profiles Associated With ‘Real World’ Clinical Outcomes in Psychosis: A Retrospective Cohort Study
Emma Francis

4:30 PM  Genome-Wide Association Study, Heritability Estimation and Polygenic Risk Analysis of Susceptibility to Infections in 65,534 Individuals With Severe Mental Disorders and Population Controls
Michael Benros

4:45 PM  Placental Gene Expression, Obstetrical History and Polygenic Risk for Schizophrenia
★ Gianluca Ursini

5:00 PM  Vulnerable Periods for Cognitive Development in Individuals at High Genomic Risk of Schizophrenia
Sinead Morrison

★ – Travel Awardee
COGNITION

Location: Affari, First Level
Chair: Susan Rossell

3:15 PM  First Episode Psychosis Patients Across Europe Differ in Intellectual Quotient (IQ) and Exposure to Environmental Hazards
Laura Ferraro

3:30 PM  Childhood Adversities and Psychotic Symptoms: The Potential Mediating or Moderating Role of Neurocognition and Social Cognition
Giovanni Mansueto

3:45 PM  Automated Analysis of Recent-Onset and Prodromal Schizophrenia
Guillermo Cecchi

4:00 PM  The Missing Piece in the Puzzle: Cognitive Decline in Schizophrenia and Bipolar Patients After the First Episode
Abraham Reichenberg

4:15 PM  Multisensory Integration Underlying Body Ownership in Schizophrenia and Individuals at Familial Risk to Develop Psychosis: A Study Using the Rubber Hand Illusion Paradigm
Neeltje Van Haren

4:30 PM  Social Simulation in Virtual Reality Improves Embodiment of Emotions in Schizophrenia
Lénie Torregrossa

4:45 PM  Can They Hear It? Do Patients With Auditory Verbal Hallucinations Have Auditory Processing Deficits?
Susan Rossell

5:00 PM  Trajectories of Neurocognitive Functioning Over Time in Youth at Clinical High Risk Who Do and Do Not Transition to Psychosis
Kristen Woodberry
FINAL PROGRAM
FLORENCE, ITALY
4 – 8 APRIL 2018

COMORBIDITY
Location: Affari, Second Level
Chair: Fiona Gaughran

3:15 PM  Clozapine and Long-Term Mortality Risk in Patients With Schizophrenia: Preliminary Results From a Meta-Analysis
Jentien Vermeulen

3:30 PM  Predictors of Cardiometabolic Risk in the Year After Onset of Psychosis: A Prospective Cohort Study
Fiona Gaughran

3:45 PM  A Comprehensive Nationwide Study of Comorbidity Within Treated Mental Disorders – A Danish Register-Based Study
Oleguer Plana Ripoll

4:00 PM  Natural Cause Mortality in Persons With Schizophrenia and Bipolar Disorder
Faith Dickerson

4:15 PM  Sleep in Major Psychiatric Disorders: Results From Nationwide SUPER Finland Study
Minna Torniainen-Holm

4:30 PM  Mortality 15-Years After Specialist Early Intervention Treatment for the First Episode of Psychosis
Susan Cotton

4:45 PM  Risk of Diabetic Complications and Subsequent Mortality Among Individuals With Schizophrenia and Diabetes Mellitus: A Nationwide Population-Based Register Study
Anita Tønder Nielsen

COFFEE BREAK
Location: Congressi, Passi Perduti

3:15 PM - 5:15 PM

5:15 PM - 5:30 PM
**ORAL SESSIONS**

**5:30 PM**  
Disorganized Gyrification Network Properties During the Transition to Psychosis  
André Schmidt

**5:45 PM**  
Psychotic Experiences Are Associated With Health Anxiety and Functional Somatic Symptoms in Pre-Adolescence.  
Martin K. Rimvall

**6:00 PM**  
Early Brain and Cognitive Development in Children at Risk for Schizophrenia  
John Gilmore

**6:15 PM**  
Increased Risks for Non-Affective Psychotic Disorder and Bipolar Disorder in Autism Spectrum Disorder  
Rik Schalbroeck

**6:30 PM**  
Abnormal Modular Organization of the Functional Connectome Predicts Conversion to Psychosis in Clinical High-Risk Youth  
Guusje Collin

**6:45 PM**  
Olanzapine Impairs Central Insulin Action: Effects on Body Fuel Preference in Rats  
Margaret Hahn

**7:00 PM**  
Investigating the Mechanisms Underlying the Beneficial Effects of Estrogens in Schizophrenia  
Deepak Srivastava

**7:15 PM**  
A Pluripotential at Risk Mental State: Initial Results  
Jessica A. Hartmann

★★ – Travel Awardee
FINAL PROGRAM
FLORENCE, ITALY
4 – 8 APRIL 2018

SOCIO-ECONOMIC/ENVIRONMENT
5:30 PM - 7:30 PM

Location: Congressi, Sala Verde
Chair: Merete Nordentoft

5:30 PM  Examining the Neurobiological Impact of Childhood Trauma: An Important Role for Frontal and Insular Regions
Marieke Begemann

5:45 PM  Sticks and Stones May Break My Bones but Words Increase the Risk of Psychotic Experiences
Colm Healy

6:00 PM  Protective Factors for Psychotic Experiences Amongst Adolescents Exposed to Multiple Forms of Victimization
Helen Fisher

6:15 PM  Some of the Individual Differences in Risk to Develop Psychosis Among Cannabis Users Can Be Explained by Where They Live and by Their Age at First Use
Marta Di Forti

6:30 PM  Genetic and Environmental Predictors of Main Outcomes in the Danish High Risk and Resilience Study - Via 7. A Study of 522 7-Year-Old Children of Parents With Schizophrenia, Bipolar Disorder or Neither of These Disorders
Merete Nordentoft

6:45 PM  Neighbourhood Ethnic Density and Psychosis – What Can We Learn From Generational Differences?
Peter Schofield

7:00 PM  Risk of Psychosis in Offspring of Parents With a History of Homelessness During Childhood and Adolescence: A Nationwide, Register-Based, Cohort Study
Sandra Feodor Nilsson

7:15 PM  Lower Family Income Predicts Psychotic Experiences in a Community Sample of Youths in Brazil: Results From a 3-Year Follow-Up Study
Lais Fonseca

★ – Travel Awardee
## OUTCOME

**Location:** Affari, Ground Level  
**Chair:** Eric Chen

### 5:30 PM

**Examining Relationships Between Psychotic Experiences and Suicidal Ideation in Adolescents Using a Network Approach**  
Daniel Nunez

### 5:45 PM

**Duration of Untreated Psychosis (DUP) is Associated With Worse Response to Treatment in Antipsychotic Naïve First Episode Psychosis**  
Daniel Cavalcante

### 6:00 PM

**Clinical and Functional Outcomes in Young Adulthood of Children With Psychotic Symptoms: A Longitudinal Twin Cohort Study**  
Antonella Trotta

### 6:15 PM

**The Effect of Early Medication Discontinuation on Long-Term Clinical Outcome in First Episode Psychosis**  
Eric Chen

### 6:30 PM

**Schizophrenia and Bipolar Disorder Diagnosis Patterns: Real-World Evidence From US Claims Databases**  
Ann Hartry

### 6:45 PM

**The Relationship Between Cognition and Functional Improvement in the Context of a Psychosocial Intervention Targeting Social Disability in First Episode Psychosis**  
Sian Griffiths

### 7:00 PM

**Cognitive Subtypes in First-Episode Psychosis and Association to Treatment Response**  
Manuela Russo

### 7:15 PM

**Neurocognition in Ultra-High Risk Individuals and Relationship to Transition to Psychosis, Depressive Disorder, and Functioning: Findings From the Neurapro Trial**  
Kelly Allott
PREDICTION

Location: Affari, Lower Level
Chair: Alexis Cullen

5:30 PM  
Cannabis and Other Substance Use Disorders Predict Conversion From Schizotypal Disorder to Schizophrenia  
Carsten Hjorthoej

5:45 PM  
Identifying Psychotic Symptoms and Predicting Relapse Through Social Media  
Michael Birnbaum

6:00 PM  
Psychotic Experiences in Common Mental Disorders and as Clinical Markers of Risk for Suicidal Behaviour  
Ian Kelleher

6:15 PM  
Predicting Schizophrenia: Identification of Multimodal Markers of Disease Through a Machine Learning Approach  
Linda Antonucci

6:30 PM  
Aberrant Dopamine System Function Reversed by the Orexin Receptor Antagonist TCS1102 in a Rodent Model of Schizophrenia  
Stephanie Perez

6:45 PM  
Specific Symptoms in Adolescence Predict Psychosis in the Northern Finland Birth Cohort 1986  
Juha Veijola

7:00 PM  
Individualized Long-Term Outcome Prediction of Psychosis in an Observational Study: A Machine Learning Approach  
Hugo Schnack

7:15 PM  
Stress and Cognitive Function Among Individuals at Clinical High-Risk for Psychosis: Findings From the NAPLS Cohort  
Alexis Cullen

★ – Travel Awardee
PHARMACOLOGY  
5:30 PM - 7:30 PM

Location: Affari, First Level
Chair: Stefan Leucht

5:30 PM  
**Midbrain Dopamine Neuron Activity Controls the Effects of Repeated Ketamine on Striatal Dopaminergic Function**
Michelle Kokkinou

5:45 PM  
**Breakthrough on Antipsychotic Maintenance Medication in a Clinical Cohort**
Jose Rubio

5:45 PM  
★

6:00 PM  
**Dose-Response Meta-Analysis to Identify the Optimum and Equivalent Doses of Antipsychotic Drugs for Schizophrenia**
Stefan Leucht

6:15 PM  
**Systematic Review, Meta-Analysis and Meta-Regression of Predictors of Placebo Response in Acute Schizophrenia**
Claudia Leucht

6:30 PM  
**Long-Term Safety and Tolerability of Brexpiprazole in Patients With Schizophrenia**
Mika Hakala

6:45 PM  
**Meta-Analysis of Efficacy of Cognitive Enhancers for Patients With Schizophrenia-Spectrum Disorders**
Igne Sinkeviciute

7:00 PM  
**Cognitive Functioning Following Discontinuation of Antipsychotic Medication. a Sub-Group Analysis From the Opus II Trial**
Nikolai Albert

★ – Travel Awardee
SERVICES AND OTHER INTERVENTIONS

Location: Affari, Second Level
Chair: Shon Lewis

5:30 PM  A Randomised Controlled Trial of Smartphone Active Symptom Monitoring in Psychosis
Shon Lewis

5:45 PM  Changes in Psychopathology Predict Changes in Working Alliance in First Episode Psychosis
Marianne Melau

6:00 PM  A Longitudinal Analysis of the Effects of Neuroticism and Extraversion on Subjective Well-Being in Patients With Schizophrenia
Floor van Dijk

6:15 PM  Education, Employment and Disability Among Young Persons With Early Psychosis Participating in a Coordinated Specialty Care Program
Thomas Smith

6:30 PM  Effectiveness of Coordinated Specialty Care for Early Psychosis
Britta Galling

6:45 PM  Who Gets in to Early Psychosis Intervention Services? A Comparison of Service Users and Non-Users in Health Administrative Data
Kelly Anderson

7:00 PM  Discharge Planning Practices and Family Involvement in Transitions to Outpatient Care Following Discharge From Hospital Psychiatric Units
Morgan Haselden

7:15 PM  Prevalence and Predictors of Interview-Assessed Clinical High Risk Symptoms in the General Population
Frauke Schultze-Lutter
<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Event Title</th>
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<tbody>
<tr>
<td>8:00 AM - 8:30 AM</td>
<td>Auditorium</td>
<td>The Gut Microbiome: A Key Regulator of Neurodevelopment and Behavior</td>
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<tr>
<td>8:30 AM - 9:30 AM</td>
<td>Auditorium</td>
<td>Building on Genetics and Pathophysiology of Schizophrenia to Guide Discovery of New Treatments</td>
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<td>9:30 AM - 9:45 AM</td>
<td>Auditorium</td>
<td>Awards Ceremony</td>
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<td>10:00 AM - 10:45 AM</td>
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<td>10:00 AM - 12:00 PM</td>
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<tr>
<td>10:00 AM - 10:45 AM</td>
<td>Sala Verde</td>
<td>Viruses and Schizophrenia: Implications for Pathophysiology and Treatment</td>
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<tr>
<td>10:00 AM - 12:00 PM</td>
<td>Palazzo Affari</td>
<td>New Insights on the Role of Neuroinflammation in Schizophrenia Pathophysiology from Post Mortem and Animal Studies</td>
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<td>10:00 AM - 12:00 PM</td>
<td>Lower Level Palazzo Affari</td>
<td>Do NMDAR Antibodies Cause Schizophrenia?</td>
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<td>10:00 AM - 12:00 PM</td>
<td>1st Level Palazzo Affari</td>
<td>Metabolism and Co-Morbidities in Psychotic Disorders</td>
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<tr>
<td>10:00 AM - 12:00 PM</td>
<td>2nd Level Palazzo Affari</td>
<td>Metabolism and Co-Morbidities in Psychotic Disorders</td>
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<td>8:00 AM - 9 AM</td>
<td>Palazzo Affari Entrance</td>
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<td>8:00 AM - 9 AM</td>
<td>Sala 103</td>
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<td>Limonaia</td>
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John Cryan
University College Cork, Ireland

Abstract: The brain-gut-microbiota axis is emerging as a research area of increasing interest for those investigating the biological and physiological basis of neurodevelopmental, age-related and neurodegenerative disorders. The routes of communication between the gut and brain include the vagus nerve, the immune system, tryptophan metabolism, via the enteric nervous system or by way of microbial metabolites such as short chain fatty acids. These mechanisms also impinge on neuroendocrine function at multiple levels. Studies in animal models have been key in delineating that neurodevelopment and the programming of an appropriate stress response is dependent on the microbiota. Developmentally, a variety of factors can impact the microbiota in early life including mode of birth delivery, antibiotic exposure, mode of nutritional provision, infection, stress as well as host genetics. At the other extreme of life, individuals who age with considerable ill health tend to show narrowing in microbial diversity. Stress can significantly impact the microbiota-gut-brain axis at all stages across the lifespan. Recently, the gut microbiota has been implicated in a variety of conditions including obesity, autism, schizophrenia and Parkinson's disease. Moreover, animal models have been key in linking the regulation of fundamental brain processes ranging from adult hippocampal neurogenesis to myelination to microglia activation by the microbiome. Finally, studies examining the translation of these effects from animals to humans are currently ongoing. Further studies will focus on understanding the mechanisms underlying such brain effects and developing nutritional and microbial-based intervention strategies.
CONCURRENT SYMPOSIA

RECONSIDERING THE EVIDENCE FOR CLOZAPINE FOR TREATMENT REFRACTORY SCHIZOPHRENIA

Location: Congressi Auditorium  
Chair: James MacCabe

10:00 AM  What Do Meta-Analyses Tell Us About Clozapine’s Efficacy and Effectiveness for Treatment Refractory Schizophrenia?  
Dan Siskind

10:25 AM  What Does Epidemiological Data Tell Us about Clozapine’s Effectiveness?  
Jari Tiihonen

10:50 AM  Could Clozapine Reduce Violent Offending?  
Vishal Bhavsar

11:15 AM  Deployment of Dedicated Nursing Staff to Stimulate the Initiation of Clozapine. a Cluster-Randomized Trial  
Yvonne Van der Zalm

Discussant: John Kane

BUILDING ON GENETICS AND PATHOPHYSIOLOGY OF SCHIZOPHRENIA TO GUIDE DISCOVERY OF NEW TREATMENTS

Location: Congressi, Sala Verde  
Chair: P. Jeffrey Conn

10:00 AM  Genetic Insights Lead to Discovery of Selective Activators of mGlu1 and mGlu3 Metabotropic Glutamate Receptors as Potential Treatments for Schizophrenia  
P. Jeffrey Conn

10:25 AM  Muscarinic M1 Receptors: Involvement in the Pathophysiology and Treatment of Schizophrenia  
Brian Dean

10:50 AM  Complement Dysregulation in Schizophrenia: Implications for Potential Treatment Strategies  
Clare Beasley

11:15 AM  The Role of Molecular Imaging in Guiding Drug Development  
Anissa Abi-Dargham

Discussant: John Krystal
VIRUSES AND SCHIZOPHRENIA: IMPLICATIONS FOR PATHOPHYSIOLOGY AND TREATMENT

Location: Affari, Ground Level
Chair: Alan Breier

10:00 AM  DNA Methylation of Immune Cells in Persons at Clinical High Risk for Psychosis
Diana Perkins

10:25 AM  Viral Exposures and Schizophrenia
Faith Dickerson

10:50 AM  Can Neuroviral Infections With Herpes Simplex Virus, Type 1 (HSV-1) Contribute to RDoC?
Vishwajit Nimgaonkar

11:15 AM  A Double-Blind Trial of Valacyclovir to Improve Cognition in Early Phase Schizophrenia: Results From the VISTA Study
Alan Breier

Discussant: Robert Yolken

NEW INSIGHTS ON THE ROLE OF NEUROINFLAMMATION IN SCHIZOPHRENIA PATHOPHYSIOLOGY FROM POST MORTEM AND ANIMAL STUDIES

Location: Affari, Lower Level
Chair: Tertia Purves-Tyson

10:00 AM  Inflammatory Cytokines are Elevated in the Midbrain in Schizophrenia
Tertia Purves-Tyson

10:25 AM  Maternal Immune Activation Leads to Increased Levels of Inflammatory Cytokines in the Absence of Overt Microglia Anomalies in the Midbrain
Ulrike Weber-Stadlbauer

10:50 AM  Maternal Immune Activation and Chronic Haloperidol Interact to Increase Microglial Activation in vivo: Do Antipsychotics Inflame the Brain?
Anthony Vernon

11:15 AM  Low-Dose Risperidone Treatment in Adolescence Prevents the Development of Neuroinflammation in the Maternal Immune Activation Model
Ina Weiner

Discussant: Cynthia Shannon Weickert
DO NMDAR ANTIBODIES CAUSE SCHIZOPHRENA?

Location: Affari, First Level
Chair: Belinda Lennox

10:00 AM  Impact of Anti-NMDA Receptor Autoantibodies From Psychotic Patients on the Glutamate Synapse
Laurent Groc

10:25 AM  Neuronal Autoantibodies in Psychosis: Enough About Prevalence, What’s the Relevance?
Thomas Pollak

10:50 AM  Ongoing Germinal Centre Reactions Contribute to N-Methyl-D-Aspartate Receptor (NMDAR) Antibody Production in NMDAR-Antibody Encephalitis
Adam Al-Diwani

11:15 AM  Prevalence of Anti-Neuronal Antibodies in Patients Admitted With First Episode of Psychosis and Their Clinical Outcomes
James Scott

Discussant: Sarosh Irani

METABOLISM AND CO-MORBIDITIES IN PSYCHOTIC DISORDERS

Location: Affari, Second Level
Chair: Matej Oresic

10:00 AM  Body and Mind: Cardio-Metabolic and Immune Function in First Episode Psychosis and Comparison With Central Neurofunctional Measures
Oliver Howes

10:25 AM  Inflammation and Gut Microbiome in First-Episode Psychosis
Jaana Suvisaari

10:50 AM  Metabolomics Approaches to Study Metabolic Co-Morbidities in Psychotic Disorders
Tuulia Hyötyläinen

11:15 AM  The Endocannabinoid System in First-Episode Psychosis
Jarmo Hietala

Discussant: Matej Oresic
POSTERS, THURSDAY 5 APRIL

12:00 P.M. - 2:00 P.M.
Cavaniglia

Travel Awardee Posters are {Circled}

T1. STRESSFUL LIFE EVENTS AND PERCEIVED STRESS IN THE SAMPLE OF PATIENTS WITH FIRST-EPIODE PSYCHOSIS AND HEALTHY CONTROLS: PRELIMINARY RESULTS
Anna Butjosa, Regina Vila-Badia, Núria Del Cacho, Itziar Riera-López de Aguileta, Mar Álvarez, Daniel Muñoz, Carme Saltó, Núria Grases, Susana Ochoa, PROFEP Group, Judith Usall, Susana Ochoa*

T2. DO ADVERSE LIFE EVENTS AT FIRST ONSET OF AUDITORY VERBAL HALLUCINATIONS INFLUENCE SUBSEQUENT VOICE-CHARACTERISTICS? RESULTS FROM AN EPIDEMIOLOGICAL STUDY
Josef Bless*, Frank Larøi, Julien Laloyaux, Kristiina Kompus, Bodil Kråkvik, Einar Vedul-Kjelsås, Anne Martha Kalhovde, Kenneth Hugdahl

T3. METACOGNITIVE BELIEFS IN SEVERE MENTAL DISORDERS
Tiril Østefjells*, Ingrid Melle, Sofie R. Aminoff, Ole A. Andreasen, Akiah O. Berg, Roger Hagen, Tone Hellvin, Trine V. Lagerberg, Rachel Loewy, June U. Lystad, Kristin L. Romm, Leiv Sandvik, Nasrettin Sönmez, Jan Ivar Røssberg

T4. IDENTIFICATION OF NEUROANATOMICAL SURROGATE MARKERS OF CHILDHOOD TRAUMA
Theresa Haidl*, Marlene Rosen, Mauro Seves, Thorsten Lichtenstein, Anne Ruef, Joseph Kambeitz, Nikolaos Koutsouleris

T5. LURASIDONE AND RISK FOR METABOLIC SYNDROME IN PATIENTS WITH SCHIZOPHRENIA: A COMPREHENSIVE DATABASE ANALYSIS
Michael Tocco*, Andrei Pikalov, Jay Hsu, Josephine Cucchiaro, John W. Newcomer, Antony Loebel

T6. SECOND GENERATION ANTIPSYCHOTIC DRUGS AND MORTALITY: A META-ANALYSIS OF PLACEBO-CONTROLLED RANDOMISED CONTROLLED TRIALS
Johannes Schneider-Thoma*, Stefan Leucht

T7. PHARMACOGENETIC OF TARDIVE DYSKINESIA -- A FOLLOW-UP ON THE VALBENAZINE TARGET VMAT2/SLC18A2
Clement Zai*, Arun Tiwari, Daniel Mueller, Aristotle Voineskos, Steven G. Potkin, Jeffrey Lieberman, Herbert Meltzer, Gary Remington, James Kennedy

T8. NEUROLOGICAL SOFT SIGNS (NSS) IN SCHIZOPHRENIA: AN UPDATE ON THE STATE-VERSUS TRAIT-PERSPECTIVE
Silke Bachmann*, Johannes Schröder
T9. CROSS-SECTIONAL ASSOCIATION OF MEMBRANE FATTY ACID COMPOSITION AND PSYCHOPATHOLOGY IN THE NEURAPRO-E STUDY

T10. HERITABILITY OF AMYGDALA ACTIVITY AND ITS GENOME-WIDE ASSOCIATION WITH THE SCHIZOPHRENIA RISK LOCUS OF MIR137
Tiziana Quarto*, Giulio Pergola, Pasquale Di Carlo, Vittoria Paladini, Marco Papalino, Raffaella Romano, Antonio Rampino, Daniela Marvulli, Alessandro Bertolino, Giuseppe Blasi

T11. CEREBROSPINAL FLUID (CSF) MARKERS OF INFLAMMATION AND INFECTIONS IN SCHIZOPHRENIA AND AFFECTIVE DISORDERS: A SYSTEMATIC REVIEW AND META-ANALYSIS
Sonja Orlovska, Ole Köhler-Forsberg, Sophie Brix, Merete Nordentoft, Daniel Kondziella, Jesper Krogh, Michael Benros*

T12. VITAMIN D STATUS AND PSYCHOTIC DISORDER: ASSOCIATIONS WITH CLINICAL VARIABLES AND RISK FACTORS
Christine van der Leeuw*, Lot de Witte, Claude van der Ley, Richard Bruggeman, Jim van Os, Machteld Marcelis

T13. PROGRESSIVE SPONTANEOUS AND SYNCHRONY GAMMA-BAND OSCILLATION DEFICITS IN FIRST EPISODE SCHIZOPHRENIA
Yoji Hirano*, Naoya Oribe, Toshiaki Onitsuka, Shigenobu Kanba, Martha Shenton, Margaret A. Niznikiewicz, Larry J. Seidman, Robert W. McCarley, Kevin M. Spencer

T14. ASSESSING DIFFERENCES IN INFLAMMATORY MARKERS BETWEEN FIRST EPISODE PSYCHOSIS PATIENTS AND HEALTHY CONTROLS: THE IMPORTANCE OF CONTROLLING FOR CONFOUNDING FACTORS
Annalisa Giordano*, Valeria Mondelli, Mitul A Mehta, Steve Williams, Carmine M Pariante, Paola Dazzan

T15. LONGITUDINAL ASSOCIATIONS BETWEEN CHILDHOOD SALIVARY CORTISOL LEVELS AND PRODROMAL SYMPTOMS IN LATE ADOLESCENCE: FINDINGS FROM A HIGH-RISK COHORT
Alexis Cullen*, Elizabeth Fraser, Helen Fisher, Ruth Roberts, Uzma Zahid, Carmine Pariante, Patricia Zunszain, Philip McGuire, Robin Murray, Valeria Mondelli, Kristin R. Laurens

T16. GLUTAMATERGIC CHANGES IN UHR
Christina Wenneberg*, Brian Broberg, Egill Rostrup, Louise Birkedal Glenthøj, Birte Glenthøj, Merete Nordentoft, Tina Dam Kristensen
T17. OXIDATIVE STRESS BIOMARKERS AND NEGATIVE DIMENSION IN THE FIRST TEN YEARS OF SCHIZOPHRENIA: A 1-YEAR FOLLOW-UP STUDY
Leticia González-Blanco*, M. Paz García-Portilla, Leticia García-Alvarez, Lorena De La Fuente-Tomas, Pilar Saiz-Martínez, Celso Iglesias, Ana Coto, Julio Bobes

T18. MULTIVARIATE BRAIN ANATOMICAL DIFFERENCES IN POSITIVE AND NEGATIVE SCHIZOTYPY: PRELIMINARY RESULTS FROM THE TYPIA STUDY
Maria F. Urquijo*, Eliana Faiola, Anne Ruef, Anna Kasparbauer, Inga Meyhöfer, Maria Steffens, Ulrich Ettinger, Nikolaos Koutsouleris

T19. MULTIMODAL IMAGING IN FIRST EPISODE PSYCHOSIS: MAGNETOENCEPHALOGRAPHY, 7T FMRI STROOP, AND 7T MRS SPECTROSCOPY
Timothy Gawne*, Greg Overbeek, Jefferey Killen, David White, Meredith Reid, Noah Salibi, Thomas Denny, Ellis Charles, Adrienne Lahti

T20. SEARCHING FOR NOVEL AUTOANTIBODIES WITH CLINICAL RELEVANCE IN PSYCHIATRIC DISORDERS

T21. ALTERATIONS OF CRY2 AND PER3 GENE EXPRESSION ARE ASSOCIATED WITH GRAY MATTER ABNORMALITIES OF THALAMIC-LIMBIC NETWORK IN UNIPOLAR DEPRESSION AND BIPOLAR DEPRESSION
Chengcheng Zhang*, Peiyan Ni, Tao Li

T22. PITUITARY GLAND VOLUME DIFFERENCES IN INDIVIDUALS WITH PSYCHOSIS: RESULTS FROM THE BIPOLAR-SCHIZOPHRENIA NETWORK ON INTERMEDIATE PHENOTYPES (B-SNIP) STUDY

T23. DYNAMICS OF NEURONAL METABOLISM AFTER THE ACUTE ONSET OF PSYCHOSIS – A TWO YEARS FOLLOW-UP 1H/31P-MR-SPECTROSCOPY STUDY IN NEUROLEPTIC NAIVE UHR TRANSITION PATIENTS
Stefan Smesny*, Diana Berberich, Alexander Gussew, Kerstin Langbein, Mario Walther, Juergen Reichenbach

T24. REDOX REGULATORS AND OXIDATIVE STRESS IN SCHIZOPHRENIA
Havard Bentsen*, Dag Solberg, Helge Refsum, Ole Andreassen
T25. ALTERATIONS OF PLASMA PHOSPHOLIPID FATTY ACID PROFILES ARE ASSOCIATED WITH LOCAL BRAIN STRUCTURAL ABNORMALITIES IN NEUROLEPTIC NAÏVE FIRST-EPISODE PSYCHOSIS PATIENTS
Kerstin Langbein*, Christian Fleischer, Katrin Kuhnt, Christian Gaser, Stefan Smesny

T26. PERINATAL STRESS AND PSYCHOSIS: RESULTS FROM THE BOLOGNA FIRST EPISODE PSYCHOSIS (BO-FEP) STUDY
Ilaria Tarricone, Marcello Lanari, Marta Di Forti*, Robin Murray, Domenico Berardi

T27. DYSFUNCTIONAL ATTITUDES IN ADOLESCENTS WITH EARLY-ONSET PSYCHOSIS: PRELIMINARY RESULTS
Olga Puig-Navarro*, Francina Badia, Yuli Gallegos, Mireia Forner, Inmaculada Baeza, Gisela Sugranyes, Eva Varela, Anabel Martinez-Aran, Eric Granholm

T28. QUALITY OF PARENTAL BONDING AMONG INDIVIDUALS WITH ULTRA-HIGH RISK OF PSYCHOSIS AND SCHIZOPHRENIA PATIENTS
Oon Him Peh, Attilio Rapisarda*, Kang Sim, Jimmy Lee

T29. ELECTRORETINOGRAPHIC RESPONSE IN YOUTHS AT GENETIC RISK OF SCHIZOPHRENIA AND BIPOLAR DISORDER AND IN NORMAL CONTROLS: TRANSVERSAL AND LONGITUDINAL DIFFERENCES AND IMPLICATIONS FOR THE RISK TRAJECTORY
Anne-Marie Gagné, Thomas Paccalet*, Valérie Jomphe, Daphné Lussier, Michel Maziade

T30. TIPPING POINTS – PREDICTING TRANSITIONS TO PSYCHOSIS IN AT-RISK YOUNG PEOPLE
Jessica A. Hartmann*, Patrick D. McGorry, Marieke Wichers, Barnaby Nelson

T31. TEN YEAR CLINICAL FOLLOW-UP OF YOUTH WITH EARLY ONSET PSYCHOSIS
Sugranyes Gisela*, Elena De la Serna, Marina Redondo, Daniel Ilzarbe, Josefina Castro-Fornieles, Inmaculada Baeza

T32. USING PSYCHOSOCIAL INTERVENTION TO ENHANCE KNOWLEDGE OF ATTENUATED PSYCHOSIS SYMPTOMS AND HELP SEEKING BEHAVIORS AMONG AFRICAN AMERICAN YOUNG ADULTS
Huijun Li*, Tanisha Pelham

T33. EARLY INTERVENTION FOR EARLY PSYCHOSIS IN FRANCE, MAPPING OF PROGRAMS
Sophie Meunier-Cussac*, Guy Gozlan, Laurent Lecardeur, Anne Duburcq, Laurène Courouve

T34. CAN VIDEOGAMES ENGAGE ADOLESCENTS AND YOUNG ADULTS AT RISK FOR PSYCHOSIS IN FAMILY THERAPY AND FACILITATE STRESS REACTIVITY? LESSONS FROM A FEASIBILITY TRIAL OF COMPUTER AIDED LEARNING FOR MANAGING STRESS (CALMS)
Kristen Woodberry*, Kelsey Johnson, Cole M. Chokran, Alex Keller, Larry Seidman

T35. DIFFUSION MEASURES OF EXTRACELLULAR FREE WATER IN A NON-HUMAN PRIMATE MODEL OF MATERNAL IMMUNE ACTIVATION: EXPLORING NEUROIMMUNE MECHANISMS OF PSYCHIATRIC DISORDERS
Cameron Carter*, Tyler Lesh, Costin Tanase, Jeffrey Bennett, Ana-Maria Iosif, Judy Van Der Water, Richard Maddock, David Amaral, Melissa Baumann
T36. THE ANTIPSYCHOTIC-LIKE PROPERTIES OF EVENAMIDE (NW-3509) REFLECT THE MODULATION OF GLUTAMATERIC DYSREGULATION
Marco Bortolato*, Laura Faravelli, Ravi Anand

T37. THE LONELY MOUSE: A MODEL FOR STUDYING MATERNAL PSYCHOLOGICAL STRESS AND ITS CONSEQUENCES IN THE OFFSPRING
Joseph Scarborough, Flavia Müller, Annamaria Cattaneo, Juliet Richetto*

T38. MOLECULAR INSULTS TO HIGHER-ORDER DORSOLATERAL PREFRONTAL CORTICAL CIRCUITS: IMPLICATIONS FOR THE PATHOGENESIS OF SCHIZOPHRENIA
Dibyadeep Datta*, Amy Arnsten

T39. NEURAL MECHANISMS OF METABOTROPIC GLUTAMATE RECEPTOR 3 MEDIATED ENHANCEMENT OF SYNAPTIC PLASTICITY AND COGNITION
Branden Stansley*, Max Joffe, Samantha Yohn, Craig Lindsley, Colleen Niswender, P. Jeffrey Conn

T40. GPR52 AGONISTS REPRESENT A NOVEL APPROACH TO TREAT UNMET MEDICAL NEED IN SCHIZOPHRENIA
Andrew J. Grottick, Ben Grayson, Giovanni Podda, Nagi Idris, Cornelia Dorner-Ciossek*, Joanna Neill, Scott Hobson

T41. MODIFIED COGNITIVE BEHAVIORAL THERAPY FOR ELDERLY PATIENTS WITH SCHIZOPHRENIA: A RANDOMIZED, CONTROLLED PILOT TRIAL
Bernhard Müller*, Christian Kärgel, Magdalena Horacek, Ute Darrelmann, Anja Heger, Daniela Kariofillis, Beate Nentwich, Christoph Meisner, Claudia Ose, Svenja Unsöld, Jens Wiltfang, Stefan Klingberg, Gudrun Sartory

T42. WHEN SHOULD EARLY INTERVENTION START, AND FOR HOW LONG SHOULD IT LAST?
Nikolai Albert*, Marianne Melau, Heidi Jensen, Lene Halling Hastrup, Carsten Hjorthøj, Merete Nordentoft

T43. TRANSCRANIAL DIRECT-CURRENT STIMULATION (TDCS) IN PATIENTS WITH ULTRA-TREATMENT-REFRACTORY AUDITORY HALLUCINATIONS
Jean-Pierre Lindenmayer*, Tania Sultana, Amandeep Kaur, Rang Yang, Anzalee Khan, Mila Kirstie-Kulsa, Isidora Ljuri, Benedicto Parker

T44. A RANDOMISED, DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL OF THE EFFECTS OF VITAMIN B12, B6 AND FOLIC ACID ON COGNITION AND SYMPTOMS IN FIRST-EPISODE PSYCHOSIS: THE VITAMINS IN PSYCHOSIS STUDY
Kelly Allott*, Patrick McGorry, Hok Pan Yuen, Colin O’Donnell

T45. A COMPARISON OF SCHIZOPHRENIA RELAPSE RATES OF 3 PALIPERIDONE FORMULATIONS, ONCE-DAILY, ONCE-MONTHLY AND ONCE EVERY-3-MONTH: POST-HOC ANALYSIS FROM 3 RANDOMIZED CONTROLLED TRIALS
T46. TARGETING THE IMMUNE SYSTEM TO TREAT DEPRESSION AND NEGATIVE SYMPTOMS IN SCHIZOPHRENIA

T47. IS THERE A DIURNAL VARIATION IN PSYCHIATRIC SYMPTOMS IN SCHIZOPHRENIA?
David Daniel*, Alan Kott

T48. ANTIPSYCHOTIC EFFICACY OF EVENAMIDE (NW-3509) IS DUE TO MODULATION OF GLUTAMATERGIC DYSREGULATION
Ravi Anand*, Emma C. Forrest, Richard D. Hartman, Stephen M. Graham, Laura Faravelli

T49. THE NEURAPRO STUDY: ADHERENCE TO STUDY MEDICATION

T50. SYMPTOMATIC AND FUNCTIONAL RESPONSE TO BREXPIRAZOLE TREATMENT IN PATIENTS WITH ACUTE SCHIZOPHRENIA BY AGE
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