

Scientific Programme

Wednesday 14th October

REGISTRATION

18:00 Welcome Reception

Thursday 15th October

08:45-09:00 **Tomás Palomo**, Spain
Opening remarks

09:00-09:30 **Patrick McGorry**, Australia
Clinical staging: a heuristic framework for intervention and understanding the pathophysiological basis of disorders

S1. BEYOND GENES IN NEUROPSYCHIATRIC DISORDERS: EPIGENETICS AND BIOMARKERS

Chairpersons: Pierre Sokoloff and José Maria Delgado

09:30-09:45 **Pierre Sokoloff**, France
Beyond genes in neuropsychiatric disorders

09:45-10:15 **Barry Keverne**, UK
Epigenetically regulated imprinted genes in foetal programming

10:15-10:45 **Renaud Massart**, France
Epigenetic function of the GPCR GPR88 in cortical neurons

10:45-11:15 COFFEE BREAK

11:15-11:45 **Janet Hoenicka**, Spain
ANKK1 expression study: uncovering the biological bases of *TaqIA*-associated phenotypes

11:45-12:15 **Eduardo Rodriguez-Farré**, Spain
Biomarkers of neurodevelopmental exposure to methylmercury

12:15-12:45 **Isidro Ferrer**, Spain
Methylation of gene promoters in post-mortem brain tissue

12:45-13:15 **Norbert Müller**, Germany
Inflammatory biomarkers and depression

13:15-13:30 DISCUSSION

13:30-15:00 LUNCH

S2. STAGING MOOD DISORDERS

Chairpersons: Richard Beninger and Erik Clavería

- 15:00-15:30 **Thomas N Chase, USA**
Apathy in brain disease: diagnosis, pathophysiology and treatment
- 15:30-16:00 **Ian Reid, UK**
Staging antidepressant treatment
- 16:00-16:30 **Eduard Vieta, Spain**
Staging bipolar disorders
- 16:30-17:00 COFFEE BREAK

S3. STAGING NEURODEGENERATIVE PROGRESSION

- 17:00-17:30 **Trevor Archer, Sweden**
MPTP-induced deficits: Effects of Physical Exercise
- 17:30-18:00 **Kurt A Jellinger, Austria**
Staging in Alzheimer's disease: implications for diagnosis and treatment
- 18:00-18:30 **Kiminobu Sugaya, USA**
Arresting progression of neurodegenerative disorder
- 18:30-19:00 **Peter Riederer, Germany**
Diabetes Type II: a risk factor for Depression - Parkinson - Alzheimer
- 19:00-19:30 DISCUSSION
- 19:30-20:30 POSTER ASSEMBLY

Friday 16th October

S4. STAGING THROUGH THE LIFE SPAN

Chairpersons: Robin Murray and Eduardo Rodriguez-Farré

- 09:00-09:30 **Bitá Moghaddam, USA**
Behavioral differences between adolescents and adults are modulated by motivational factors
- 09:30-10:00 **Patricio O'Donnell, USA**
Adolescent maturation of cortical dopamine
- 10:00-10:30 **Beatriz Luna, USA**
Maturation of brain systems underlying the development of cognitive control from childhood to adulthood

- 10:30-11:00 **Celso Arango**, Spain
Longitudinal brain changes in child and adolescent first-episode psychosis
- 11:00-11:30 COFFEE BREAK
- 11:30-12:00 **Aysenil Belger**, USA
The neuronal circuitry of autism
- 12:00-12:30 **Louk Vanderschuren**, The Netherlands
Neurobiology of social reward: insights from play behaviour in adolescent rats
- 12:30-13:00 **Giovanni Laviola**, Italy
Critical age windows in neurodevelopmental psychiatric diseases: evidence from animal models
- 13:00-13:30 DISCUSSION
- 13:30-15:00 LUNCH

S5. STAGING PSYCHOTIC DISORDERS

In memoriam of Siegfried Tuinier

Chairpersons: Peter Kalivas and Roberto Rodríguez-Jiménez

- 15:00-15:30 **Richard Beninger**, Canada
Antipsychotic medications and memory in newly diagnosed schizophrenic patients
- 15:30-16:00 **Robin Murray**, UK
Why look for animal models of schizophrenia when drug-induced psychosis provides such a good model?
- 16:00-16:30 **Philip McGuire**, UK
Brain imaging in the early stages of psychosis: from at risk mental state to first episode
- 16:30-17:00 COFFEE BREAK
- 17:00-17:30 **Richard M Kostrzewa**, USA
Stereotypic progressions in psychotic behaviour
- 17:30-18:00 **Ralf Pukrop**, Germany
Neurocognitive indicators for a transition to psychosis
- 18:00-18:30 **José Luis Vázquez-Barquero**, Spain
Clinical outcome following prescribed neuroleptic discontinuation in first episode psychosis
- 18:30-19:00 **Anissa Abi-Dargham**, USA
A focus on dopamine through the stages of schizophrenia

19:00-19:30 DISCUSSION

19:30-20:30 POSTER ASSEMBLY

Saturday 17th October

S6. STAGING COGNITIVE DISORDERS

Chairpersons: Trevor Archer and Antonio Lobo

09:00-09:30 **Klaus Ebmeier, UK**
Imaging markers of mild cognitive impairment and Alzheimer's disease

09:30-10:00 **Jennifer L Whitwell, USA**
Progression of atrophy in Alzheimer's disease and related disorders

10:00-10:30 **Jorge H Medina, Brazil**
Mechanisms of memory persistence

10:30-11:00 **José Maria Delgado, Spain**
Functional basis of cognitive processes in transgenic mice

11:00-11:30 COFFEE BREAK

11:30-12:00 **Paul Ince, UK**
Patterns of alpha-synucleinopathy in Alzheimer's disease

12:00-12:30 **Martin Cammarota, Brazil**
Ventral tegmental area regulates the persistent storage of fear-motivated memories

12:30-13:00 **Carlos Acuña, Spain**
Decision making, behavioral supervision and learning

13:00-13:30 DISCUSSION

13:30-15:00 LUNCH

S7. STAGED NEUROPLASTICITY IN NEUROPSYCHIATRIC DISORDERS

Chairpersons: Bitá Moghaddam and Tomás Palomo

15:00-15:30 **Marina Wolf, USA**
Progressive dysregulation of glutamate synapses in addiction

15:30-16:00 **Peter Kalivas, USA**
The glutamate homeostasis hypothesis of addiction

- 16:00-16:30 **Anthony A Grace, USA**
Stress, drug abuse and schizophrenia: common pathophysiological variables underlying dopamine system dysregulation
- 16:30-17:00 COFFEE BREAK
- 17:00-17:30 **Charles Bradberry, USA**
Modeling the emergence of addiction related cognitive impairment with longitudinal studies in monkeys
- 17:30-18:00 **Robert M Post, USA**
Mechanisms of illness progression in the recurrent affective disorders
- 18:00-18:30 DISCUSSION
- 18:30 **Tomás Palomo, Spain**
Concluding Remarks