

Post-Symposium CME Course

Harnessing Neuroscience to Transform Psychiatry

Time and place

November 3rd, 2017. 12 00 – 16 00
Clinic for Psychiatry, CCS, Pasterova 2, Belgrade

Lecturer

Prof. Dr. Jeremy Hall

Professor of Psychiatry and Neuroscience
Director, Neuroscience and Mental Health Research Institute, Cardiff
University



Summary

Recent years have seen tremendous advances in the understanding of risk for psychiatric disorders. This has spanned across both genetics and the understanding of environmental risk factors. Recent large-scale genomic studies have revealed two broad classes of risk alleles for Schizophrenia: a polygenic component of risk, mediated through multiple common risk variants and rarer, more highly penetrant submicroscopic chromosomal deletions and duplications, known as copy number variants. The convergence of these implicated genes into a coherent biological pathway at the synapse, with a specific role in plasticity, provides a significant advance in understanding pathogenesis and points to new targets for biological investigation.

The statistical associations pave the way to understanding the underlying biology of disorders such as Schizophrenia and Autism Spectrum Disorder. In parallel, there has been major progress in relevant neuroscientific disciplines including imaging, gene manipulation and cellular modelling. For example, emerging data from imaging and genetic studies have generated interest in "clinically significant" biomarkers to predict response and prognosis. What constitutes "clinical significance" and how a biomarker would reach that threshold are unclear.

We consider the implications of this plethora of neuroscientific studies in the context of existing genetic data and the potential need to reassess diagnostic boundaries of neuropsychiatric disorders, before discussing ways forward for more directed mechanistic studies to develop novel stratified therapeutic approaches in the future.

In this workshop we will explore the potential for progress in the understanding and the treatment of psychiatric disorders offered by different technologies. We will show preliminary data of EU-GEI Research in Serbia and discuss the challenges that are associated with Neuroscience's fast development for Psychiatry today, as well as tomorrow.

Programme

Hours	Topic	Training Method*	Lecturer
12:00-13:00	Psychiatric genetics: overview	Lecture	J Hall
	Q & A		J Hall&audience
13:15-14:00	Translational research in genetics	Lecture	J Hall
	Q & A		J Hall&audience
14:00-14:30		Lunch	
14:30-15:30	Neurocognition and genetics	Lecture	J Hall
15:30-16:00	Clinical relevance of translational approach in psychiatry	Seminar	J Hall&audience

About the lecturer

Dr. Hall is the Director and Research Theme Lead of the Neuroscience & Mental Health Research Institute, Cardiff University. He employs a translational approach to study how genetic and environmental factors enhance risk for mental illness. Specifically, his research is particularly focused on how identified penetrant genetic risk factors affect plasticity and basic learning processes in the brain, abnormalities in which underlie the key symptoms seen in a range of Mental Health problems. He is the Principal Investigator of several research projects which are focused on: the role of psychiatric risk genes in learning and memory; expression and regulation of autism and schizophrenia associated genes; modulatory effects of early life experience on gene expression and psychiatric risk; and genetic effects on brain function and structure. He has authored close to 150 papers.

Organization

This course is accredited (A-1-1242/17 - 5 CME points).

The course is free for members of the Serbian Psychiatric Association (and its Section for Young Psychiatrists), and members of the Society for Biological Psychiatry.

For the non-members, the course fee is 2500 RSD (to be paid to Društvo za biološku psihijatriju, Komercijalna banka, Acc. No: 205-0000000177322-70 PIB 107527091, purpose – the course)

The deadline for the registration is [September 1st, 2017](#). Please contact Marina Mihaljevic (mihaljevicm@yahoo.com) for the registration.

Maximal number of participants – 80.