



KCL-Hong Kong Strategic Partnership:

**Workshop on Translational Medicine – Genomic, Imaging  
and Behaviour Approaches**

**17-18 June 2013**

**Faculty of Medicine, 21 Sassoon Road  
Hong Kong University**

**Department of Psychiatry  
Centre for Genomic Sciences  
State Key Laboratory for Brain and Cognitive Sciences**

Monday, 17 June 2013

9:00-9:10	Welcome <i>Prof Pak Sham</i>
9:10-9:30	KCL-HK Strategic Partnership: Overall workshop objectives <i>Prof Declan Murphy</i>
9:30-9:45	Overview of the EU-AIMS project <i>Prof Declan Murphy</i>
9:45-10:15	Accelerated longitudinal study: Design, phenotypic characterization, planned –omics/ genomics <i>Dr Eva Loth</i>
10:15-10:45	Neurodevelopmental approaches, high-risk infant sibling study <i>Dr Grainne McAlonan</i>
10:45-11:15	<i>Coffee break</i>
11:15-11:45	Cellular assays of patients with ASD and schizophrenia <i>Prof Jack Price</i>
11:45-12:15	Genetic study of autism from Chinese cohorts <i>Prof Kun Xia</i>
12:15-12:45	The Brain Structural Changes in Children with ASDs <i>Prof Xiaoyan Ke</i>
12:45-13:30	<i>Lunch</i>
13:30-14:00	Rehabilitation services and related research associated with Autism Spectrum Disorder in Heilongjiang province <i>Prof Lijie Wu</i>
14:00-14:30	Exploring the genetic mechanism of abnormal brain networks in <b>Schizophrenia</b> <i>Prof Tao Li</i>
14:30-15:00	<b>TBC</b> <i>Prof Eric Chen</i>
15:00-15:30	<i>Tea break</i>
15:30-16:00	Translational neuropsychology and cognitive neuroscience of mental disorders: An illustration with neurological soft signs: <i>Prof Raymond Chan</i>
16:00-16:30	Functional effects of susceptibility genes associated with affective disorder <i>Dr Danai Dima</i>
16:30-17:00	Genetic and genomic approaches in the study of psychosis <i>Prof Pak Sham</i>
18:00	Workshop dinner

Tuesday, 18 June 2013

Time	Welcome
9:00-9:15	<i>Prof Eric Chen</i>
9:15-10:45	Break-out A: Synergies for phenotypic case characterization: Schizophrenia <i>Chair: Prof Eric Chen, Prof Raymond Chan</i>
10:45-11:15	<i>Coffee break</i>
11:15-12:45	Break-out B: Synergies for phenotypic case characterization: ASD <i>Chair: Prof Kun Xia, Dr Grainne McAlonan</i>
12:45-14:00	<i>Lunch break faculty restaurant</i>
14:00-15:30	Break-out C: Genetic / neuroimaging / neurosciences methods <i>Chair: Prof Tao Li, Prof Pak Sham</i>
15:30-16:00	<i>Coffee break</i>
16:00-16:45	Summary of break-outs and main action points <i>Breakout Chairs</i>
16:45-17:45	Discussion: Next steps Student training, lab exchange <i>Chair: Prof Pak Sham, Prof Declan Murphy</i>

## Contributors

**Prof Eric Chen** is the Head of the Department of Psychiatry at the University of Hong Kong, and Honorary Consultant Psychiatrist, Queen Mary Hospital: He is the Director of the Psychosis Studies and Intervention Program, Director of the Jockey Club Early Psychosis Project and Convenor of Early Assessment Services for Psychosis, among others: His research interests span: (1) early detection and treatment of psychosis, optimal treatment for first and second episode psychosis, critical period management, factors affecting relapse and functional outcome; (2) using cognitive neuroscience methods to study brain dysfunctions in schizophrenia, including memory, attention, motor and executive functions, as well as innovative approaches to language and communicative processes; (3) studies addressing the formation of symptoms in psychosis with particular focus on early psychotic symptoms and insight, subjective experience of psychosis; (4) factors associated with suicidal ideation in early psychosis, and psychological autopsy studies:

[eyhchen@hku.hk](mailto:eyhchen@hku.hk)

**Prof Raymond Chan** is Professor of Neuropsychology and Applied Cognitive Neuroscience at the Institute of Psychology, Chinese Academy of Sciences, Beijing, PR China: His research interests include (1) the Study of neuropsychological performance (attention and executive function in particular) and everyday life cognitive errors in normal and clinical populations (e.g., patients with schizophrenia, frontal lobe lesions, and cardiovascular disease); (2) application of cognitive sciences to the development of clinical assessment and intervention for patients with cognitive impairments; (3) Measurement issues in clinical practice (e.g., development and validation of ecological valid test of neuropsychological performance, and articulating the laboratory-based test results to everyday life performance); (4) Coping and quality of life of patients with neurological and cognitive disorders:

[rckchan@psych.ac.cn](mailto:rckchan@psych.ac.cn)

**Dr: Danai Dima** received her Psychology degree from the Panteion University of Social and Political Sciences, Athens, Greece in 2003: She trained in Neuropsychology at the Hospital 'Aiginiteio', University of Athens: Following this, she completed a Masters Degree in Integrative Neuroscience at Imperial College London, UK: She was then awarded a Marie Curie Early Stage Training Fellowship for her PhD studies in Neuroscience which she completed in the Medical School Hannover, Germany in 2009: During her PhD she also trained at the Institute of Cognitive Neuroscience, University College London, UK: She is currently working as a Research Fellow at the MRC SGDP Centre, Institute of Psychiatry, King's College London: Her research focuses on the study of psychosis, mainly employing neuroimaging methods and connectivity analyses in combination with genetics:

[Danai.dima@kcl.ac.uk](mailto:Danai.dima@kcl.ac.uk)

**Prof Xiaoyan Ke** is Child Psychiatrist and Director of the Nanjing Child Mental Health Research Centre, Nanjing Brain Hospital: He received his PhD in Biomedical Engineering, Southeast University, PR China: His work focuses on early screening and intervention to establish early diagnostic prediction models of autism and to characterize abnormalities in brain structure and function in autism:

[kexynj@hotmail.com](mailto:kexynj@hotmail.com)

**Prof Tao Li** is the Director of the Mental Health Serve Centre, Sichuan University, Chengdu, Sichuan, PR China: Her research is focused on identifying the causes of psychiatric disorders and exploring novel medications for the treatment of psychiatric disorders, using molecular genetics, brain imaging and neuroscience approaches: As the chair of one of the four leading

mental health centers in China, the Mental Health Center of West China Hospital, she has been working on the development of mental health services for local communities, including mental crisis intervention after the 2008 earthquake in Sichuan, and the Foxconn suicides in 2010 among others: Prof Li received various honours and awards, including the Distinguished Professor Award: CMB (China Medical Board in Boston), 2010, the Natural Science Award (the first prize): Ministry of Education, PR China, 2007, and the Chinese Outstanding Young Female Scientist Award:

[Xuntao26@hotmail.com](mailto:Xuntao26@hotmail.com)

**Dr Eva Loth** is a cognitive developmental psychologist with a strong focus on autism and developmental disorders: She received her PhD at St Andrews University, Scotland: Following several fellowships at the Institute of Psychiatry (IoP), King's College London studying cognitive abnormalities in top-down processing in autism, she trained in neuroimaging at Cambridge University: She returned to the IoP in 2008 to lead the neuroimaging acquisition and analysis component of the multi-centre gene-neuroimaging project IMAGEN at the IoP: In 2012 she took up her current role as project science coordinator and manager of the EU-AIMS project:

[Eva.loth@kcl.ac.uk](mailto:Eva.loth@kcl.ac.uk)

**Dr Grainne McAlonan** is a senior lecturer at the Institute of Psychiatry, King's College and visiting professor at the University of Hong Kong: She received her medical training at University of Cambridge and University of London, U:K, and gained a PhD in behavioural neuroscience from University of Cambridge: Her research focus is on disorders of neurodevelopment, using MRI, along with neuropsychological and neurophysiological testing, to link brain and behaviour in people with autism, ADHD and schizophrenia: More recently, her work also includes modeling autism and schizophrenia in mice to probe brain structure, genetics and treatment approaches:

[Grainne.mcalonan@kcl.ac.uk](mailto:Grainne.mcalonan@kcl.ac.uk)

**Professor Declan Murphy's** main research interest is in the biological determinants of brain development and ageing; and how abnormalities in this process lead to neuropsychiatric disorders: He undertook his clinical training at the Maudsley Hospital: His research training was firstly at the Institute of psychiatry (IOP); and then at the National Institute on Aging (National Institutes of Health, USA): He is currently the Mortimer D Sackler Professor of Translational Neurodevelopment, Director of the Sackler Centre for Translational Neurodevelopment, and Head of Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London: He also acts as academic lead the IMI Project *European Autism Interventions - A Multicentre Study for Developing New Medications (EU-AIMS)*, the largest single grant for autism in the world, and the largest for the study of any mental health disorder in Europe:

[Declan.murphy@kcl.ac.uk](mailto:Declan.murphy@kcl.ac.uk)

**Prof Jack Price** is the Head of the Centre for the Cellular Basis of Behaviour at the Institute of Psychiatry: Prof: Price got his first degree with the Open University, then a PhD in Neurobiology from University College, London: Following post-doctoral training at MIT, he ran a research group at the National Institute for Medical Research, Mill Hill for eight years: He was then Director of Molecular Neuroscience at SmithKline Beecham Pharmaceuticals, until taking up his present position of Professor Developmental Neurobiology at the Institute in 1998: He became Director of the newly-former Centre for the Cellular Basis of Behaviour in 2006: Prof: Price has worked on neural stem cells in various guises for about twenty years, and has more recently been pursuing an interest in the development of psychiatric disorders: In addition

to his Institute post, he is currently Consultant and Director of Cell Biology for ReNeuron Ltd., a UK Biotech company developing stem cells for therapeutic and drug discovery applications:  
[Jack.price@kcl.ac.uk](mailto:Jack.price@kcl.ac.uk)

**Prof Pak Sham** is Chair Professor of Psychiatric Genomics, Director of the Centre of Genomics Sciences, and Co-Director of the State Key Lab in Brain and Cognitive Sciences in the the University of Hong Kong: He attended Cambridge and Oxford Universities, and trained in Psychiatry at the Northwick Park and Shenley Hospitals, and the Bethlem Royal and Maudsley Hospitals, UK: He obtained an MSc in Applied Statistics from Birkbeck College London (1991) and visited the Virginia Commonwealth University, USA (1992): He was appointed Professor of Psychiatric & Statistical Genetics (2000-06) at Institute of Psychiatry, King's College London: Prof Sham's research interests include the genetics and epidemiology of psychiatric disorders, and the statistical methodology for genetic and epidemiological studies: Prof Sham is the author "*Statistics in Human Genetics*" (1997) published by Arnold, and an editor of "*Analysis of Multifactorial Disease*" (2000) published by Bios:

[pcsham@hku.hk](mailto:pcsham@hku.hk)

**Prof Lijie Wu** is Professor of Child and Adolescent Health and Maternal Care at Harbin Medical University, PR China: Her interest and expertise include epidemiological and genetic susceptibility association studies of autism, screening and identification of de novo mutations in twins with autism, and diagnosis and prevention technologies of autism and related disorders:

[wulijie\\_123@yahoo.com.cn](mailto:wulijie_123@yahoo.com.cn)

**Prof Kun Xia** is the Executive Deputy Director of the State Key Lab of Medical Genetics, and Dean of the School of Biological Science and Technology, Central South University: Among numerous fellowships and awards he received the 9<sup>th</sup> China Youth Science and Technology Award (2006), the State Council Expert for Special Allowance (2010) and the CMB Distinguished Professorship (2011): Prof Xia acts as Chief Scientist of the State "973 Program grant" on autism

[xiakun@sklmg.edu.cn](mailto:xiakun@sklmg.edu.cn)