

Childhood and Adolescence
Psychopathology:
unravelling the complex etiology
by a large Interdisciplinary
Collaboration in Europe

Del. 7.3 Training. Statistical Genetics - twin studies

Work Package: WP 7

Lead partner: King's College London, KCL

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Dissemination Level		
PU: Public	✓	
PP: Restricted to other programme participants (including the Commission)		
RE: Restricted to a group specified by the consortium (including the Commission)		
CO: Confidential, only for members of the consortium (including the Commission)		





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Definitions and acronyms

DM	Dissemination Manager	
DOW	Description of Work	
ESR	Early Stage Researcher	
MT	Management Team	
PC	Project Coordinator	
SC	Scientific Coordinator	



1. Brief desciption of the course

The first workshop for ESRs was held at the Social, Genetic and Developmental Psychiatry Centre, Institute of Psychiatry, Psychology and Neuroscience, King's College London from the 22nd of January till the 24th of January. The goal of the workshop was to provide an overview of the field of behavioural genetics, covering both quantitative and molecular research. All ESRs were sent a copy of Behavioural Genetics book (Knopik, Neiderhiser, DeFries, Plomin, 2018) to read independently before attending the workshop. The aim of the training was to cover the history of behavioural genetics, the methods used and the main findings in relation to developmental psychopathology. The course also covered the new cutting edge methods used in the field of psychiatric genetics and discussed where the field is heading. The course was taught by some of the leaders in the field of psychiatric genetics (see list of lecturers).



During the workshop ESRs had the opportunity to meet Sir Professor Michael Rutter, who was the first professor of child psychiatry in the UK and is often described as the 'father of child psychology'. Sir Professor Michael Rutter was interviewed by Professor Robert Plomin, covering his career, his main research findings as well as his views about the field right now.





Professor Christel Middeldorp and Professor Meike Bartels from the VU presented an overview of the CAPICE project and answered questions of the ESRs, e.g., regarding the training plans. In addition, the students presented their projects in a two minute pitch (that will also be used for the website).





2. List of particpiants

Beneficiary	ESR
VU University	Wonu Akingbuwa
VU University	Eshim Shahid
King's College	Andrea Allegrini
University of Gothenburg	Sabrina Doering
University of Bristol	Elis Haan
University of Bristol	Laura Schellhas
Erasmus University	Elizabeth Diemer
Karolinska Institutet	Ashley Thompson
University Twente	Kratika Agarwal
University of Cagliari	Hema Sekhar Reddy Rajula
Imperial College	Ville Karhunen
Janssen	Marica Leone



3. List of lecturers

Developmental e, King's College London niatry Centre at the	
e, King's College London	
e, King's College London	
niatry Centre at the	
atry Centre at the	
stitute of Psychiatry,	
atry Centre at the	
Social, Genetic and	
Developmental Psychiatry Centre at the Institute of Psychiatry, Psychology and Neuroscience, King's	
Professor of Child and Youth Psychiatry, Vrije Universiteit Amsterdam, The Netherlands	
herlands	
Psychiatry Centre at the	
ocial, Genetic and	
nd Neuroscience, King's	
Centre at the Institute	
atry Centre at the	
Developmental	
e, King's College London	



4. Workshop schedule

CAPICE	workshop on genetics and developmental psyc	hopathology
	22-24 January 2018	
	SGDP Centre	
	Institute of Psychiatry, Psychology and Neuroscie King's College London	ence
Monday 22	Time o contege zonati	
January		
9:30 - 10:00	Coffee – get together	
10:00- 10:15	Welcome and general introduction	Kaili Rimfeld
10:15 - 10:30	Welcome to the SGDP	Franky Happe
10:30 - 11:30	History of behavioural genetics (BG) and top 10 findings	Robert Plomin
11:30 – 12:15	Interview with Professor Sir Michael Rutter	Robert Plomin
12:15 - 14:00	Lunch at 'Theo's	
14:00 – 15:00	Twin methods: Basics of adoption and twin designs / univariate and bivariate models	Kaili Rimfeld
15:00 - 16:00	Twin methods: Multivariate models	Laurie Hannigan
16:00 - 16:15	coffee	
16:15 – 17:15	Twin methods: Co – TEDS	Tom McAdams
17:15 - 19:00	Drinks reception at SGDP	

Tuesday 23		
January		
8:00 - 9:00	Coffee	
9:00 - 10:00	Gene environment correlation and interaction in the development and treatment of anxiety and depression	Thalia Eley
10:00 - 11:00	The role of genetic and other familial factors in psychiatric symptoms across the lifespan	Christel Middeldorp
11:00- 11:30	Coffee	
11:30 – 12:30	The developmental interplay between genes and environment	Louise Arseneault
12:30 - 13:30	Lunch at the SGDP	
13:30 - 14:45	Introduce CAPICE project	Christel
14:4515:15	2-min student project descriptions	Middeldorp and
15:15 - 15:30	Q&A	Meike Bartels
15:45 - 17:30	Lab tour + brain bank tour	
18:30 late	Dinner at The Shard (London Bridge)	

Wednesday 24		
January		
9:00 - 9:15	Coffee	
9:15 - 10:15	Finding genes	Cathryn Lewis
10:15 - 10:30	Coffee	
10:30 - 11:30	Polygenic scores – hype or hope?	Paul O'Reilly
11:30 12:30	Polygenic scores – methods	Joni Coleman
12:30 - 14:00	Pub lunch at 'Phoenix'	
14:00 - 15:00	Future of polygenic scores	Gerome Breen
15:00 - 16:00	Q&A	



5. Annex I

Certificate of the workshop

