Day/Time	Session/ Presentation Title	Speakers
Sunday 26 April 2015		
Evening	19:00-21:00 **Welcome reception with finger foods and drinks.**	
Monday 27 April 2015		
Morning	**Session 1 Genes and genetic networks disrupted in Intellectual Disability**	
09:00-09:30	**- Genetic & Epigenetic Pathways of Disease**	**- Hans van Bokhoven**
09:30-10:00	**- Intellectual disability and related disorders: genetic progress and remaining challenges**	**- Hans-Hilger Ropers**
10:00-10:15	**- Pathway analyses of whole genome sequence data identifies novel candidate Intellectual Disability genes**	**- Farah Zahir**
10:15-10:30	**- Genetic and molecular basis of ID in Pakistani populations**	**- Sheikh Riazuddin**
10:30-11:00	**Coffee break**	
	Session 2 Building bridges across Cognitive Disorders (CD)	
11:00-11:30	**- Transcriptomes, twins, and single cells: delightful liaisons**	**- Stylianos Antonarakis**
11:30-12:00	**- Developmental disorders, genetic interactions and a functionally-clustered genome**	**- Caleb Webber**
12:00-12:15	**- GABA/Glutamate synaptic pathways targeted by integrative genomic and electrophysiological explorations distinguish autism from intellectual disability**	**- Frédéric Laumonier**
12:15-12:30	**- A miRNA signature emphasizes epigenetic misregulation in Autism Spectrum disorders**	**- Lam Son Nguyen**
12:30-14:00	**Lunch break**	
	Session 3 Epigenetic mechanisms in CD	
14:00-14:30	**- Gene regulation dynamics and chromatin architecture during development and evolution**	**- José-Luis Gómez-Skarmeta**
14:30-15:00	**- Reading the code: Epigenetic mechanisms in brain diseases**	**- André Fischer**
15:00-15:15	**- EHMT1/2 mediated histone methylation underlies homeostatic synaptic scaling by targeting BDNF**	**- Marco Benevento**
15:15-15:30	**- The role of EHMT1 and MLL3 in learning and memory**	**- Tom Koemans**
15:30-16:00	**Coffee break**	
Afternoon	**Session 4 Disease mechanisms in CD**	
16:00-16:30	**- From molecules to behaviour: disentangling FXS and ASD**	**- Claudia Bagni**
16:30-17:00	**- High throughput standardized investigation of mouse models in Cognitive Dysfunctions: The GENCODYS experience.**	**- Yann Herault**
17:00-17:15	**- Novel mutations in *IL1RAPL1* associated with intellectual**	**- Pierre Billuart**

	disability impair synapse formation	
17:15-17:30	- E3 ubiquitin ligase RLIM/*RNF12* defects lead to a novel X-linked intellectual disability disorder in which the cognitive/behavioral phenotype of carrier females is rescued by favorable nonrandom X-inactivation	- Suzanna Frints
Evening	18:00-20:00 **Poster Session with drinks** 20:00 **Dinner**	
Tuesday 28 April 2015		
Morning	**Session 5** **Molecular mechanisms in CD: how mutations disrupt synaptic protein machines**	
09:00-09:30	- How is our behavioural repertoire built?	- Seth Grant
09:30-10:00	- Highly translational touchscreen phenotyping of mice bearing disease-relevant mutations	- Alexa Horner
10:00-10:15	- GABAergic synaptic plasticity in medial prefrontal cortex of Fmr1-KO mouse model: timing and time windows	- Rhiannon Meredith
10:15-10:30	- NONO mutations cause syndromic intellectual disability and inhibitory synaptic defects	- Laurence Colleaux
10:30-11:00	Coffee break	
	Session 6 **Molecular and cellular mechanisms of CD**	
11:00-11:30	- Insights from Genomic approach into the understanding of human brain development	- Jamel Chelly
11:30-12:00	- Mitochondrial Dysfunction in Intellectual Disability	- Patrik Verstreken
12:00-12:15	- Phenotypic variability between *OCRL*-mutated fibroblasts from patients with Dent-2 disease or Lowe syndrome	- Olivier Dorseuil
12:15-12:30	- Clinical, genomic and functional characterization of 2p15.3-16.1 microdeletion syndrome	- Evica Rajcan-Separovic
12:30-12:45	- Characterization of the Arx c.428_451dup24 KI mouse line, model of ARX most frequent mutation	- Aline Dubos
12:45-14:15	Lunch break	
Afternoon	**Social Event: Visit Chania** **Dinner and Party**	
Wednesday 29 April 2015		
Morning	**Session 7** **Genomics in cognition across species**	
09:00-09:30	- Identifying the molecular systems disrupted in ID and their genes	- Martijn Huijnen
09:30-10:00	- Human Phenotype Ontology: Algorithms and Applications	- Peter Robinson
10:00-10:15	- 9.6% of mouse gene knockouts show abnormal neuroanatomy: a resource to identify genes related to intellectual disability in human	- Binnaz Yalcin
10:15-10:30	- Using high-throughput light-off jump reflex habituation to	- Michaela Fenckova

	understand learning deficits in *Drosophila* models of ID	
10:30-11:00	Coffee break	
	Session 8 **Pre-clinical studies towards therapeutic intervention**	
11:00-11:30	- Developing a fruit fly neuro-behaviour test battery	- Zoltan Asztalos
11:30-12:00	- Mouse models for rare disorders: from mechanisms to trials	- Ype Elgersma
12:00-12:15	- Investigating *Dyrk1a* gene dosage effect in glutamatergic neurons in a mouse model for Down syndrome	- Véronique Brault
12:15-12:30	- Haploinsufficiency of MECP2-interacting transcriptional co-repressor SIN3A causes mild intellectual disability by affecting the development of cortical integrity	- Tjitske Kleefstra
12:30-14:00	Lunch break	
Afternoon	**Session 9** **Diagnosis of CD: "common practice of prevention, present and future"**	
14:00-14:30	- De novo mutations in intellectual disability	- Joris Veltman
14:30-15:00	- Whole Exome Sequencing in Research and Diagnosis of Intellectual Disability	- Hossein Najmabadi
15:00-15:15	- Exome sequencing in patients with Circumferential skin creases Kunze type: Evidence for locus heterogeneity	- Hilde Van Esch
15:15-15:30	- How to make patients benefit more from genetic research and genetic research from patients	- Cor Oosterwijk
15:30-16:00	Coffee break	
	Session 10 **Strategies for therapeutic intervention: improving care for patients**	
16:00-16:30	-Translating molecular advances into therapy	- Sébastien Jacquemont
16:30-17:00	-Rare Chromosome Disorder Support Group, 'Unique'	- Sarah Wynn
17:00-17:30	-Patient oriented planning for optimal translational strategy	- Florence Bietrix
Evening	**Dinner**	