

Time	Topic	Speaker
08:00	Welcome and registration	
08:30	Welcome speeches: Overview of epiXchange projects	<i>Coordinators of DESIRE, EpiCare, EpimiRNA, EpiPGX, EPISTOP, EpiTarget, Epixchange ITN</i>
09:05	Thematic session: Biomarkers	<i>Chairs: A. Pitkänen, M. Simonato</i>
	Short overview of current status of research, impact and gaps to be filled in the area of biomarkers	<i>A. Pitkänen (University of Eastern Finland), M. Simonato (Università degli Studi di Ferrara)</i>
	Epigenetic biomarkers in FCDs	<i>K. Kobow (DESIRE – Friedrich-Alexander-Universität Erlangen-Nürnberg)</i>
	MicroRNA as biomarkers of epilepsy and status epilepticus	<i>F. Rosenow (EpimiRNA – Goethe-Universität Frankfurt & Philipps-Universität Marburg)</i>
	Predictors of adverse reactions to AEDs	<i>G. Cavalleri (EpiPGX – Royal College of Surgeons in Ireland)</i>
	EEG changes as biomarker for emerging epilepsy in TSC	<i>L. Lagae (EPISTOP – Katholieke Universiteit Leuven)</i>
	HMGB1 as a predictive biomarker for preclinical and clinical studies	<i>A. Vezzani (EpiTarget – Mario Negri Institute)</i>
10:15	Coffee break and poster session	
10:45	Thematic session: Genetics	<i>Chairs: D. J. Kwiatkowski, R. Guerrini</i>
	Short overview of current status of research, impact and gaps to be filled in the area of genetics	<i>D. J. Kwiatkowski (Harvard University), R. Guerrini (Università degli Studi di Firenze)</i>
	Genetics of epileptogenic disorders: update and consequences on patients' therapeutic management	<i>J. Chelly (DESIRE – IGBMC) and R. Guerrini (DESIRE – Università degli Studi di Firenze)</i>
	The emerging role of genetics in the clinical care pathway	<i>R. Nabbout (EpiCARE – CHU Paris)</i>
	Genetic variation in microRNAs and their targets in epilepsy	<i>I. Lopes-Cendes (EpimiRNA – Universidade Estadual de Campinas)</i>
	Predictors of responses to AEDs	<i>H. Lerche (EpiPGX – Universität Tübingen)</i>
	Genetics and mosaicism in Tuberous Sclerosis Complex: preliminary analysis of association with seizure phenotype in EPISTOP	<i>D. Kwiatkowski (EPISTOP – Harvard University)</i>
	Functional epigenomic dissection of epilepsy in human brain biopsy tissue and corresponding mouse models	<i>A. Becker (EpiTarget – Universität Bonn)</i>
12:10	Lunch and poster session	
13:40	Thematic session: Therapeutics	<i>Chairs: F. Rosenow, M. Kokaia</i>
	Short overview of current status of research, impact and gaps to be filled in the area of therapeutics	<i>F. Rosenow (Goethe-Universität Frankfurt & Philipps-Universität Marburg), M. Kokaia (Lunds Universitet)</i>
	Innovative therapeutic strategies for epileptic encephalopathies	<i>F. Benfenati (DESIRE – Istituto Italiano Di Tecnologia)</i>
	Improving clinical trials in epilepsy: addressing the hurdles and filling the gaps	<i>E. Perucca (EpiCARE – ILAE/ Università degli Studi di Pavia)</i>
	MicroRNAs as targets for seizure control and disease-modification	<i>D. Henshall (EpimiRNA – Royal College of Surgeons in Ireland)</i>
	Preseizure vs postseizure treatment of epilepsy - pros and cons	<i>S. Jóźwiak (EPISTOP – Warszawski Uniwersytet Medyczny)</i>

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	Evaluation of tolerability and antiepileptogenic efficacy of multitargeted drug combinations by a two-stage approach	<i>W. Löscher (EpiTarget – Stiftung Tierärztliche Hochschule Hannover)</i>
	Differential Effect of Neuropeptides on Excitatory Synaptic Transmission in Human Epileptic Hippocampus	<i>M. Ledri (EpiXchange – Lunds Universitet)</i>
15:00	Thematic session: Co-morbidities	<i>Chairs: H. Cross, S. Jóźwiak</i>
	Short overview of the current status of research, impact and gaps to be filled in the area of co-morbidities	<i>H. Cross (University College London), S. Jóźwiak (Warszawski Uniwersytet Medyczny)</i>
	Perspectives for investigating physiopathological mechanisms of comorbidities in epilepsy	<i>A. Represa (DESIRE – INSERM)</i>
	Predictors of response and resistance and co-morbidities	<i>C. Leu (EpiPGX – University College London)</i>
	Autism in tuberous sclerosis: early developmental trajectories, potential biomarkers and treatment strategies	<i>P. Curatolo (EPISTOP – Policlinico Tor Vergata)</i>
	Systems genetic evidence for a convergence of epilepsy and its „co-morbidies“ on shared molecular pathways	<i>M. Johnson (EpiTarget – Imperial College London)</i>
	Effects on seizures and epilepsy co-morbidities of encapsulated BDNF-producing cells	<i>C. Falcicchia (EpiXchange – Università degli Studi di Ferrara)</i>
16:10	Coffee break and posters	
16:40	Thematic session: Biobanks and databases	<i>Chairs: S. Sisodiya, K. Kobow</i>
	Short overview of the current status of research, impact and gaps to be filled in the area of biobanks and databases	<i>S. Sisodiya (University College London), K. Kobow (Friedrich-Alexander-Universität Erlangen-Nürnberg)</i>
	The European Epilepsy Brain Bank: 25 years of experience with difficult-to-treat epilepsies in 9523 children and adults	<i>I. Blümcke (DESIRE & EpiCARE – ILAE/ Friedrich-Alexander-Universität Erlangen-Nürnberg)</i>
	EpimiRBase and a multi-omic Atlas of functional microRNA for epilepsy	<i>A. Ahonen-Bishopp (EpimiRNA – BCPlatforms)</i>
	Controlled access resources for genetic and pharmacogenetics research for epilepsy	<i>R. Krause (EpiPGX – Université du Luxembourg)</i>
	Biobanking in Tuberous Sclerosis Complex: challenges and opportunities for understanding epilepsy and cognitive and behavioral comorbidities	<i>E. Aronica (EPISTOP – Universiteit van Amsterdam)</i>
	Database for powered preclinical multicenter trial	<i>A. Pitkänen (EpiTarget – University of Eastern Finland)</i>
17:50	Closing remarks	
18:00	End of conference	