

STIPED Symposium

Non-invasive brain stimulation in children and adolescents with neuropsychiatric disorders: recent experiences and perspectives



Location

Hotel Condes de Barcelona

Passeig de Gràcia, 73, Barcelona B 08008
Burdeos and Ambar Meeting rooms

Organizing Committee



[Evangelisches Klinikum Bethel](#), Bielefeld, Germany - Coordinator of STIPED
Prof Michael Siniatchkin michael.siniatchkin@evkb.de
Dr. Julia Siemann julia.siemann@evkb.de



[ARTTIC Innovation GmbH](#), Munich, Germany – Partner in the project – Project Management & Dissemination, Communication
Dr. Otilia Postea postea@arttic-innovation.de



[Neuroelectrics SL](#), Barcelona, Spain – Partner in the project and Local organizer
Isabel Botey (isabel.botey@starlab.es)
Cristina González (cristina.gonzalez@neuroelectrics.com)
Ricardo Salvador (ricardo.salvador@neuroelectrics.com)



Programme

Information for all presenters: Please consider 25 minutes for your talk and allocate 5 minutes for discussion/questions (Q&A)

Tuesday, 31 May 2022		
08:45	Welcome coffee	
09:00	Welcome and short round of introductions	Michael Siniatchkin, coordinator STIPED
09:10	Introduction: Non-invasive electrical stimulation in neuropsychiatric disorders	Michael Nitsche
tDCS in children		
09:40	TDCS in neurodevelopmental disorders: Overview & perspectives of the STIPED consortium	Michael Siniatchkin
10:10	tDCS in the pediatric brain: challenges and open questions	Vera Moliadze
10:40	Ethical considerations for tDCS for neurodevelopmental disorders	Anna Sierawska
11:10	Coffee Break	
Neurotherapy in treatment of ADHD		
11:30	Neurotherapies for ADHD: do they work?	Katya Rubia
12:00	The right inferior frontal gyrus as a target for tDCS in ADHD	Kerstin Krauel
12:30	tDCS over the IDLPFC in ADHD: Impact of non-invasive brain stimulation on working memory performance	Alexander Prehn
13:00	Group photo	
13:15	Lunch break	
Modelling for individualized brain stimulation		
14:00	Individualized EEG/MEG targeting and optimized multi-channel transcranial electric stimulation in focal epilepsy	Carsten Wolters
14:30	Modelling of individual anatomy from MRI scans: application to children and adolescents	Oula Puonti
15:00	Montage optimization in tDCS: advantages and future challenges	Ricardo Salvador
15:30	Personalized field modelling: How good is it already, and how do we improve it further?	Axel Thielscher
16:00	Coffee break	
16:30 - 18:00	Poster Session	
19:00	Working Dinner at MUSSOL Arenas Restaurant Gran Vía de las Cortes Catalanas 373-385, 08015 Barcelona	



Wednesday, 1 June 2022		
tDCS for Autism and other neuropsychiatric disorders		
09:00	Overview of randomized controlled trials applying tDCS in major neurodevelopmental disorders: ADHD, autism and dyslexia	Ali Salehinejad
09:30	The temporo-parietal junction as a target for tDCS in ASD	Miguel Castelo Branco
10:00	Feasibility and behavioral effects of anodal tDCS over the bilateral temporo-parietal junction in Autism Spectrum Disorder - results from a phase IIa randomized controlled trial.	Christine Freitag
10:30	Coffee Break	
Predicting outcome of brain stimulation		
11:00	EEG readouts as outcome measures for clinical trials	Emily Joes
11:30	Predicting the individual's response to tDCS using neuroanatomical markers	Christine Ecker
12:00	Unsupervised learning for NIBS patient stratification	Aureli Soria-Frisch
13:00	Lunch break	
Advanced Application of tDCS		
13:30	Non-invasive brain stimulation in children and adolescents with Specific Learning Disorders: evidence for effectiveness and perspectives	Deny Menghini
14:00	Neuromodulation of the frontal brain - benefits of integrating multimodal off- and online neuroimaging methods	Daniel Keeser
14:30	Opportunities and risks of home-based tDCS for children and adolescents with ADHD	Fabienne Schlechter
15:00	Concluding remarks & Discussions	Michael Siniatchkin
16:00	End of STIPED Symposium	

Symposium speakers:

First name	Last name	Organisation
Deni	Menghini	Bambino Gesu Hospital, Neuroscience, Roma, Italy
Miguel	Castelo-Branco	University of Coimbra
Christine	Ecker	Goethe University Frankfurt



Christine	Freitag	Goethe University Frankfurt
Emily	Jones	Centre for Brain & Cognitive Development, Birkbeck, University of London
Daniel	Keeser	Department of Psychiatry and Psychotherapy, Department of Radiology, University Hospital LMU
Kerstin	Krauel	University of Magdeburg
Vera	Moliadze	CAU-IMPS Kiel
Michael	Nitsche	TU Dortmund
Oula	Puonti	DRCMR/RegionH Copenhagen
Alexander	Prehn-Kristensen	ZIP, Kiel
Katya	Rubia	King's College London · Department of Child and Adolescent Psychiatry
Mohammed Ali	Salehinejad	TU Dortmund
Ricardo	Salvador	Neuroelectrics, Barcelona
Fabienne	Schlechter	Child and Adolescence Psychiatry, EvKB Bielefeld
Anna	Sierawska	Technical University Munich
Michael	Siniatchkin	Child and Adolescence Psychiatry, EvKB Bielefeld
Aureli	Soria-Frisch	Starlab, Barcelona
Axel	Thielscher	DRCMR/RegionH Copenhagen
Carsten	Wolters	SAB/University of Münster

Posters:

1. Transcranial Direct Current Stimulation and executive functions among children and adolescents: an overview (Dr. Julia Siemann, Child and Adolescence Psychiatry, EvKB, Germany)
2. Therapy in a home-based setting: An adaptive, digital working memory training for children and adolescents with ADHD (M.Sc. Fabienne Schlechter, Child and Adolescence Psychiatry, EvKB, Germany)
3. Neural correlates of intention attribution in children and adolescents with Autism Spectrum Disorder (Dr. Christine Luckhardt, Department of Child and Adolescent Psychiatry, Psychotherapy and Psychosomatics, GU, Germany)



4. Perceptual expectations differentially modulate neural correlates of perception and attention during visuospatial orienting in children and adolescents with Autism Spectrum Disorder (Sara Boxhoorn, Department of Child and Adolescent Psychiatry, Psychotherapy and Psychosomatics, GU, Germany)
5. The impact of bilateral anodal tDCS over left and right DLPFC on executive functions in children with ADHD (Ali Salehineyad, Department of Psychology and Neuroscience, Leibniz Research Centre for Working Environment & Human Factors, Dortmund, Germany)
6. Does tDCS influence voice processing in teenagers with autism? An fMRI case study of 3 teenagers (Camille Ricou, University of Tours, France)
7. Theta-phase gamma-amplitude coupling during working memory and interference control processes in children with ADHD - work in progress (Hannah Brauer, Institut für Psychologie, Christian-Albrechts-Universität, Germany)
8. Optimize parameters for effective transcranial direct current stimulation (tDCS) based on individual modelling (Dania Stolle, Child and Adolescence Psychiatry, EvKB, Germany)
9. Influence of tDCS on emotion regulation processes in adolescents with psychiatric disorders (Isabel Wrachtrup-Calzado, Child and Adolescence Psychiatry, EvKB, Germany)
10. Boosting numerical cognition in children and adolescents with dyscalculia by transcranial random noise stimulation and cognitive training: preliminary data of a randomized clinical trial (Giulia Lazzaro, Bambino Gesù Hospital, Neuroscience, Roma, Italy)
11. The efficacy of non-invasive brain stimulation in the treatment of adolescents with Anorexia Nervosa: preliminary data of a randomized clinical trial (Luciana Ursumando, Bambino Gesù Hospital, Neuroscience, Roma, Italy)
12. Comparing the effect of Methylphenidate and anodal tDCS on inhibitory control and working-memory in children and adolescents with Attention Deficit/Hyperactivity Disorder (Barbara D'Aiello, Bambino Gesù Hospital, Neuroscience, Roma, Italy)

