



Stimulation in Pediatrics



STIPED Symposium

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



Non-invasive brain stimulation in pediatric neuropsychiatric disorders

Location

Hotel Condes de Barcelona

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

Organizing Committee

EVANGELISCHES
KLINIKUM Bethel



[Evangelisches Klinikum Bethel](https://www.evkb.de), Bielefeld, Germany - Coordinator of STIPED

Prof Michael Siniatchkin michael.siniatchkin@evkb.de

Dr. Julia Siemann julia.siemann@evkb.de



[ARTTIC Innovation GmbH](https://www.arttic-innovation.de), Munich, Germany – Partner in the project – Project Management & Dissemination, Communication

Dr. Otilia Postea postea@arttic-innovation.de



[Neuroelectricity SL](https://www.neuroelectricity.com), Barcelona, Spain – Partner in the project and Local organizer

Dr. Marta Castellano marta.castellano@neuroelectricity.com

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Local organizing team



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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 in the treatment of underage clinical populations	Alena Buyx
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	



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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 - location tbc	

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 tempo-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, Caroline Mann
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 Symposium	



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Symposium speakers:

First name	Last name	Organisation	E-Mail
Deni	Menghini	Bambino Gesu Hospital, Neuroscience, Roma, Italy	deny.menghini@opbg.net
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Emily	Jones	Centre for Brain & Cognitive Development Birkbeck, University of London London WC1E 7HX	e.jones@bbk.ac.uk
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Michael	Siniatchkin	Child and Adolescence Psychiatry, EvKB Bielefeld	Michael.Siniatchkin@evkb.de
Aureli	Soria-Frisch	Starlab, Barcelona	aureli.soria-frisch@starlab.es
Axel	Thielscher	DRCMR/RegionH Copenhagen	axelt@drcmr.dk
Carsten	Wolters	SAB/University of Münster	carsten.wolters@uni-muenster.de

Posters:

1. Transcranial Direct Current Stimulation and executive functions among children and adolescents: an overview (Dr. Julia Siemann, Child and Adolescence Psychiatry, EvKB, Germany, julia.siemann@evkb.de)
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, Fabienne.schlechter@evkb.de)
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, Christine.luckhardt@kgu.de)
4. Perceptual expectations differentially modulate neural correlates of perception and attention during visuospatial orienting in children and adolescents with Autism Spectrum Disorder (Department of Child and Adolescent Psychiatry, Psychotherapy and Psychosomatics, GU, Germany, sara.boxhoorn@kgu.de)
5. The impact of bilateral anodal tDCS over left and right DLPFC on executive functions in children with ADHD (Ali Salehinejad)
6. Does tDCS influence voice processing in teenagers with autism? An fMRI case study of 3 teenagers (Camille Ricou)
7. Theta-phase gamma-amplitude coupling during working memory and interference control processes in children with ADHD - work in progress (Hannah Brauer)
8. Optimize parameters for effective transcranial direct current stimulation (tDCS) based on individual modelling (Dania Stolle)
9. Influence of tDCS on emotion regulation processes in adolescents with psychiatric disorders (Isabel Wrachtrup-Calzado)

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 1, Andrea Battisti 1,2, Cristiana Varuzza 1, Laura Celestini 1, Pierpaolo Pani 3, Floriana Costanzo 1, Stefano Vicari 1,4, Roi Cohen Kadosh 5,6 and Deny Menghini 1)
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 1, Giulia Lazzaro 1, Viviana Ponzo 2, Alessio Maria Monteleone 3, Deny Menghini 1, Elisa Fucà 1, Silvia Picazio 4,5, Romina Esposito 4, Giacomo Koch 4,6, Valeria Zanna 1, Stefano Vicari 1,7, Floriana Costanzo 1)

Location details

Hotel Condes de Barcelona

Passeig de Gràcia, 73, Barcelona B 08008

Tel: +34 93 445 00 00; Fax: +34 94 445 32 32

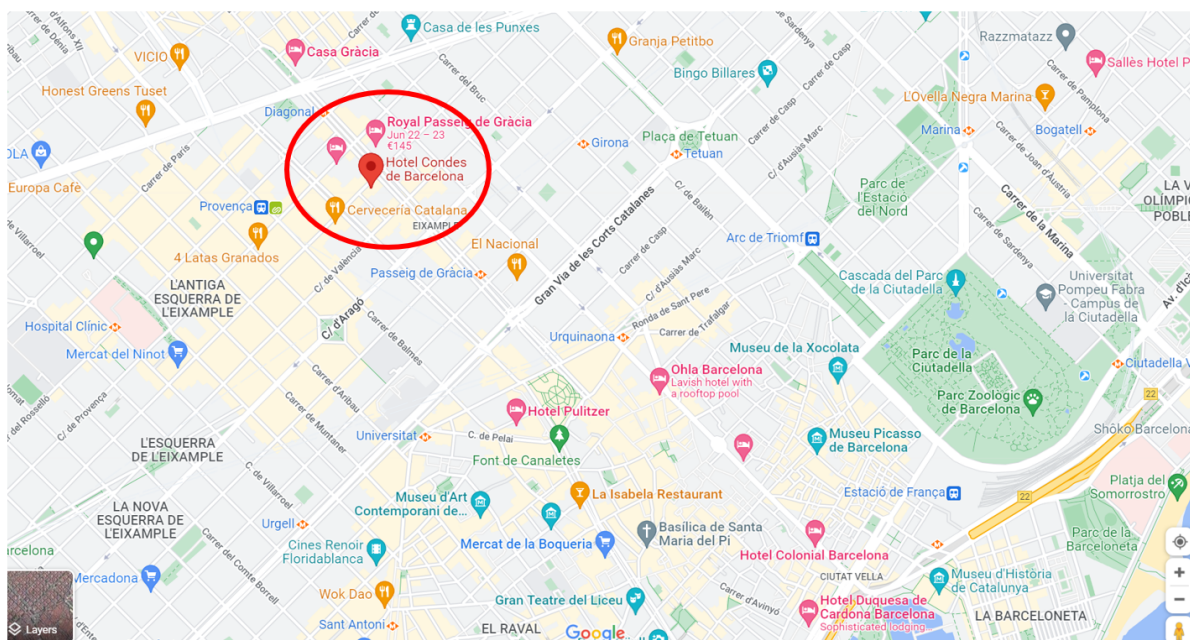
E-mail: info@condesdebarcelona.com

[Hotel Condes de Barcelona in Passeig de Gracia | Official Web](#)

Burdeos and Ambar Meeting rooms

Travel itinerary

The meeting will take place at the HOTEL CONDES DE BARCELONA as indicated above.



How to get to the Hotel Condes de Barcelona?

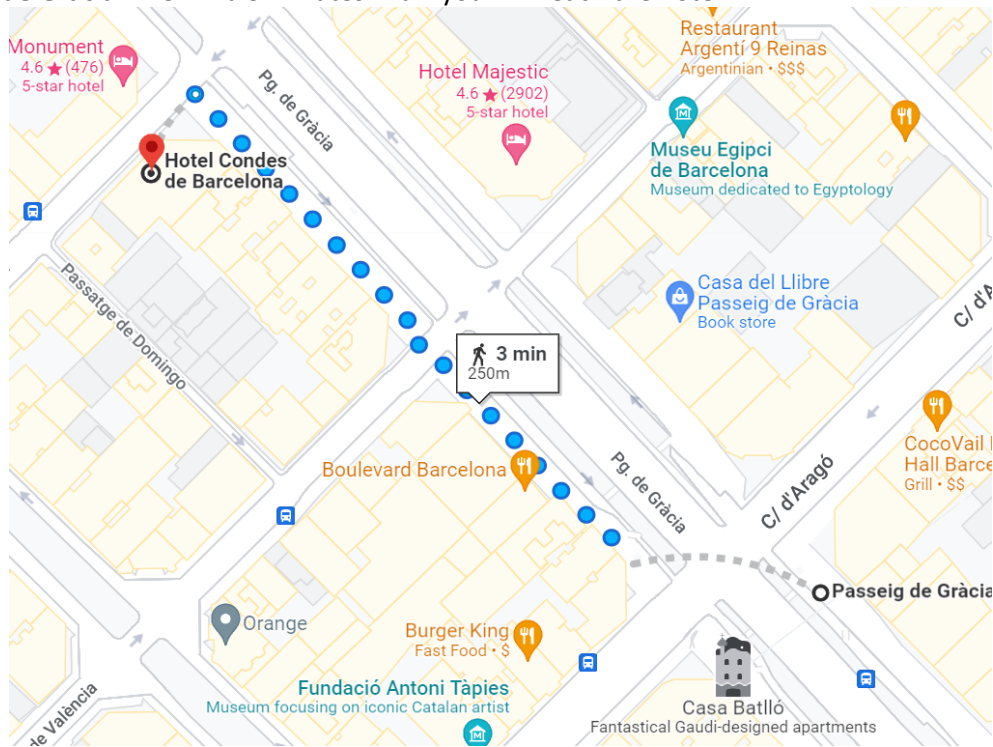
If you are coming to Barcelona by plane.

Taxi from the Airport

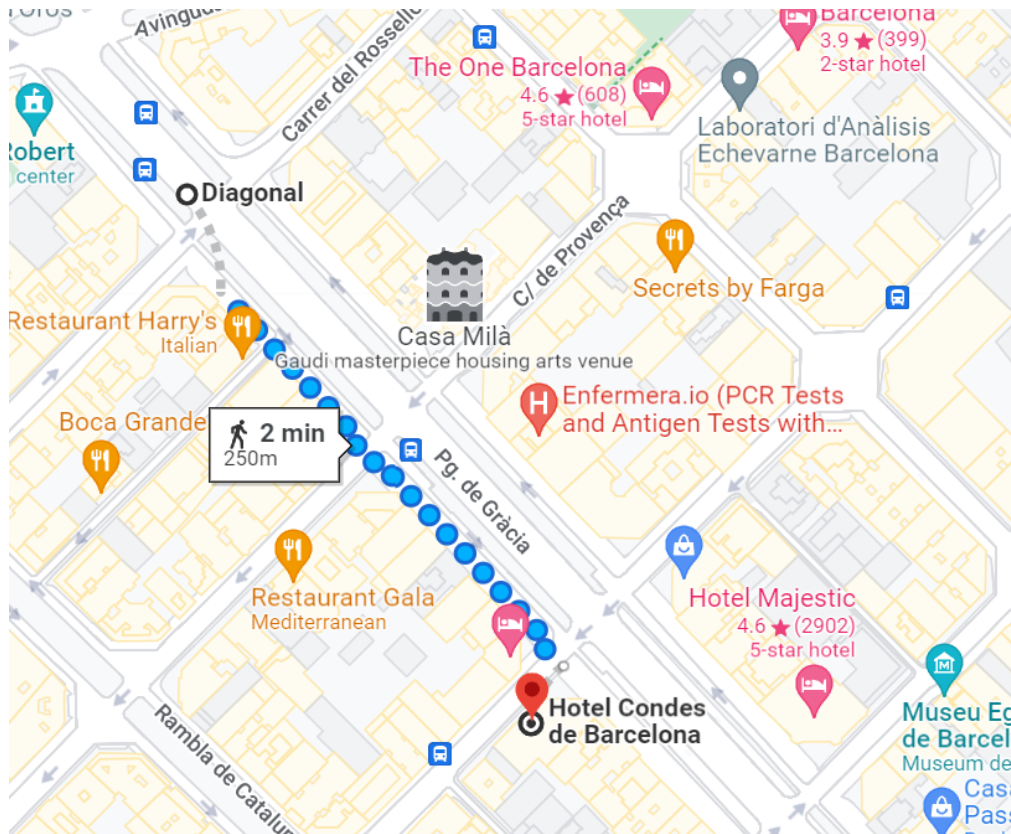
El Prat airport is 12 km from Barcelona. This route can be made by taxi, which will take around 23 minutes and cost around 35€ to 40€.

Train and underground

- From **Airport Terminal 2** a direct train line is R2N Saint Celoni. In around 27 minutes it will leave you in **Passeig de Gràcia**. Then in a 3 minutes' walk you will reach the hotel.
- From **El Prat de Llobregat** you can take the line R2S Barcelona-Estació de Franca 19 minutes until **Passeig de Gràcia**. Then in a 3 minutes' walk you will reach the hotel.



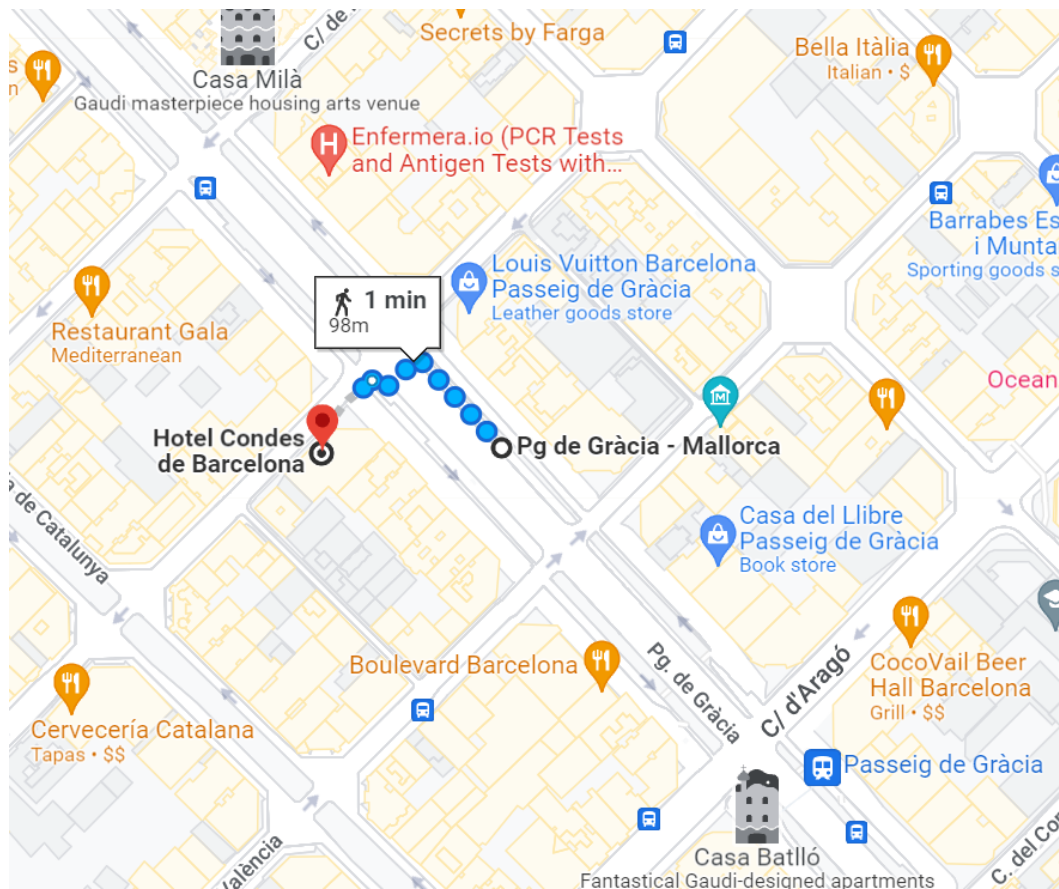
- Another option also from **Airport Terminal 2** is the line L9S Zona Universitaria until **Collblanc**. There switch to Line L5 Vall d'Hebron 6 stops until **Diagonal** and in a 4 minutes' walk you can reach the hotel.



If you purchase the T-10 card for 10 trips, you will be able to use it not only to get to the hotel, but also to move around Barcelona for the duration of your stay, as it allows you to utilise the different means of public transport in the city.

Bus from the airport

- From **Airport - Terminal B** you can use the line **A2** to **Pl. Catalunya Fontanella** and then two minutes' walk to **Ronda St Pere - Pg de Gràcia** where you can take line **22** or **24 El Carmel** to **Pg de Gràcia – Mallorca**. In 1 minute walk you will reach the hotel.
- From **Airport – Terminal 1** you can take the line **A1** to **Pl. Catalunya - Andana Central**. Then two minutes' walk to **Ronda St Pere - Pg de Gràcia** where you can take line **22** or **24 El Carmel** to **Pg de Gràcia – Mallorca**. In 1 minute walk you will reach the hotel.



Dinner location 31st of May – TBC