



**7<sup>th</sup>**  
**EUROPEAN CONFERENCE ON**

# **BRAIN STIMULATION IN MENTAL HEALTH**

**New Frontiers in Brain Stimulation Practice across the Lifespan**



- ↪ **Date:** 15-17 October 2026
- ↪ **Congress Venue:** Stazione Marittima, Molo Angioino, Napoli
- ↪ **Scientific Director:** **Giordano D'Urso**
- ↪ **Keynote speakers:** **Paolo Maria Rossini**
- Odile van den Heuvel**
- Sophie Fitzsimmons**
- Harold A. Sackheim**
- Marom Bikson**
- Nikita van der Vinne**

↪ **International Scientific Committee:**

Chris Baeken  
Anna-Katharine Brem  
Jerome Brunelin  
Lorena Chanes  
Weronika Dębowska  
Stefanie De Smet  
Igor Filipcic  
Marco Andre Hirnstein  
Debby Klooster  
Theodoros Koutsomitros  
Jacinta O'Shea  
Lais Razza  
Alexander Sack  
Sven Vanneste

↪ **Local Scientific Committee:**

Beatrice Benatti  
Roberta Ferrucci  
Giacomo Grassi  
Marco Manzo  
Alessandro Passeretti  
Federico Perrotta  
Mauro Pettoruso

↪ **Local Organizing Committee:**

Carmen Concerto  
Gianpiero Gallo  
Mario Luciano  
Mattia Pomes



**15 October 2026**

08.00-09.00 Registration

## **SALA GALATEA**

09.00-13.00 Pre-conference Course - Introduction to Non-Invasive Brain Stimulation (NIBS)

09:00-09:10 Welcome and introduction

**Chris Baeken**

09:10-09:30 The certification pathway of the European Society of Brain Stimulation (ESBS)

**Chris Baeken**

09:30-09:40 Q&A on ESBS certification

09:40-09:45 Short break

09:45-10:05 Transcranial Magnetic Stimulation (TMS) basics: what it is and how it works

**Lasse Christiansen**

10:05-10:25 Transcranial Electrical Stimulation (tES) basics: what it is and how it works

**Sofia Fernandes**

10:25-10:40 Overview of current clinical and research guidelines

**Albino Oliveira-Maia**

10:40-11:00 Safety and ethics in NIBS

**Weronika Debowska**

11:00-11:05 Short break

11:05-12:00 Hands-on session with TMS and tES selected devices



## **SALA GALATEA**

**13.30-14.00** ECBS Welcome Session (ECBS chair, ESBS president, authorities)

**14.00-14.50** Keynote speaker - **Paolo Maria Rossini**

Non-invasive brain stimulation methods: a window on physiological and pathological brain function

**14.50-15.00** Conferral of the ESBS Lifetime Achievement Award

## **SALA GALATEA**

**15.00-16.20** |

**S1 Non-invasive Brain Stimulation in Psychiatric Disorders**

Chairs: **Bernardo Dell'Osso, Alexander Sack**

**15.00-15.15** Transcranial Brain Stimulation in Depression: About Settings and Access to Treatment - **Frank Padberg**

**15.15-15.30** Non-invasive Brain Stimulation in Obsessive-Compulsive Disorder - **Beatrice Benatti**

**15.30-15.45** Non-invasive Brain Stimulation in Addiction: Clinical Perspectives and Future Directions - **Graziella Madeo**

**15.45-16.00** Psychedelics or Non-invasive Brain Stimulation in treatment-resistant psychiatric disorders? - **Giovanni Martinotti**

**16.00-16.20** Discussion

## **SALA DIONE**

**15.00-16.20** |

**S2 Non-invasive Brain Stimulation in the Pediatric Population**

Chairs: **Til Ole Bergmann, Yosuke Morishima**



- 15.00-15.15** Transcranial Electrical Stimulation in the Pediatric Population: Overview - **Vera Moliadze**
- 15.15-15.30** Optimizing rTMS for Adolescent Resistant Depression: Current Evidence and Emerging Protocols - **Belen Rubio**
- 15.30-15.45** Compensatory Mechanism of Theta Oscillations in Clinical High Risk for Psychosis - **Yosuke Morishima**
- 15.45-16.00** Biomarkers of Clinical Response to Transcranial Magnetic Stimulation - **Lukasz Smigielski**
- 16.00-16.20** Discussion

**16.20-16.40** Coffee break

## SALA GALATEA

**16.40-18.00** |

### S3 The neurobiology of electrical stimulation: from molecules to behavior

**Chairs:** Giordano D'Urso, Alberto Priori

- 16.40-16.55** Experimental evidence for electric field-induced destabilization of amyloid fibrils and alfa-synuclein in vitro: theoretical implications for direct current stimulation in Alzheimer's disease and Parkinson's disease - **Sara Marceglia**
- 16.55-17.10** The effects of electrical stimulation on molecular biomarkers in normal and pathological conditions: from in vitro to in vivo studies - **Paola Signorelli**
- 17.10-17.25** Direct Current Stimulation modulates gene expression related to human diseases in animal models - **Tommaso Bocci**
- 17.25-17.40** Neurobiological underpinnings of tDCS effects in bipolar disorder – **Marco Manzo**
- 17.40-18.00** Discussion



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## SALA DIONE

16.40-18.00 |

### S4 Network-Guided Brain Stimulation in Alzheimer's Disease: Toward Precision Neuromodulation

**Chairs:** Giacomo Koch, Willem de Haan

**16.40-16.55** Investigating mechanisms of memory improvement with 40Hz precuneus tACS and MEG in pre-dementia AD: the MEMENTO study - **Annel Koomen**

**16.55-17.10** Computational Modeling of Precuneus TMS: Optimizing Induced Electric Fields in the Presence of Alzheimer's-Related Atrophy - **Hidde Woerdman**

**17.10-17.25** TMS-EEG-fMRI Integration: Personalizing Non-Invasive Brain Stimulation and Mapping Causal Brain Dynamics - **Elias Casula**

**17.25-17.40** Cerebellar Rhythms and Precision Neuromodulation: Mechanisms and Translational Impact - **Danny Spampinato**

**17.40-18.00** **Discussion**

18.00-19.30 | **ESBS General Assembly**

20.30-23.00 | **ESBS members Dinner**

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CERTIFICATO NO. 102354Q



**16 October 2026**

08.00-08.30 Registration

## **SALA GALATEA**

08.30-09.30 **Sponsored workshop (SOZO)**

09.30-10.20 **Keynote speakers – Odile Van den Heuvel, Sophie Fitzsimmons**

From circuit dysfunction to personalized brain stimulation in obsessive-compulsive disorder

## **SALA GALATEA**

10.20-11.20 |

**S5 Non-Invasive Brain Stimulation: a bridge between Neurophysiology, Neuropsychology, and Neurochemistry**

**Chairs: Letizia Leocani/Luigi Trojano**

10.20-10.35 NIBS and Neurophysiology - **Simone Rossi**

10.35-10.50 NIBS and Neuropsychology - **Roberta Ferrucci**

10.50-11.05 NIBS and drugs - **Ulf Ziemann**

11.05-11.20 **Discussion**

## **SALA DIONE**

10.20-11.20 |

**S6 Optimizing theta-burst stimulation in obsessive-compulsive disorder: personalized targeting and oscillatory circuit engagement**

**Chairs: Mircea Polosan, Estelle Raffin**

10.20-10.35 Targeting OCD Circuits with TMS: From Pathophysiological Rationale to Personalized Stimulation - **Jean-Marie Batail**



- 10.35-10.50** Personalized Right Inferior Frontal Gyrus-targeted iTBS Treatment in OCD: Results of the MAGTOC Randomized Clinical Trial - **Sylvain Harquel**
- 10.50-11.05** Harnessing High-Gamma Theta-Burst Stimulation to Enhance TBS-Induced Plasticity - **Estelle Raffin**
- 11.05-11.20** **Discussion**
- 11.20-11.40** **Coffee break**

## SALA GALATEA

**11.40-13.00** |

### **S7 Advancements in Accelerated and Personalized Brain Stimulation: Integrating Clinical Efficacy, Personalized Target Engagement & Stability and TMS-EEG**

**Chairs: Eric van Exel, Philip van Eijndhoven**

- 11.40-11.55** Comparing The Clinical Efficacy of 5-day Multi Daily Neuronavigated iTBS vs. Standard rTMS in Treatment-Resistant Depression: Results from the Dutch Depression Outcome Trial – **Tom Biemans**
- 11.55-12.10** Prospective Validation of fMRI-Guided Targeting in Accelerated iTBS for Major Depressive Disorder: A Comparison With Standard Scalp-Based 10 Hz rTMS - **Coen Coomans**
- 12.10-12.25** Target stability and variability of personalized fMRI-guided TMS in a clinical trial for PTSD - **Sanne van Rooij**
- 12.25-12.40** Electrophysiological Correlates of Deep TMS effects in Major Depressive Disorder, and Clinical Outcomes of an Accelerated Deep TMS Protocol from a Recent Multisite Trial - **Abraham Zangen**
- 12.40-13.00** **Discussion**



## **SALA DIONE**

11.40-13.00 |

### **S8 | Optimizing Non-Invasive Brain Stimulation for Schizophrenia: Toward Personalized and Mechanism-Based Interventions**

**Chairs: Marine Mondino, Antonio Vita**

**11.40-11.55** Mapping symptom-general and symptom-specific targets for transcranial magnetic stimulation in schizophrenia: an electric-field modeling meta-analysis - **Indrit Bègue**

**11.55-12.10** tRNS for difficult to treat symptoms of schizophrenia. Results from a French multicentre RCT

**Jerôme Brunelin**

**12.10-12.25** Is tDCS effective for the negative symptoms of schizophrenia? A meta-analytic study of clinical moderators and stimulation parameters - **Raquel Guiomar**

**12.25-12.40** Beyond Symptom Reduction in Schizophrenia: tDCS Effects on Life Engagement and Cigarette Smoking as a Moderator of tDCS Outcomes on Negative and Cognitive Symptoms

**Jacopo Lisoni**

**12.40-13.00 Discussion**

**13.00-14.00 LUNCH/Networking /Poster Session 1**

## **SALA GALATEA**

**14.00-14.50 Keynote speaker - Harold Sackheim:**

92 years of seizure therapy: what have we learned and what is the future?



## **SALA GALATEA**

14.50-16.10 |

### **S9 Dosing Approaches Across Neuromodulation Techniques: Insights from TMS and ECT**

Chairs: **Chris Baeken, Julia Meijer**

- 14.50-15.05** General overview of dosing parameters across major neuromodulation techniques - **Julia Meijer**
- 15.05-15.20** Is It the Dose or the Schedule? Antidepressant Effects of Accelerated vs Daily iTBS - **Beatriz Cavendish**
- 15.20-15.35** From atlas to individual: estimating TMS dose with population-level electric field models - **Ole Numssen**
- 15.35-15.50** Less Is More? How higher-than-intended ECT dosing may reduce remission rates – **Eric van Exel**
- 15.50-16.10** **Discussion**

## **SALA DIONE**

14.50-16.10 |

### **S10 Targeting Brain Connectivity with Non-Invasive Brain Stimulation: From Mechanisms to Translation**

Chairs: **Tuba Aktürk, Jelena Trajkovic**

- 14.50-15.05** Flexible Fronto-Parietal Theta Communication: Frequency- and Phase-Specific tACS Effects on Episodic Memory - **Tuba Aktürk**
- 15.05-15.20** Personalized ccPAS Enhances Dorsal Attention Network Connectivity and Spatial Attention **Jelena Trajkovic**
- 15.20-15.35** State-Dependent Brain Stimulation: Insights from Hidden Markov Modeling of Network Dynamics - **Laura Marzetti**
- 15.35-15.50** Application of 40 Hz Gamma Entrainment Increases EEG Resting State Alpha Activity in Healthy Controls and Alzheimer's Disease Patients - **Bahar Güntekin**



**15.50-16.10 Discussion**

**16.10-16.30 Coffee break**

## **SALA GALATEA**

**16.30-17.30 |**

**S11 | Interventional Psychiatry for Depression Across the Lifespan: Challenges and Opportunities**

**Chairs:** Peter Giacobbe, Enoch Ng

**16.30-16.45 Youth and rTMS for Depression - Enoch Ng**

**16.45-17.00 Adverse Childhood Experiences and Interventional Psychiatry – Peter Giacobbe**

**17.00-17.15 Ultrabrief Pulse ECT in Adults and Older Adults - Declan McLoughlin**

**17.15-17.30 Discussion**

## **SALA DIONE**

**16.30-17.30 |**

**S12 Optimizing Brain Stimulation: Plasticity, Neural Circuits, and Metabolic Health as the emerging Therapeutic Triad for Improved Mental Health Outcomes**

**Chairs:** Sean Nestor, Maria Vasileiadi

**16.30-16.45 Brain circuit-based underpinnings of TMS therapeutic outcomes: new findings - Robin Cash**

**16.45-17.00 A Case for Considering Metabolic Health in Psychiatric TMS Outcomes- Maria Vasileiadi**

**17.00-17.15 Translating Synaptic Mechanisms of TMS into Novel Protocols and Effective Outcomes - Joshua Brown**

**17.15-17.30 Discussion**



## **SALA GALATEA**

17.30-18.30 |

### **S13 Invasive brain stimulation in Psychiatric Disorders**

Chairs: **Felice Esposito, Martijn Figuee**

**17.30-17.45** Deep Brain Stimulation in Depression - **Roel Mocking**

**17.45-18.00** Deep Brain Stimulation in Schizophrenia - **Nicola Cascella**

**18.00-18.15** Deep Brain Stimulation in Obsessive-Compulsive Disorder - **Martijn Figuee**

**18.15-18.30** **Discussion**

## **SALA DIONE**

17.30-18.30 | **Free communications session**

**17.30-17.40** kTMP: An Innovative, Comfortable Non-Invasive Brain Stimulation Method for Modulating Brain Activity and Its Clinical Applications – **Ludovica Labruna**

**17.40-17.50** ABIS-XR: A Multimodal Closed-Loop EEG–ECG Framework for Adaptive Neurostimulation in Virtual Reality – **Anna Letournel**

**17.50-18.00** White Matter Correlates of Repetitive Transcranial Magnetic Stimulation Combined with Exposure and Response Prevention Therapy in Obsessive-Compulsive Disorder – **Tjardo Postma**

**18.00-18.10** Intermittent tACS Differentially Modulates Working Memory and Neural Oscillations – **Haijing Huang**

**18.10-18.20** A Combined tDCS and Videogame Training Approach for Adult ADHD: An Exploratory Study – **Benedetta Cherbacich**

**18.20-18.30** Home-based neuromodulation for restoring sleep and circadian rhythms  
**Ksenija Maravic Da Silva**

**20.00-23.00 | Conference Social Dinner**



**17 October 2026**

08.00-08.30 Registration

## **SALA GALATEA**

08.30-09.30 |

**S14 Beyond the Acute Response: Rethinking rTMS Maintenance Strategies in Depression**

Chairs: **Anne Sauvaget, Jean-Marie Batail**

**08.30-08.45** Maintenance Protocols in rTMS: State of the Art and Perspectives from French Real-World Data (DS Natur Cohort) - **Noomane Bouaziz**

**08.45-09.00** rTMS and Brain Plasticity: Understanding the Biological Determinants of Clinical Stability - **Jean-Marie Batail**

**09.00-09.15** Maintaining Remission After ECT: What Role for rTMS? - **Maud Rotharmel**

**09.15-09.30** Discussion

## **SALA DIONE**

08.30-09.30 |

**S15 State-dependent Modulation of Non-Invasive Brain Stimulation: From Mechanisms to Clinical Applications**

Chairs: **Iris Dalhuisen**

**08.30-08.45** Modulation of TMS-Induced Neuroplasticity by D-Serine Supplementation - **Thomas van der Velde**

**08.45-09.00** State-dependent neuromodulation: bridging experimental insights and clinical applications - **Stefanie De Smet**

**09.00-09.15** Enhancing effect of cognitive interventions on non-invasive brain stimulation for depression and depressive symptoms: A systematic review - **Marloes Wurkum**

**09.15-09.30** Discussion



## **SALA GALATEA**

**09.30-10.20 Keynote speaker - Marom Bikson**

From electric fields to intelligent neuromodulation

## **SALA GALATEA**

**10.20-11.20 Brain Stimulation regulation roundtable**

## **SALA DIONE**

**10.20-11.20|**

**S16 Personalizing rTMS in Depression through the Fronto-Vagal Network: Heart-Brain Coupling, Clinical Target Engagement, and Inflammation**

Chairs: **Soili M. Lehto, Roberto Goya-Maldonado**

**10.20-10.35** Beyond Beam-F3: A Grid-Based Frontal Mapping Approach using Heart-Brain Coupling to Guide Personalised rTMS in Depression - **Jessica Jacobs**

**10.35-10.50** Heart-Brain Coupling as a Target Engagement Biomarker for Personalized rTMS: A Lifespan Normative Modelling Perspective - **Martijn Arns**

**10.50-11.05** Frontovagal Circuit Engagement under Inflammation as a Determinant of rTMS Clinical Effects in Depression - **Bruno Pedraz-Petrozzi**

**11.05-11.20 Discussion**

**11.20-11.40 Coffee break**



## **SALA GALATEA**

11.40-13.00|

### **S17 Emerging Technologies for Individualized Biomarkers and Adaptive Treatments in Mental Health**

Chairs: **Juha Gogulski, Pantelis Lioumis**

**11.40-11.55** TMS-EEG biomarkers of brain circuits in health and depression - **Pantelis Lioumis**

**11.55-12.10** Automated strategies for individualized TMS targeting - **Ida Granö**

**12.10-12.25** Automated stimulation and enhanced biomarkers with multi-locus TMS - **Risto Ilmoniemi**

**12.25-12.40** Future perspectives of biomarker-guided rTMS interventions - **Juha Gogulski**

**12.40-13.00** **Discussion**

## **SALA DIONE**

11.40-13.00|

### **S18 Brain-State Dependent Modulation of Motor Cortex Excitability**

Chairs: **Marten Nuyts, Sybren Van Hoornweder**

**11.40-11.55** The Functional Significance of the Sensorimotor Rhythm in Modulating Cortical Response to Perturbation - **Leo Tomasevic**

**11.55-12.10** Does prestimulus alpha oscillation predict the immediate TMS-EEG response? – **Marta Bortoletto**

**12.10-12.25** Sensorimotor Beta States Shape Cortical Responses to Stimulation During Movement - **Marten Nuyts**

**12.25-12.40** Beta oscillations in motor control: from mechanisms to modulation - **Sybren Van Hoornweder**

**12.40-13.00** **Discussion**



13.00-14.00 LUNCH/Networking /Poster Session 2

## SALA GALATEA

14.00-14.50 Keynote speaker - Nikita van der Vinne

The next generation of personalized brain stimulation

## SALA GALATEA

14.50-16.10 |

**S19 Mapping the Active Brain: From Circuit Mechanisms to Clinical Applications**

Chairs: **Elisa Kallioniemi, Martin Tik**

14.50-15.05 Approaches for cognitive mapping: from correlational to causal and predictive viewpoints on the road to neuropsychiatric applications - **Anna-Lisa Schuler**

15.05-15.20 Real-time causal mapping of pain circuitry with TMS-EEG: Implications for neuropsychiatric disorders - **Elisa Kallioniemi**

15.20-15.35 What we can learn from invasive assessment of excitability and its relevance for neuropsychiatric conditions - **Giovanni Pellegrino**

15.35-15.50 Real-time neurochemical mapping for TMS depression treatment: A new interleaved TMS-MRS framework - **Maria Vasileiadi**

15.50-16.10 Discussion

## SALA DIONE

14.50-16.10 |

**S20 Non-Invasive Brain Stimulation for Borderline Personality Disorder: From Neurobiology to Personalized Treatment Strategies**

Chairs: **Jacopo Lisoni, Emmanuel Poulet**



- 14.50-15.05** Effects of tDCS over the rVLPFC on hypersensitivity to rejection in borderline personality disorder - **Chiara De Panfilis**
- 15.05-15.20** Effectiveness of bipolar-balanced prefrontal tDCS in patients with borderline personality disorder: Results from a randomized, double-blind, sham-controlled trial – **Jacopo Lisoni**
- 15.20-15.35** Enhanced tDCS Protocols Targeting the Left Dorsolateral Prefrontal Cortex (IDLDFC): Pilot Clinical Outcomes - **Lionel Cailhol**
- 15.35-15.50** Modulating inhibitory control network in borderline personality disorder using cortico-cortical paired associative stimulation - **Cecilia Neige**
- 15.50-16.10** **Discussion**
- 16.10-16.30** **Coffee break**

## **SALA GALATEA**

- 16.30-17.30** **Career development roundtable**

## **SALA DIONE**

**16.30-17.50**

### **S21 Advancing Non-Invasive Brain Stimulation for Bipolar Disorder: Mechanisms, Targets, and Clinical Evidence**

Chairs: - **Eva Oostra, Eric van Exel**

- 16.30-16.45** TMS-EEG in people with Bipolar Depression - a comparison with healthy controls - **Wianne Schipper**
- 16.45-17.00** aiTBS for Bipolar Depression - a systematic review and protocol - **Urmi Pahladsingh**
- 17.00-17.15** First results of a Dutch multicenter sham-controlled rTMS trial for Treatment Resistant Bipolar Depression - **Eva Oostra**



- 17.15-17.30** Targeting Reward Circuits in Affective Psychosis: Personalized Beta-Gamma HD-tES of the Right Orbitofrontal Cortex - **Paulo Lizano**
- 17.30-17.50** **Discussion**

## **SALA GALATEA**

- 17.30-18.30** **Free Communications Session**
- 17.30-17.40** Polarity-Dependent Modulation of Memory Consolidation by Closed-Loop Acoustic Stimulation During Slow-Wave Sleep – **Lisa Marshall**
- 17.40-17.50** D-Cycloserine Augmentation of Intermittent Theta Burst Stimulation (iTBS) in Depression (COGENT): A Multi-Site, Randomised, Placebo-Controlled Trial – **Leo Chen**
- 17.50-18.00** NIBSdose.ai: A population-level dosing atlas for TMS – **Ole Numssen**
- 18.00-18.10** Electrophysiological Correlates in the Motor and Prefrontal Cortices for Inattention and Hyperactivity Symptoms in Attention Deficit/Hyperactivity Disorder – **Rachel Ozeri**
- 18.10-18.20** Superficial white matter microstructural changes after accelerated intermittent theta burst stimulation treatment is related to anhedonia improvement in treatment-resistant depression – **Yichen Zhang**
- 18.20-18.30** Lost in Translation: Closing the Loop Between Computational Models and Clinical-Experimental NIBS - **Axel Thielscher**

## **SALA DIONE**

- 17.50-18.30** **ESBS guidelines**

## **SALA GALATEA**

- 18.30-19.00** **POSTER AWARDS and CONFERENCE CLOSING (ESBS President)**