5th European Conference of Brain Stimulation in Psychiatry
TMS in Clinical Practice - What Works and What Fails?
5th European Conference of Brain Stimulation in Psychiatry

TMS in Clinical Practice - What Works and What Fails?

FINAL PROGRAM

June 2-4, 2022
University Psychiatric Hospital Sveti Ivan, Zagreb

www.brain-stimulation2022.com
GENERAL INFORMATIONS

Congress Venue:

University Psychiatric Hospital Sveti Ivan
Jankomir 11
10090 Zagreb
Croatia

Dates:

June 2-4, 2022

Official language:

Official language of the Conference is English. Simultaneous translation will not be provided

Technical Organizer:

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FRIDAY, JUNE 3, 2022

08.50 – 09.00 OPENING CEREMONY

09.00 – 10.15 HALL 1 SYMPOSIUM DEEP –TMS IN CLINICAL PRACTICE: NEW INSIGHTS

CHAIRS
Igor Filipčić & Abraham Zangen

ABRAHAM ZANGEN, URI ALYAGON, ARON TENDLER, MARK GEORGE, Jerusalem, Israel
Should lateral or Medial prefrontal stimulation be used to treat MDD?

MAAYAN HAREL & MARKUS HEILIG, Linköping, Sweden
Deep TMS in Alcohol Dependence: A Randomized, Double-Blind, Sham-Controlled Proof-of-Concept Trial with Brain Imaging

ENA IVEZIĆ & IVANA BAHUN, Zagreb, Croatia
Effects of deep and r-TMS on neurocognitive functioning in MDD patients

IGOR FILIPČIĆ & IVONA ŠIMUNOVIĆ FILIPČIĆ, Zagreb, Croatia
Negative symptoms in SCH patients treated with Deep-TMS, H7 coil

10.15 – 10.30 Q&A

10.30 – 11.15 KEYNOTE SPEAKER

ALBINO OLIVEIRA-MAIA, Lisbon, Portugal
rTMS for old-age depression

11.15 – 11.45 COFFEE BREAK

11.45 – 13.00 HALL 1 SYMPOSIUM LIMITING AND OPTIMISABLE CONDITIONS IN RTMS OF DEPRESSION AND OTHER MENTAL DISEASES

CHAIRS
Jerome Brunelin & Virginie Moulier

ABDULLAH ALHELALI, Regensburg, Germany
Influence of TMS, clinical and demographic parameters on the efficacy of rTMS in depression

MAUD ROTHÄRMEL, Rouen, France
Deep rTMS: a new option in mental diseases?

CHRIS BAEKEN, Ghent, Belgium
Brain perfusion patterns as clinical (non) predictor to aiTBS treatment in medication-resistant depression

VIRGINIE MOULIER, Sotteville-lès-Rouen, France
Clinical, cognitive and neurophysiological effects of the combination of neurostimulation techniques in patients with mental disorders
14.30 – 15.45  HALL 1  SYMPOSIUM
BEYOND CLINICAL SYNDROMES: UNDERSTANDING MECHANISMS OF NEUROMODULATION FORM A DIMENSIONAL PERSPECTIVE

CHAIRS
Joan A. Camprodon & Marta Cano

ELLARD KRISTEN, Boston, USA
Changes in Emotion Regulation following Transcranial Magnetic Stimulation (TMS) and the Relationship to Treatment Response in Major Depressive Disorder

BARBOUR TRACY, Boston, USA
Differential Effects of Rtms and Ect on the Symptom Dimensions of Reward and approach/avoidance in Major Depressive Disorder

WARD BENJAMIN, Los Angeles, USA
Improving Antidepressant Response Prediction Using Dimensional outcomes: Convergent Evidence from ECT and Ketamine Treatments

DENG ZHI, Bethesda, USA
Depressive Symptom Dimensions and Response Trajectories in Electroconvulsive Therapy and Magnetic Seizure Therapy

14.30 – 15.45  HALL 2  SYMPOSIUM
CEREBELLAR NON-INVASIVE BRAIN STIMULATION IN PSYCHIATRIC DISORDERS

CHAIRS
Andrea Antal & Giordano D’Urso

RAFFAEL DUBBIO, Napoli, Italy
TMS studies of the cerebellar-brain inhibition and neuropsychiatric disorders

GIORDANO D’URSO, Napoli, Italy
Cerebellar tDCS in depression

RAQUEL GUIOMAR, Coimbra, Portugal
Cerebellar tDCS in schizophrenia

ELENA TOSCANO, Napoli, Italy
Cerebellar tDCS in autism spectrum disorder
FRIDAY, JUNE 3, 2022

16.00 – 17.15  HALL 1

SYMPOSIUM
MODULATION OF BRAIN-BODY INTERACTIONS USING NON-INVASIVE BRAIN STIMULATION

CHAIRS
Stefanie De Smet & Marie-Anne Vanderhasselt

MARIE-ANNE VANDERHASSELT, Ghent, Belgium
Combining electrical stimulation and lifestyle interventions targeting the vagus nerve to increase resilience systematic review and meta-analysis

MAXIMILIAN SCHMAUSSER, London, United Kingdom
The Effects of Noninvasive Brain Stimulation on Heart Rate and Heart Rate Variability: a systematic review and meta-analysis

STEFANIE DE SMET, Leiden, Netherland
Effects of transcutaneous auricular vagus nerve stimulation (taVNS) on autonomic and cognitive rigidity during perseverative cognition

GIUSEPPE SALVO, London, United Kingdom
Reducing disgust and moral rigidity through transcranial direct current stimulation (tDCS): Clinical implications for obsessive-compulsive disorder

16.00 – 17.15  HALL 2

FREE COMMUNICATION

17.15 – 17.30  Q&A

CHAIRS
Jacinta O Shea & Fady Rachid

SARA DE WITTE, Ghent, Belgium
Double-dosed non-invasive brain stimulation: is more better?

YOUSSEF HUSSEIN, Egypt
Brain Derived Neurotrophic Factor Negatively Responded to Transcranial Direct Current Stimulation: Randomized Controlled Trial

RAFFAELE DUBBİOSO, Napoli, Italy
Cerebellar-thalamo-cortical circuitry in Obsessive- Compulsive Disorder: a neurophysiological study protocol

ATTALİ DAVID, Paris, France
A 20-Year Journey in Transcranial Ultrasound Stimulation – Lessons Learned

RAQUEL GUIOMAR, Coimbra, Portugal
Combining app-based psychological intervention with home-based Transcranial Direct Stimulation for the treatment of depressive and anxiety symptoms: A Case Series

RADYTİ ĖMİLİ, Oxford, UK
Modelling Non-Invasive Brain Stimulation of Deep Brain Structures for Psychiatric Applications
FRIDAY, JUNE 3, 2022

17.30 – 18.30 HALL 1

**POSTER SESSION**

CHAIRS
Andrea Antal & Martijn Arns & Jacinta O Shea

19.00 – 22.00

DINNER

SATURDAY, JUNE 4, 2022

08.30 – 09.45 HALL 1

**SYMPOSIUM**

INNOVATIVE APPLICATIONS OF BRAIN STIMULATION IN PSYCHIATRY: NEW TECHNOLOGY TO INCREASE TREATMENT EFFICACY

CHAIRS
Hanneke Van Dijk & Giordano D’Urso

TOMMASO BOCI, ALBERTO PRIORI, Milano, Italy
Adaptive closed-loop Deep Brain Stimulation in Psychiatry

LAIS B. RAZZA, Sao Paulo, Brasil
Combining iTBS and tDCS over the prefrontal cortex: results from a phase-I trial

LEO CHEN, Australia
Innovative applications of brain stimulation in psychiatry

SAMUEL BULTEAU, Nantes, France
tDCS+Virtual Reality in fear of heights and rumination

09.45 – 10.00

Q&A

08.30 – 09.45 HALL 2

**SYMPOSIUM**

UNDERSTANDING CIRCUIT MECHANISMS OF ELECTROCONVULSIVE THERAPY USING MULTIMODAL MRI

CHAIRS
Joan A. Camprodon & Tracy Barbour

BENJAMIN WADE, Los Angeles, USA
Differential Changes in Resting-state Functional Connectivity Imparted by Rapidly-acting Antidepressant Treatments

CARLES SORIANO-MAS, Barcelona, Spain
Structural covariance between the hippocampus and the insula is associated to ECT response in patients with depression

MARTA CANO, Barcelona, Spain
Mechanisms of electroconvulsive therapy (ECT) on anti-suicidal response: a GEMRIC mega-analysis

JOAN A. CAMPRODON, Boston, USA
Suicide circuit therapeutics: leveraging the efficacy of ECT and the focality of TMS

09.45 – 10.00

Q&A
SATURDAY, JUNE 4, 2022

10.00 – 10.45  KEYNOTE SPEAKER

NOLAN WILLIAMS, Stanford, USA
Stanford Accelerated Intelligent Neuromodulation Therapy

10.45 – 11.15  COFFEE BREAK

11.15 – 12.30  SYMPOSIUM

POTENTIAL OF ELECTRIC FIELD SIMULATIONS IN CLINICAL PRACTICE

CHAIRS
Chris Baeken & Tik Martin

PUONTI OULA, Copenhagen, Denmark
Introduction to electric field modeling: how, why, and what is still missing?

DEBORAH KLOOSTER, Eindhoven, Netherlands
Do electric field simulations have added value for determining TMS coil positions at the scalp for optimal targeting?

MILES WISCHNEWSKI, Minneapolis, USA
Meta-analytic electric field modeling

VASILEIADI MARIA, Vienna, Austria
High-precision language mapping through multimodal fMRI, TMS and E-field modelling

12.30 – 12.45  Q&A

12.45 – 14.00  SYMPOSIUM

PRECISION-TMS IN DEPRESSION: FMRI, EEG AND CARDIAC BIOMARKERS

CHAIRS
Martijn Arns & Jonathan Downar

SHAN SIDDQUI, Boston, USA
Circuit-targeted TMS across symptoms and disorders

HELENA VOETTERL, Maastricht, Netherlands
Facilitating rTMS treatment stratification with Brainmarker 1: A transdiagnostic EEG stratification biomarker

EVA DIJKSTRA, Amsterdam, Netherlands
rTMS induced Brain-Heart Coupling: Implications for site selection and frontal thresholding?

JONATHAN DOWNAR, Toronto, Canada
Improving clinical outcomes and treatment accessibility for rTMS in depression

14.00 – 14.15  Q&A

14.15 – 15.15  LUNCH BREAK/POSTER SESSION
**SATURDAY, JUNE 4, 2022**

15.15 – 16.00  
**KEYNOTE SPEAKER**

**ANDREA ANTAL**, Gottingen, Germany  
Transcranial electric stimulation in the clinical practice – what works and why?

**16.00 – 17.15**  
**HALL 1**  
**SYMPOSIUM**  
**NEW TOOLS TO MONITOR AND OPTIMIZE TMS TARGET ENGAGEMENT**

**CHAIRS**  
Windischberger Christian & Deborah Klooster

**TIK MARTIN**, Stanford, USA  
Interslice iTBS/fMRI: Continuous imaging of therapeutic transcranial brain stimulation

**JANSSENS SHANICE**, Maastricht, Netherlands  
Simultaneous TMS-EEG-fMRI to study the propagation of TMS throughout the brain

**VAN DIJK HANNEKE**, Nijmegen, Netherlands  
Transfer (Deep) Learning based on the raw EEG; Classifying subtypes remitting to various brain-stimulation treatments in MDD

**VINK JORD**, Utrecht, Netherlands  
Elucidating propagation patterns of rTMS treatment in depression

**17.15 – 17.30**  
**Q&A**

**16.00 – 17.15**  
**HALL 2**  
**FREE COMMUNICATION**

**CHAIRS**  
Katy Brem & Martijn Arns

**LUECKEL MAXIMILIAN**, Mainz, Germany  
Functional connectivity- and E-field-optimized TMS targeting: A pilot TMS-fMRI validation at the single-subject level

**MARIA VASILEIADI**, Vienna, Austria  
Emotion processing task as a new strategy for locating individualized TMS targets

**MARCO HIRNSTEIN**, Bergen, Norway  
No Evidence for Changes in Prefrontal and Temporo-Parietal Areas by tDCS Treatment of Auditory Hallucinations

**CHRISTOPHE DAUDET**, Anglet, France  
Accelerated iTBS rTMS protocol in a clinical routine setting: one year experience

**MARINE MONDINO**, Lyon, France  
A case series exploring the effects of high-frequency transcranial random noise stimulation in patients with schizophrenia

**YUKI MIZUTANI-TIEBELAB**, Munich, Germany  
Concurrent TMS-fMRI – systematic review of methodological differences and sources of bias
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