

# 10<sup>th</sup> MindBrainBody Symposium Poster Overview

## Poster Session A

March 14 at 19:00-19:45 | Virtual March 17 at 10:30-11:30

Poster #	Presenter (s)	Poster Title
A01	Andrea Hiott	A hippocampal case for Waymaking: reframing memory and navigation alleviates traditional mind/body dichotomies
A02	Cyril Costines	Exploring Altered States of Consciousness: A Pilot Study of Phenomenomics Using Citizen Science
A03	Aleksandra Piejka	Social cognitive and parasympathetic correlates of loneliness in everyday life
A04	Alireza & Vanessa Nia & Vanessa Tang	Practical considerations in deploying hybrid fNIRS-EEG system on frontal lobe: An emotion recognition case study
A06	Anika Theresa Löwe	Neural networks mimic human insight
A07	Valerio Placidi	You don't deserve my honesty! The way individuals obtain their social status influences moral behaviour towards them
A08	Maria Azanova	Heart-brain interactions in feedback processing? Consider pseudotrials first
A09	Markus Tünte	The Relationship between Automatic Imitation, Interoception, and Coupling with the Cardiac Cycle
A10	Till Nikolaus von Heiseler	Punishment is neither sufficient to secure existing social order nor to explain the evolution of human cooperativeness
A11	Jonas Weisser & H.D. Lee & J. Zegger	Solving the Adaptive Valley Problem of Cultural Group Selection
A12	Paula Salamone	Feeling yourself when your self is altered in Schizophrenia
A13	Michael Aristodemou	Working memory fluctuations across multiple timescales
A14	Mahdiehsadat Mirmohammad	Exploring Neural Networks in Emotional Processing and Cognitive Control in Mood Disorders: An EEG Study of the Default Mode and Frontoparietal Networks
A15	Mathis Lamarre	Attention weights accurately predict language representations in the brain
A16	Valeria Becattini	Emotional Body Maps of Self-Detachment in Depersonalisation and Meditation
A17	Jellina Prinsen	Cardiac autonomic imbalance is manifested across the brain-heart axis in children with ASD: Insights from effective connectivity modelling
A18	Angeliki Charalampaki	Metacognition of agency: an EEG study
A19	Tal Geffen	Functional connectivity gradients and thought-patterns in schizophrenia - negative symptoms
A20	Hendrik-Jan De Vuyst & Javier Soriano	Development of a novel EEG-based neurofeedback protocol based on alpha-theta cross-frequency interactions in the context of stress regulation: A protocol presentation
A21	Julia Folz	Feeling your emotions in my body? The role of interoception and facial mimicry in emotion processing
A22	Alkistis Saramandi	Can I Feel my Heartbeat and Hunger? An Exploration of Interoceptive Belief Updating in Anorexia Nervosa
A23	Reinoud Kaldewaij	The backbone of the self? Differential spinal cord activity during self-other-object touch
A24	Magdalena Sabat	What is arousal? - An automated analysis of a corpus of 48.000 scientific articles and neuroimaging meta-analysis
A25	Norman Forschack	Attentional capture is modulated by stimulus saliency in visual search as evidenced by event-related potentials and alpha oscillations
A26	Antonin Fourcade & Francesca Malandrone	Minimally invasive and continuous rating of affective experience in immersive Virtual Reality
A27	Felix Klotzsche & Ammara Nasim	Stereoscopic vision and emotional face processing: insights from a combined EEG and virtual reality study

## Poster Session B

March 14, 2023 at 19:45-20:30 | Virtual March 17, 2023 at 11:30-12:30

Poster #	Presenter (s)	Poster Title
B01	Angelika Bracher	Peer-Cooperation and Cardiophysiological Correlates in Youth with Maltreatment Experience
B02	Katharina Kühne	The SNARC effect relies on an allocentric frame of reference
B03	Fabian Kiepe	Self-Initiation Enhances Perceptual Processing of Auditory Stimuli in an Online Experiment
B04	Marina Bobou	Interventions for interoception in mental health disorders: A systematic review of randomised-controlled trials
B05	Julia Schaefer	Reactivation of Sequential Head Direction Memory Traces in Humans
B06	Agata Patyczek & Elias Reinwarth	Linking macroscale resting-state functional connectivity to acute and chronic stress
B07	Merve Kutlu	Identifying sequential memory reactivation during sleep in humans
B08	Gesche Vigh	Perception and Report of Visuomotor Delay Changes in a Virtual Reality Setting
B09	Nils Kraus	Affective States and Traits and Their Influence on Perceptual Stability During Binocular Rivalry
B10	Lisa-Marie G Pohle	Expectation effects on repetition suppression in nociception
B11	Marta Gerosa	Cognitive reappraisal of food craving and emotions: a coordinate-based meta-analysis of fMRI studies
B12	Kristin Kaduk	Non-invasive vagus nerve stimulation decreases high-frequency heart rate variability after a caloric load
B13	Richard Somervail	Phenomenology and functional significance of the Vertex Potential
B14	Guido Caccialupi	Parametric Working Memory Coding during Motor Preparation
B15	Aishwarya Bhonsle	Decrease in perceptual suppression correlates with increased heart rate
B16	Alice Dabbagh	Reliability of task-based fMRI in the dorsal horn of the human spinal cord
B17	Clara Schüler	Connectome Based Predictive Modeling of Joint Attention in Infancy
B18	Miro Grundei	A multimodal cortical network of sensory expectation violations revealed by fMRI
B19	Alexandra John	Thalamocortical structural connectivity and microstructural covariance
B20	Zoya Mooraj	Metamemory in Younger and Older Adults: Neurocognitive Processes Underlying Age Differences in Confidence Computation
B21	Anne Aerts	Trust is not needed for language evolution to begin
B22	Maik Mylius	Meditation and Body Awareness: Lower prestimulus alpha activity in meditators modulates response bias in somatosensory signal detection task
B23	Christopher Gundlach	Global attentional selection of visual features is not mirrored in a selective modulation of posterior alpha-band activity
B24	Tal Nahari	Can you control you gaze? The strong effect of familiarity on eye gaze behavior
B25	Sara Wesolek	Content representation of tactile mental imagery in primary somatosensory cortex
B26	Carina Forster	Neural correlates of stimulus expectations in somatosensory perceptual decision making
B27	Tim Paul Steinfath	Pre-Stimulus Heartbeat Evoked Potentials predict P300 and reaction time in an auditory Oddball Task: real effect or artifact?
B28	Irena Arslanova	The heart as a subjective pacemaker: how experienced time expands and contracts within each heartbeat

## Poster Session C

March 15, 2023 at 15:40-16:25 | Virtual March 17, 2023 at 13:30-14:30

Poster #	Presenter (s)	Poster Title
C01	Jonas Jänig	Tracking Depth-Selective Visual Attention using SSVEP
C02	Tilman Stephani	Cortical excitability shapes somatosensory perception with spatiotemporally structured Dynamics
C03	Sarah Wellan	Neural correlates of anhedonia during pleasant touch
A05	Jessica Gemignani	The reproducibility of infant fNIRS studies: a meta-analytic approach
C05	Pawel Motyka	Investigating the effects of cardiac activity on perceived distance to threatening objects in VR
C06	Jona Förster	EEG correlates of conscious somatosensory perception in a tactile temporal discrimination task
C07	Cecilia Vezzani	Effects of transcutaneous vagus nerve stimulation on gastric rhythm during caloric load
C08	Gajos Katarzyna & Monika Malon	Is loneliness linked to prosociality? A meta-analysis of 36 studies with 43,508 participants
C09	Adrienn Réka Németh	Studying the connection between spatial navigation and mentalization in children by using virtual reality
C10	Felix Quirnbach	Neuronal correlates of visuomotor expectation generation and violation in a virtual reality based hand movement task
C11	Thorge Haupt	Onset tracking of neural activity, a step towards understanding the brain beyond the lab
C12	Gabriel Hassan	Reactivity changes in the occipital cortex of blind subjects revealed by the combination of transcranial magnetic stimulation and electroencephalography
C13	Gianluca Gaglioti	Investigating the impact of cortical lesions on brain complexity in silico
C14	Mikołaj Szulczewski	Transcutaneous auricular Vagus Nerve Stimulation (taVNS) combined with slow breathing as an intervention for people with experience of war and symptoms of PTSD - rationale and the study design
C15	Clara Isakowitsch	How Augmented Reality Beauty Filters Can Affect Self-perception
C16	Ioanan Amaya	Altered thalamocortical connectivity induced by flicker light stimulation
C17	Tomasz Michalik	How culture shapes the mind? Eye tracking study on perception of medieval Nubian paintings by Sudanese and Western people
C18	Marek Nemecek	Bringing the colour constancy illusion to the fMRI scanner
C19	Javier de Echegaray	The role of semantic and emotional content in visual cortex processing
C20	Tiina Parviainen	Dynamic Variation of IAPF is Linked With Interoceptive Sensitivity and Approach Motivation
C21	Barbora Wolf	Is confidence a form of internal reward? A Pavlovian conditioning study
C22	Alexandrina Vasilichi	Affective expectations are modulated by the interplay between visceral signals and uncertainty of the sensory environment
C23	Nikolai Kapralov	Multiverse Analysis of Longitudinal Changes in Sensorimotor Functional Connectivity during Brain-Computer Interface Training
C24	Anastasia Asmolova	Multi-muscle TMS mapping investigation of motor cortex reorganization during finger individuation training
C25	Alina Studenova	On the relevance of alpha-rhythm modulation to the generation of readiness potential
C26	Josefin Röbbing	Habitual emotion regulation is represented in functional connectivity of cortico-limbic networks in healthy younger and older adults
C27	Xiuhui Chen	Altered Resting-state Functional Connectivity in Central Post Stroke Pain
C28	Carolina Villegas Martinez	Development and Validation of the Parental Interoception Questionnaire (PIQ)

## Poster Session D

March 15, 2023 at 16:25-17:10 | Virtual March 17, 2023 at 14:30-15:30

Poster #	Presenter (s)	Poster Title
D01	Anna-Thekla Jäger	Decreased Self-Similarity of the rsfMRI BOLD Signal reflects Motor Sequence Learning Up to Two Weeks following Training
D02	Anna Fischer	Emotion regulation choice and flexibility in daily life
D03	Malthe Brændholt	The respiratory cycle modulates cross-modal decision computations
D04	Sandra Stojić	Intentional Binding Paradigm in a Social Context
D05	Nadine Herzog	Taq1A polymorphism is associated with worse working memory updating in high-BMI individuals
D06	Renzo Comolatti	Transcranial vs intracranial stimulation: similarities and differences explored by hd-EEG recordings
D07	Fabian Renz	Representation learning facilitates different levels of generalization
D08	Yonghao Chen	Real or fake? Decoding realness levels of stylized face images with EEG
D09	Thomas Schreiner	Respiration shapes sleep-oscillations and memory reactivation in humans
D10	Xiongbo Wu	Investigating the interaction between microsaccades and electrophysiology to understand their joint impact on visual perception in humans
D11	Laura Kaltwasser	The self in face identity processing with fast periodic visual stimulation
D12	Andrey Zhdanov, Ilya Zakharov, Andrey Zhdanov & Pshonkovskaya Polina	Brain sex prediction from EEG data using tree-based algorithms
D13	Genji Kawakita	Is my "red" your "red"?: Unsupervised alignment of qualia structures via optimal transport
D14	Yulia Revina	Expectations about pain location do not improve pain discrimination performance
D15	Suvi Karjalainen	Neural activity is modulated by spontaneous and volitionally controlled breathing
D16	Marko Dimitrovski	Heart evoked responses in the anterior cingulate can explain the effects of trait anxiety on decision-making under uncertainty
D17	Olgierd Borowiecki	Operationalization of planning based on Tower Tasks applied to clinical population – a meta-analysis.
D18	Delia Della Porta	Top-down attentional modulation does not affect the development of secondary hyperalgesia: an experimental investigation.
D19	Aoife Fitzpatrick	Investigating the role of peripersonal space representation in contact-related action across human and non-human primates
D20	Hannah Dalnim Lee & Jonas Weisser	Solving the Adaptive Valley Problem of Cultural Group Selection
D21	Venkatesh Subramani	Structure-Function decoupling of electrophysiological brain activity during video-watching
D22	Corinna Schulz	Ghrelin amplifies hedonic drive and food reward signaling in binge eating disorder
D24	Giulio Gabrieli	Recordings of SEPs from spinal regions: a systematic review
D25	Sarah Meissner	Through the eye to the brain: Modulating arousal via pupil-based neurofeedback
D26	Lioba Enk	Impact of nasal breathing on somatosensory detection: experimental design and pilot results
D27	Marta Gerosa	The influence of cardiorespiratory phase locking and heart-brain interactions on the sense of agency – a project idea
D28	David López Martos	Linguistic selection alteration in Huntington's Disease: ecological oral language production reveals evidence through lexical diversity algorithms

## Virtual Posters Only

Poster #	Presenter (s)	Poster Title
Virtual Poster Session A		March 17, 2023 at 10:30-11:30
V01	<b>Karen Simonyan</b>	Positive effects of Teucrium polium on rat brain cholinergic network deficits caused by amyloid $\beta$
V02	<b>Friederike Charlotte Hechler</b>	Phonetic Accommodation in Autism
V03	<b>Rory Bufacchi</b>	Egocentric value maps of the near-body environment: from Reinforcement Learning to neural responses
V04	<b>Jessica L. Hazelton</b>	Investigating interoception and emotion in left- vs right-predominant anterior temporal lobe degeneration
V05	<b>Ruijie Li</b>	Holistic Bursting Cells Store Long-term Memory in Auditory Cortex
V06	<b>Kirti Saluja</b>	Age associated reduction in cortical representation of cardiac signals
Virtual Poster Session B		March 17, 2023 at 11:30-12:30
V07	<b>Mst. Maleka Pervin</b>	Attitudes Towards Evidence-Based Practice and Usage of Evidence-based Practices for Children and Adolescents with Autism Spectrum Disorder: A Comparison of Mental Health Professionals in Bangladesh and Germany
V08	<b>Esra Zeynep Ddkc &amp; Halil Aziz Veliglu</b>	Modeling the Physiopathology of Capgras Syndrome A Virtual Lesion Study
V09	<b>Tuçe Nur Akar &amp; Esra Zeynep Ddkc</b>	Examination of the Relationship of Prospective Memory with Executive Functions and Attention by EEG
V10	<b>Lilit Darbinyan</b>	Effects of L-Thyroxine on rat hippocampal neurons
V11	<b>Margarita Danielyan</b>	Studying the biochemical status of various tissues in rats on a model of Parkinson's disease under the influence of melanin
V12	<b>Melinda A. Jeglinski-Mende</b>	Negation has a size! Number magnitude corresponds with set-size in linguistic negation
Virtual Poster Session C		March 17, 2023 at 13:30-14:30
V13	<b>Cinthia Sayuri Misaka</b>	The effects of learning Japanese by a Brazilian person with aphasia
V14	<b>Sonia Montemurro</b>	The Relationship Between Aperiodic Activity Of Resting-State EEG and Cognitive Performance is Modulated by Education In Aging
V15	<b>Silvia Canino</b>	Inner and outer bodily information processing: evidence in adolescence
V16	<b>Magdalena Gippert</b>	Motor Imagery of Linked Movements Enhances Motor Adaptation
V17	<b>Cemre Baykan</b>	Influences of temporal order in temporal reproduction
V18	<b>Ekaterina Ivanina</b>	EmoEye Project: deep learning-based approach to commercial eye-tracking data analysis
Virtual Poster Session D		March 17, 2023 at 14:30-15:30
V19	<b>Elizaveta Ivanova</b>	The origin of symbolic numerical knowledge in preschool children - a longitudinal study (research plan)
V20	<b>Lin Yu</b>	Perturbation of Initial and Final Action Goals during the Preparation of Grasp-to-Rotate Movement: An ERP study
V21	<b>Yalcin Ceyda</b>	Investigation of Metamemory Judgments During Eyewitness Testimony
V22	<b>Anabela Pereira</b>	Mind, brain, body & environment interaction: the emotionally embedded cognition hypothesis
V23	<b>L. S. Merritt Millman</b>	Altered interoceptive sensibility with intact interoceptive accuracy and awareness in functional neurological disorder