

ICON 2022

Poster schedule

Wednesday 18.5.2022

Poster session I (77)

Theme: Attention and executive functions (36)

1. **Ebbs and flows away: Reducing mind wandering with intermittent theta burst stimulation over the dorsolateral prefrontal cortex**
Aasen Steffen Rygg
2. **The effect of transcranial direct current stimulation on the interplay between executive control, behavioral variability and mind wandering**
Alexandersen Andreas
3. **The Effect of Partial Sleep Deprivation on Mind Wandering and Cognitive Performance**
Babiker Samy
4. **Decoding semantic and sensory predictions from EEG activity**
Barne Louise Catheryne
5. **Open your eyes and listen – Complementary audiovisual information helps understanding speech in difficult hearing situations**
Begau Alexandra
6. **Auditory emotional distraction—between costs of orienting of attention and benefits of arousal**
Bonmassar Carolina
7. **Attention and expectation interacting modulations in the auditory cocktail party**
Cervantes Constantino Francisco
8. **Concealed information detection with pupillometry in rapid serial visual presentation**
Chen Yining
9. **Rapid within-trial adjustments of cognitive control during conflict resolution**
Chuderski Adam
10. **Relationship between action games and cognitive control: mediating effect of working memory capacity and the moderating effect of problematic gaming.**
Cudo Andrzej
11. **Semantic relatedness differentially mediates overt attention when searching for pictures versus words: An online webcam-based eye tracking study**
D'Innocenzo Giorgia
12. **Mechanisms of far transfer from cognitive training: Should we train the ability to ignore distractions?**
Desmarais Annie
13. **Efficient compression of sensory information during categorical decisions**
Drevet Julie
14. **Reducing mind wandering using cTBS over the left angular gyrus**
Drevland Ragnhild Nicolaisen
15. **Feature selection in Guided Search is associated with modulated neuronal excitability to target and distractor features in early visual regions**
Duecker Katharina
16. **Modified EEG spectral content during attention task in non-demented healthy adults with genetic risk of Alzheimer's disease**
Dzianok Patrycja
17. **Neuronal oscillations in the preparative processes in Wisconsin card sorting test**
Elonen Jasmin
18. **Target facilitation in the absence of distractor suppression in visual search**
Forschack Norman

19. **A systematic review and meta-analysis of behavioural sex differences in executive control**
Gaillard Alexandra
20. **Time-Dependent Effects of Stress on Working Memory Related Prefrontal Processing**
Geißler Christoph
21. **Are age-related cognitive inhibition deficits domain-general?**
Grégoire Coline
22. **Disentangling the roles of reward and object-status in visual attention**
Grignolio Damiano
23. **Stimulus-induced changes in 1/f-like background activity in EEG**
Gyurkovics Mate
24. **Congruency triggers Response Facilitation: Dissociable EEG Correlates of Sequential Conflict Adaption**
Haciahmet Céline
25. **Attention to Speech: Mapping Distributed and Selective Attention Systems**
Har-shai Yahav Paz
26. **Sex hormones modulate sex differences and relate to hemispheric asymmetries in a divided visual field Navon task**
Hausinger Tobias
27. **Strategic control over incentive salience in naturalistic human vision**
Hickey Clayton
28. **Temporal EEG dynamics of foraging decisions in humans**
Kirsch Franziska
29. **Allocating spatial attention in an audio-visual cocktail-party environment: evidence from ERPs and neural oscillations**
Klatt Laura-Isabelle
30. **Effects of meditation states and expertise on attentional and cognitive monitoring brain networks**
Kolev Vasil
31. **Cognitive flexibility and N2/P3 event-related brain potentials**
Kopp Bruno
32. **Humans dynamically adjust sensory excitability to guide perceptual decisions**
Kosciessa Julian
33. **Alpha and theta activities reflect individual differences in Temporal Information Processing in Go/No Go task**
Krystecka Klaudia
34. **The impact of age on executive function performance and the interactions of prefrontal cortex and autonomic functions**
Ku Pei-Hsin
35. **Pronounced distractibility of reasoning suggests a distorted structure of cognitive abilities in schizophrenia**
Kucwaj Hanna
36. **Unmasking instrumental associations by removing reinforcement**
Kurtenbach Hannah

Theme: Development and plasticity (7)

37. **Selective brain response to voices at four months of age**
Calce Roberta Pia
38. **The impact of game elements on cognitive training effectiveness**
Desmarais Annie
39. **Neonatal frequency-following response: a new tool in developmental cognitive neuroscience**
Escera Carles
40. **Muscone promotes Abeta clearance and ameliorates cognitive deficiency in APP/PS1 mice through HDAC2 degradation**
Liu Yi
41. **Benefits of choir singing on complex auditory encoding in the aging brain: An ERP study**
Pentikäinen Emmi

42. **Long-term visual deprivation effects selective visual attention, short-term memory and cortical plasticity**
Wagner Franziska
43. **Visual ERPs to face onset predict the speech recognition ability after cochlear implantation**
Weglage Anna

Theme: Language and music (34)

44. **Neural correlates of predictive coding in continuous speaking and listening**
Abbasi Omid
45. **Oscillatory dynamics supporting longitudinal plasticity of action semantics across languages: Evidence from bilingual brain tumor patients**
Amoruso Lucia
46. **Daytime slow-wave sleep promotes memory consolidation for novel morphology**
Balla Viktoria
47. **Neural speech tracking in the absence of visual input: Dark listening**
Berto Martina
48. **The effects of cerebellar tDCS on lexical-semantic memory retrieval**
Besterciová Dominika
49. **Frequency modulation in spoken-word production**
Cao Yang
50. **Electrophysiological indices of cognitive functioning in people with aphasia**
Choinski Mateusz
51. **Physiological correlates of aesthetic experience in music concerts**
Czepiel Anna
52. **Investigation of Mu Oscillations to Groove Music**
Duman Deniz
53. **An auditory-reward network processes musical uncertainty and surprise to pleasurable effect**
Gold Benjamin
54. **Masking of mouth impairs reconstruction of acoustic speech features and higher-level segmentational features in the presence of a distractor speaker**
Haider Chandra Leon
55. **Investigating the effects of temporal and semantic predictability on the cortical response to ongoing speech**
Hausfeld Lars
56. **Investigating the microstructural foundations of cortical speech tracking**
Helbling Saskia
57. **Variability in the temporal distribution of linguistic units in natural speech**
Iaia Cosimo
58. **Intonation Units evoke a neural response and form ~1 Hz rhythms in spontaneous speech**
Inbar Maya
59. **The music complexity affects the late but not early musical syntax processes**
Jaškiewicz Marta
60. **Processing of duration and pitch by Estonian and Chinese native speakers**
Lyu Siqu
61. **Learning of novel song lyrics in chronic post-stroke aphasia: Behavioural and functional neuroimaging evidence**
Martínez-Molina Noelia
62. **Speech features analyses can support the differential diagnosis between ADHD and comorbid ADHD and bipolar disorder**
Martz Emilie
63. **Basal ganglia and cerebellar contributions to auditory rhythm tracking and temporal anticipation**
Mazhari-Jensen Daniel

64. **Neurophysiological changes in lexical-semantic processing in healthy aging**
Nurmi Pietari
65. **Lexical parafoveal processing in natural reading predicts reading speed**
Pan Yali
66. **Right-hemisphere recruitment after left-hemisphere stroke: a combined MEG and interhemispheric tractography study**
Piai Vitoria
67. **Neural maturation of speech encoding abilities in infants from birth to six months of age**
Puertollano Marta
68. **Contextual effects on Chinese idiom processing: an ERP study**
Qi Wei
69. **Changes in late frontal event-related potentials to self-produced foreign phonemes correlate with improvements in pronunciation**
Railo Henry
70. **No effect of cerebellar tDCS on semantic prediction**
Riecan sky Igor
71. **Form- and meaning-based knowledge benefits on speech perception: an fMRI study**
Signoret Carine
72. **Detecting Morphosyntactic Violations from the Second Language(L2) Comprehension with a Machine Learning Approach**
Son Guiyoung
73. **Cortical Tracking of Formant Modulations Derived from Silently Presented Lip Movements and Its Decline with Age**
Suess Nina
74. **Priming Effects on Metaphor Comprehension in Chinese English Learners: An ERP Study**
Sun Yalin
75. **Quantity perception among Estonian kindergarten children with developmental language disorder**
Themas Liis
76. **Do Chinese-English speakers show hemispheric dominance for metaphor processing in their native or non-native language? Divided-visual-field and ERP study**
Zhu Xichu
77. **The role of alpha and beta oscillations in naturalistic language processing**
Zioga Ioanna

Thursday 19.5.2022
Poster session II (79)

Theme: Motor functions (10)

78. **The role of motor programs in the visual search task**
Anufrieva Anastasia
79. **Neuronal Activity and Behavioral Strategies during Body Balance Maintaining**
Hramov Alexander
80. **Confirmation behavior in sensorimotor control**
Kasper Johannes
81. **The efficacy of cognitive cues in reducing behavioral interference in complex inhibition tasks**
Kemp Sarah
82. **Object affordances and action understanding: Do object affordances inform motor action preparation when viewing goal-directed actions?**
Larkman Charlotte
83. **Hemispheric differences in the control of visually-guided asymmetric bimanual movements**
Nissen Christina

- 84. **Movement range of elicited finger movements does not affect proprioceptive response strength in magnetoencephalography**
Nurmi Timo
- 85. **Physical Effort Modulates Urgency and Speed Accuracy Trade-off in Decision Making**
Ozbagci Devin
- 86. **Kinesthetic affective motor imagery: A novel task for future Brain-Computer Interfaces?**
Wriessnegger Selina Christin
- 87. **Handedness effects on movement imagery during kinesthetic and visual-motor conditions. An EEG study**
Zapala Dariusz

Theme: Sensory systems, perception (69)

- 88. **Temporal integration and segregation of visual information are associated with different speeds of neural oscillations: evidence from sEEG**
Acunzo David
- 89. **Distinguishing modulation of early visual cortex by reward cues from the same or different sensory modalities**
Antono Jessica Emily
- 90. **Cardiac effects on visual and auditory duration perception**
Arslanova Irena
- 91. **Somatosensory deviance detection ERPs and their relationship to analogous auditory ERPs and interoceptive accuracy**
Astikainen Piia
- 92. **Decoding object categories from single fixations in natural viewing conditions**
Auerbach-Asch Carmel Ruth
- 93. **Skipping a beat: evoked potentials reflect predictions during interoceptive-exteroceptive integration, a pre-registered study**
Banellis Leah
- 94. **Influences of temporal order and volatility in temporal reproduction**
Baykan Cemre
- 95. **Cortical Response to Changes of Auditory Statistics: Local and Global representations**
Berto Martina
- 96. **Investigating the impact of agency on visual perception: a behavioral and EEG study**
Bonnet Emmanuelle
- 97. **The origin of the effect of articulatory interference on speech perception.**
Carneiro Pereira Sarah
- 98. **Alterations in event related potential (ERP) associated with tinnitus severity**
Chung Kyungmi
- 99. **Is hedonic liking modality general? Individual sensitivity to balance, symmetry and complexity show distinct auditory and visual effects**
Clemente Ana
- 100. **Visuo-thermal congruency modulates the sense of body ownership**
Crucianelli Laura
- 101. **The Computer, A Choreographer? Aesthetic Responses to Computer-Generated Dance Choreography**
Darda Kohinoor
- 102. **Symmetry perception ERP (the SPN) is not modulated by visual short-term memory**
Derpsch Yiovanna
- 103. **Impairments in path integration, rotational memory and balancing in patients with temporal epilepsy**
Dordevic Milos
- 104. **Conflict monitoring and attentional adjustment during binocular rivalry**
Drew Alice
- 105. **Representational similarity analysis of neural processing of global and local biological motion**
Duarte João Valente

106. **The neural dynamics of tool-extended sensing**
Fabio Cécile
107. **Impaired evoked and induced neural oscillations during visual search in cerebral visual impairment**
Federici Alessandra
108. **Decoding acoustic and visual features of continuous speech from EEG in children and adults**
Fantoni Marta
109. **Altered induced oscillatory activity by temporary monocular deprivation: distinct neural signatures for visual and audio-visual processing**
Federici Alessandra
110. **Is there an association between cognitive and visual decline?**
Garobbio Simona
111. **Experience-related attenuation of distractive deviants in the mouse somatosensory system**
Ghasemi Nejad Newsha
112. **Electrophysiological representations of veridical head direction in humans**
Griffiths Benjamin James
113. **Rhythmic interactions between the mediodorsal thalamus and prefrontal cortex precede human visual perception**
Griffiths Benjamin James
114. **Pre- and Post-choice Build-up of the Centro-parietal Positivity Predicts Confidence**
Grogan John
115. **Spatial dimension of steady-state visual evoked potentials in mouse primary visual cortex**
Gulbinaite Rasa
116. **Neural signature of evidence accumulation and motor preparation in a prolonged contrast comparison task including no physical noise**
Hajimohammadi Hadiseh
117. **Neural Mechanisms of Low-Frequency Electrical Stimulation on Pain Processing: A Sham-Controlled, Laser-Evoked Potential Study**
Hewitt Danielle
118. **Magnocellular-parvocellular imbalance correlates with mirror image discrimination**
Houbben Marie
119. **Alpha power is coupled to the infra-slow gastric rhythm in different visual tasks**
Hüer Janina
120. **Pre-stimulus oscillation phase predicts visual perception**
Juvonen Joonas
121. **Isolating signatures of motor-independent evidence accumulation signals in human and monkey EEG**
Kalou Katerina
122. **Biases in duration judgements caused by visual changes unveil the interaction between sensory and temporal perception**
Kruijne Wouter
123. **Impaired Occipital Connectivity During Motion Binding in Healthy Older Adults**
Küçük Kurtuluş Mert
124. **Quantifying ownership signal processing and perceptual bias in the rubber hand illusion: A signal detection study**
Lanfranco Renzo
125. **Differences in audiovisual speech processing in CI users with unilateral and bilateral hearing loss: an ERP study**
Layer Natalie
126. **The effects of stimulus inversion on the neural representations of face and Chinese character recognition**
Li Chun-Hui
127. **The short-term passive exposure to non-native speech contrasts induces learning at neural and behavioural level in adults**
Lohvansuu Kaisa

128. **Explaining flexible continuous speech comprehension from individual motor rhythms**
Lubinus Christina
129. **Independence and overlap of symmetry representations in the extrastriate cortex**
Makin Alexis
130. **Does temporal predictability enhance auditory temporal resolution ? Behavioral results from a gap detection paradigm**
Mandin Valentine
131. **Investigating the reverse motion illusion in random dot kinematograms**
Mc Keown Pat
132. **Discerning feedforward decision formation in human V1 using EEG: A response-time dependent choice probability in the C1 component**
Mohr Kieran
133. **Spatial and temporal (non)binding of audio-visual stimuli: effects on motor tracking and underlying neural sensory processing**
Morgan Lapenta Olivia
134. **Reading point-light walkers and amorphous – a TMS study.**
Morgan Lapenta Olivia
135. **Do you automatically track time?**
Nedelec Yvan
136. **Are we there yet? Neural signatures of evidence accumulation in temporal decisions**
Ofir Nir
137. **Brain and spinal cord interactions underlying conditioned pain modulation**
Ojala Karita
138. **Population receptive fields isolate or combine target and flankers in (un)crowding**
Ozkirli Ayberk
139. **Sensory processing sensitivity modulates attention engagement with emotional pictures**
Pacula-Leśniak Beata
140. **Cardio-audio and auditory regularity processing in human wakefulness and sleep**
Pelentritou Andria
141. **Cardio-audio regularity processing occurs in the absence of consciousness**
Pelentritou Andria
142. **"Stubbornness" but not confirmation bias predicts poorer performance in repeated perceptual decision-making tasks**
Pérez-Bellido Alexis
143. **Modulation of visual contrast sensitivity with individualized transcranial random noise stimulation is time-dependent and specific for the primary visual cortex**
Potok Weronika
144. **The visual fixation shift between experimental trials exceeds the stereoacuity threshold, which reveals a stereoacuity strategy under fixational eye movements**
Ptukha Anna
145. **Rhythmic sampling between eye channels**
Re Daniele
146. **Direct Cochlear Recordings in Humans Show a Theta Rhythmic Modulation of Auditory Nerve Activity by Selective Attention**
Reisinger Patrick
147. **Action planning modulates perceptual confidence**
Sanchez Remi
148. **A bias generating temporal distortions in serial perception**
Sierra Franklenin
149. **Rhythmic facilitation of visual discrimination is dependent on individuals spontaneous motor tempo**
Snapiri Leah
150. **Joint effect of pre-stimulus alpha-band amplitude and phase on visual awareness**
Stern Enrique

- 151. **Active learning improves memory and differentially affects neural responses**
Sturm Stefanie
- 152. **Rhythmic modulation of perceptual reports depends on participants' internal state**
Tosato Tommaso
- 153. **An investigation into the necessary conditions for perceptual organisation using the SPN**
Tyson-Carr John
- 154. **Perceptual extrapolation of body movements is driven by internal models of others' body**
Vandenberghe Antoine
- 155. **Perception of body movements and postures is shaped by models of others' body**
Vannuscorps Gilles
- 156. **The Role of Evidence Accumulation in Perceptual Decisions About Noiseless Stimuli**
Walsh Kevin

Friday 20.5.2022
Poster session III (81)

Theme: Attention and executive functions (37)

- 157. **Conflict resolution and response inhibition: A combined Flanker and Stop Signal task**
Bundt Carsten
- 158. **When sound SPARCs cognitive control: An fMRI study of response conflict from spatial pitch associations**
Langner Robert
- 159. **Causal role of the PFC on working memory protection from visual distractors using continuous measure of object memory recall**
Leticevscaia Olga
- 160. **Planned, task-specific allocation of cognitive effort modulates EEG low frequency dynamics during task preparation**
Liegel Nathalie
- 161. **Executive functions are reflected in children's P3a responses**
Linnavalli Tanja
- 162. **Interactions between decision-making and emotion in behavioural-variant frontotemporal dementia and Alzheimer's disease**
Manuel Aurélie
- 163. **Distinct EEG markers for intentional and unintentional mind-wandering**
Martel Adrien
- 164. **Orienting in an uncertain world: pupil-linked neuromodulation and temporal dynamics of expected and unexpected uncertainty**
Marzecová Anna
- 165. **The spatio-temporal dynamics of the attentional spotlight and expectations**
Melcón María
- 166. **Modulations of transfer effects on working memory by a single-session filter training under tDCS - individual response to network-oriented stimulation**
Menze Inga
- 167. **Electrophysiological indices of selective attention predict the quality of object representation in the human brain**
Munasinghe Vinura Kisalkumara
- 168. **Modulation of mind wandering using transcranial direct current stimulation – a meta-analysis**
Nawani Hema
- 169. **Acoustic Neurofeedback Increases Beta ERD During Mental Rotation Task**
Ozga Wioletta Karina
- 170. **Neural Variability of Crosstalk Effects in Dual-Tasking and Its Modulation by Age**
Paas Oliveros Lya Katarina

171. **Modulating visual working memory capacity with sensory entrainment**
Pileckyte Indre
172. **MEG studies of voluntary and involuntary visual attention using frequency tagging**
Pisarchik Alexander
173. **Examining the Role of the Noradrenergic Locus Coeruleus for Predicting Attention and Brain Maintenance in Healthy Old Age and Disease**
Plini Emanuele
174. **Suppression of beta oscillations during decision-making reveals increased processing preceding exploratory decisions under exploration-exploitation dilemma: a MEG study.**
Pultsina Kristina
175. **Interactions between external and internal attention processes during working memory task**
Puszta András
176. **Distinct roles of the N2 and P3 in action stopping**
Puszta András
177. **The effect of sequences and stop signal delay adjustments in the stop signal task: An EEG study**
Puszta András
178. **Causal evidence for the role of the frontoparietal network in rhythmic attentional sampling**
Raposo Isabel
179. **Lateralized theta oscillations in prefrontal cortex during the prioritization of working memory representations**
Riddle Justin
180. **Does meaningful background speech consume attentional resources? A pupillometry study**
Ríos-López Paula
181. **Urgency influences decision making but not motor cortical representation of perceptual evidence**
Rogge Julia
182. **Post-conflict attention adjustments: A test for proactive mechanisms reflected in frontal-parietal oscillations.**
Ruzzoli Manuela
183. **Eye tracking study of guidance and verification in hybrid search**
Sapronov Frol
184. **The role of the anterior insula in mental word reversal tasks involving distinct levels of cognitive load**
Sousa Teresa
185. **Evidence for a common 'cerebral clock' controlling both perceptual and motor timing: a cross-domain comparison**
Stanczyk Magdalena
186. **Investigating the nature of inhibitory control impairments in males with Klinefelter syndrome**
Thunberg Christina
187. **Consistency or fluctuation? How humans manage limited search capacity over consecutive uncertain choices**
Vidal Alice
188. **Violation of rule-based auditory patterns is detected independently of attention at an early level of the auditory hierarchy**
Volehaugen Vegard
189. **Reward-context effects on perceptual decision-making**
Wardhani Intan K.
190. **From context to action: Complementary roles of population dynamics and network oscillations**
Weber Jan
191. **Arithmetic problem solving during auditory distraction: An fMRI study**
Ylinen Artturi
192. **The effects of anodal tDCS of the frontoparietal network on higher cognitive functions**
Živanović Marko
193. **Segmental WM fascicle microstructural damage early predicts the corresponding cognitive domain impairment in CSVD patients by AFQ**
Xu Yun

Theme: Emotions & social cognition (21)

194. **The Effect of Pausing for Reflection while Reading on Empathy and Creativity**
Clabough Erin
195. **The rIFG Integrates Emotion and Cognition - Evidence From an EEG/FEM Beamformer Study**
Dietrich Anya
196. **Brain-body interactions in emotions: perspective matters**
Engelen Tahnée
197. **When Predictive Coding Goes Wrong: Sensorimotor Activation Predicts and Accompanies Illusory Social Perception**
Friedrich Elisabeth V C
198. **Brain dynamics of recommendation-based social influence on preference change: A magnetoencephalography study**
Irani Fatemeh
199. **The impact of problematic Facebook use and Facebook context on empathy for pain processing: An functional near-infrared spectroscopy study**
Kopiś-Posiej Natalia
200. **The effect of cognitive strategies and facial attractiveness on empathic neural responses**
Kopiś-Posiej Natalia
201. **The induced sad mood affects the unconscious and conscious perception of emotional faces**
Li Xueqiao
202. **Social dominance and decision making**
Lin Wei-hsiang
203. **I'm worthless: electrophysiological evidence for lower implicit self-esteem in dysphoria**
Lou Yixue
204. **Effect of amateur choir singing on subjective cognitive functioning, social participation and quality of life across adulthood**
Lucendo-Noriega Alicia
205. **Multiple large-scale neural networks underlying emotion regulation**
Morawetz Carmen
206. **Effects of social presence on neural and behavioural aspects of empathy for pain**
Peteiret Pauline
207. **Anger processing in traumatic brain injury: an eye-tracking study on attentional bias to angry faces**
Rossignol Mandy
208. **Minority status, ethnicity, and prejudices: a systematic meta-analysis on fMRI studies**
Saarinen Aino
209. **Chronotype and time-of-day effects on face processing: Early ERP correlates**
Santos Isabel M
210. **Meditation Aided With 40 Hz Binaural Beats Enhances The Cognitive Function And Mood State**
Shakya Rubina
211. **The role and possible mechanism of prefrontal cortical GABAergic transmission impairment in MCI with depression**
Shu Shu
212. **The brain automatically categorizes discrete auditory emotion expressions**
Talwar Siddharth
213. **Neural and behavioral correlates of empathy for pain in Tourette syndrome**
Weiblen Ronja
214. **Oxytocin reduces romantic rejection-induced pain as revealed by decreased frontal-midline theta oscillation**
Zhang Xukai

Theme: Consciousness, cognition (23)

215. **Competing cognitive pressures on human exploration in the absence of trade-off with exploitation**
Almeras Clemence
216. **Exploring the effects of cerebellar transcranial direct-current stimulation on thalamo-cortical networks during command-following**
Aloi Davide
217. **Discovering basic cognitive stages in a visual discrimination task with HsMM-MVPA analysis**
Berberyán Hermine
218. **Examining the shift between internal and external cognition; a behavioural study**
Calzolari Sara
219. **A complex pattern of neural effort during fluid reasoning**
Chuderski Adam
220. **Intrinsic decision biases are under cognitive control**
Compain Clémence
221. **EEG correlates of feedback processing during reinforcement learning do not necessarily distinguish between action-contingent versus random outcomes**
Csifcsak Gabor
222. **Direct brain recordings reveal continuous encoding of structure in random stimuli**
Fuhrer Julian
223. **The association of self-reported intake of fat and sugar with peripheral expression of dopaminergic genes**
Hartmann Hendrik
224. **Influence of linguistic labels on concept formation and perception in a deep unsupervised neural network model**
Henningsen Malte
225. **Reliability of visual and auditory MMN**
Kreegipuu Kairi
226. **The minimal exposure duration required for neural processing of faces and emotional expressions**
Lanfranco Renzo
227. **Hypnotic visual hallucination induces greater lateralised top-down modulation over brain activity than visual mental imagery**
Lanfranco Renzo
228. **The microstructural and connectomic fingerprints of cardiac interoception**
Legrand Nicolas
229. **Cardiac and respiratory phase selectively affect early visual potentials at the sensory threshold**
Leupin Viviana
230. **Neural Mechanisms of Reward Processing During Online Vickrey Auctions: An Event-Related Potential Study**
Newton-Fenner Alice
231. **Event-related potentials and functional brain networks in segregating two speech streams with different time-scales of predictability**
Szalárdy Orsolya
232. **Neural mechanisms of contingency leaning: the role of contingency awareness and cognitive control.**
Sznabel Dorota
233. **Regulating the accrual of visual information to awareness with alpha entrainment**
Torralba Cuello Mireia
234. **Transient behavioral responsiveness to external information is present across all sleep stages and can be predicted from EEG signal**
Türker Başak
235. **Time-varying functional whole-brain connectivity synchronizes between individuals during movie watching**
Türker Başak
236. **Hierarchical strategic and non-strategic expectations in language comprehension**
Vidal Gran Consuelo

237. **Representation of content in sustained viewing conditions: a case study for consciousness theories**
Vishne Gal

Saturday 21.5.2022
Poster session IV (83)

Theme: Brain and behavioral dynamics (26)

238. **Does the respiratory cycle modulate visual perception? An exploratory study in the domains of emotional face perception and motion discrimination**
Brændholt Malthe
239. **Neural rhythmic representation of intergroup bias: comparing political right and left**
Kluge Annika
240. **Respiration aligns perception with neural excitability**
Kluger Daniel
241. **Relationships between local and global oscillatory measures of connectivity and structural connectivity in the healthy population**
Lambe Emily
242. **Fatigability-related spectral power changes in people with multiple sclerosis**
Linnhoff Stefanie
243. **Does dynamic urgency facilitate perceptual decision making in continuous monitoring contexts?**
McCone Harvey
244. **Microstructural and connectomic fingerprints of inter-individual differences in respiratory interoception**
Nikolova Niia
245. **Cardiac cycle and respiration phase affect responses to the conditioned stimulus in young adults during trace eyeblink conditioning**
Nokia Miriam
246. **Changes in the external environment are reflected in stable patterns of brain activity that underlie event segmentation**
Oetringer Djamari
247. **The importance of considering ongoing brain activity when studying evoked responses in the EEG and pupil signals**
Ribeiro Maria
248. **Impaired reward processing in chronic stroke survivors**
Schreiber Minne
249. **Anticipating positive social feedback recruits the ventral and medial human substantia nigra: evidence from high-resolution fMRI**
Sobczak Alexandra
250. **Bistable critical dynamics in the resting human brain: a MEG source study**
Wang Sheng H
251. **Reward-context effects on working memory: Insight from an EEG-pupillometry study**
Wardhani Intan K.
252. **Phonological information can modulate orthographic processing already at the earliest stages of visual processing: An electrophysiological study**
Araújo Susana
253. **Neurally-informed modelling of ageing effects on the speed-accuracy trade-off**
Judd Cian
254. **Modulating locus coeruleus activity via volitional control of pupil diameter**
Meissner Sarah
255. **Human aging influences neural reward processing to maintain robust reward sensitivity**
Volkmer Annika
256. **Phasic event-related transcutaneous auricular vagus nerve stimulation modulates pupillary response**
Wienke Christian

257. **A study on the relationship between history effects in perceptual decisions and brain rhythms**
Ceylan Gizay
258. **Spontaneous slow fluctuations in oscillation amplitudes orchestrate conscious visual perception: A source-reconstructed time series analysis**
Cruz Gabriela
259. **From deep to shallow rooting approaches in schizophrenia research**
Gordillo Dario
260. **Differentiating cognitive states and task demands by aperiodic electrophysiological markers in humans**
Höhn Christopher
261. **Long-term temporal structure and scale-freeness of high-level perception**
Irani Martin
262. **Comparing Response Inhibition and Interference Resolution using 7T MRI**
Isherwood Scott
263. **Neurally informed insights into perceptual learning in decision making tasks**
Judd Cian

Theme: Connectivity, neuronal oscillations (18)

264. **Inhibitory control functional connectivity associated with predisposition to alcohol binge drinking in adolescents: a longitudinal MEG study**
Antón-Toro Luis
265. **Detrended fluctuation analysis in the presurgical evaluation of parietal lobe epilepsy patients**
Auno Sami
266. **The maladaptive embodied brain: inter-individual psychopathology profiles reveal finger-prints of brain body interaction**
Banellis Leah
267. **A new measure of transcallosal conduction delay shows the importance of asymmetry in bimanual coordination**
Bortoletto Marta
268. **Dynamics of Cortical Neural Processing under Sensory-Perceptual and Auditory-Cognitive Load in Young Listeners**
Brilliant Brilliant
269. **Cortical oscillatory changes during cognitive effort to achieve a reward or avoid a loss**
Byrne Adam
270. **Replicability of the brain map of natural frequencies during resting state**
Capilla Almudena
271. **Diachronic evolution in oscillatory activity in non-pathological development measured by MEG**
Doval Sandra
272. **Hierarchically nested networks optimize audiovisual speech processing**
Chalas Nikos
273. **An individualized and comparative approach to the neurophysiology of beat and rhythm processing**
Criscuolo Antonio
274. **The role of beta oscillations in mental time travel**
D'Angelo Mariano
275. **Alcohol binge drinking and gamma band evolution during adolescence**
Del Cerro-león Alberto
276. **Topographic changes of brain frequency rhythms throughout life: a MEG study**
Doval Sandra
277. **Resting state network dynamic reconfiguration and neuropsychological functioning in temporal lobe epilepsy: an HD-EEG investigation**
Duma Gian Marco
278. **Multifractal characterization of the critical Landau-Ginzburg model for cortical dynamics**
Dumour Merlin

279. **Distinct frequency channels for maintaining feature specific information in visual working memory**
Haque Hamed
280. **The role of beta-band oscillations in interhemispheric interaction**
Sattelberger Judith
281. **Altered Excitation-inhibition balance in rapid eye-movement sleep behavior disorder patients**
Roascio Monica

Theme: Memory (39)

282. **Sleep enhances online retrieval consolidation of strongly encoded memories**
Baena Perez Daniel
283. **Sleep facilitates recovery of weakly encoded memories by affecting reinstatement of encoding processes at retrieval**
Baena Perez Daniel
284. **Brain networks involved in place recognition based on personal and spatial semantics**
Beldzik Ewa
285. **The influence of visual sampling on the encoding and interference of naturalistic episodes**
Bernhard Hannah
286. **Hippocampal theta tracks audio-visual integration in natural speech and predicts episodic memory formation**
Biau Emmanuel
287. **Neural mechanisms underlying the positive impact of stress on memory encoding and consolidation**
Bierbrauer Anne
288. **Towards cross-linguistic assessment of associative memory**
Bjekić Jovana
289. **From brain waves to memory boost: Personalized frequency-modulated transcranial electric stimulation over posterior parietal cortex for associative memory enhancement**
Bjekić Jovana
290. **Local vs global effects of schemas on facilitation of learning**
Bokeria Levan
291. **Lateralized EEG activity reflects retinotopic and screen-centered coordinates during visual short-term memory retention**
Busch Niko
292. **How boundaries sculpt memories**
Chandreswaran Varnan
293. **The role of STDP in human memory formation**
Chen Qiaoyu
294. **Fast Mapping (FM) in adults using implicit memory measures? Methodological but not result replication of Coutanche and Thompson-Schill (2014)**
Cooper Elisa
295. **Neural similarity between encoding and retrieval as a function of item typicality**
Delhayé Emma
296. **Maintenance of Bound or Independent Features in Visual Working Memory is Task-dependent**
Deouell Leon
297. **Individual differences in mesolimbic and cortico-hippocampal functional connectivity predict how curiosity and information prediction errors enhance memory**
Eschmann Kathrin C. J.
298. **The effects of curiosity states on sleep-dependent memory consolidation for incidental spatial information**
Freyer Martins de Melo Pereira Duarte
299. **Prefrontal stimulation disrupts motor memory consolidation at the micro-time scale**
Gann Mareike
300. **How Expectancy and Prediction Error modulate Episodic Memory in Normal Aging**
Greve Andrea

301. **Investigation of how an allocentric spatial schema enhances memory in humans**
Guo Dingrong
302. **Perceptual and conceptual representations in memory encoding, consolidation and retrieval**
Heinen Rebekka
303. **Theta oscillations support map-based navigation**
Herweg Nora Alicia
304. **Anticholinergic agent diminishes feedback learning in healthy participants**
Hils Jonathan
305. **Parietal alpha suppression is related to working memory capacity for numbers**
Hsu Yi-Fang
306. **Effects of repeated encoding on visual recognition accuracy**
Hupbach Almut
307. **Body ownership and the neural processes of memory encoding and reinstatement**
Iriye Heather
308. **Mnemonic mechanisms in virtual reality – Comparison of event-related potential correlates of repetition suppression between VR and the conventional laboratory**
Johnsdorf Marike
309. **Long-term Memory Associations Provide Cross-modal Access to Sensory Working Memory**
Kandemir Güven
310. **A visual impulse reveals memoranda embedded in functional connectivity: Evidence for activity-silent WM states**
Karabay Aytac
311. **Phase separation of competing memories along the human hippocampal theta rhythm.**
Kerrén Casper
312. **Brain oscillations during real-world episodic autobiographical memory retrieval**
Khachatourian Nareg
313. **Tracking neural representations of trauma-analogue memory intrusions**
Kobelt Malte
314. **Hippocampal neurons sparsely code individual episodic memories in humans**
Kolibius Luca
315. **Plasticity in control and memory circuits forecasts PTSD symptoms evolution**
Leone Giovanni
316. **Representational geometry of visual working memory information in human gaze patterns**
Linde-domingo Juan
317. **Remembering the past during new learning: the temporal dynamics of integrative encoding**
Liu Zhenghao
318. **Behavioral and computational evidence for state space factorization supporting compositional reuse of experience in humans**
Luettgau Lennart
319. **Prefrontal transcranial direct current stimulation enhances inhibition during semantic memory retrieval**
Marko Martin
320. **Curiosity-motivated learning and reward: Investigation with dynamic stimuli**
Meliss Stef

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Poster session V (81)

Theme: Cognitive training and neurogaming (5)

321. **HRV biofeedback evokes persisting improvements in attention, short-term memory, and positive self-referential episodic memory**
Bögge Lukas

- 322. **Modulation of individual gamma frequency: a pilot study of neurofeedback approach**
Griskova-Bulanova Inga
- 323. **Module-level structural and functional alternations in amnesic mild cognitive impairment**
Liu Ying
- 324. **Identification of behavioral and neuronal biomarkers and novel interventions for MDD**
Vesterinen Maria
- 325. **Intuitive physical inference of falling objects**
Zbären Gabrielle

Theme: Connectivity, neuronal oscillations (33)

- 326. **Distinct beta frequencies reflect distinct contextually-defined categories**
El Rassi Elie
- 327. **Temporal expectations synchronize central and peripheral nervous system activity**
Fink Lauren
- 328. **How did you sleep last night? The influence of sleep on functional connectivity in healthy adults**
García-Colomo Alejandra
- 329. **Investigating Differences in Frequency Characteristics in the Default Mode Network with Empathy-Related stimuli vs Resting State**
Gautam Shubhangi
- 330. **Functional, effective, and structural connectivity within the extinction network**
Gomes Carlos Alexandre
- 331. **Interaction-induced effects in lesser groups of people during co-operative decision-making: combined EEG and fNIRS study**
Grubov Vadim
- 332. **Investigating endogenous delta oscillations in human MEG**
Gunasekaran Harish
- 333. **Differences in Theory of Visual Attention Cognitive Functions between Video and Non-Video Gamers are Associated with Differential Alpha Amplitude Modulations**
Hilla Yannik
- 334. **High excitability and attenuated long-range temporal correlations predict Alzheimer's disease progression**
Javed Ehtasham
- 335. **Alzheimer's Disease as an Example of Desynchronization of Functioning and Collection of Neurocognitive Patterns—Potential Resources for the Development of AI**
Kaszyńska Anna
- 336. **Coupling of pupil- and neuronal population dynamics reveals diverse influences of arousal on cortical processing**
Keitel Christian
- 337. **Motor theta networks during response generation in aging**
Kolev Vasil
- 338. **Effects of age and dopamine D1 receptor availability on the differentiation of striato-cortical functional connectivity**
Korkki Saana
- 339. **Neuronal synchrony in the gamma-band mediates temporal attention**
Kulashekhar Shrikanth
- 340. **Influencing factors of reduced reward sensitivity and altered MEG connectivity after stroke**
Maas Johanna
- 341. **Neural Oscillatory Characteristics of Feedback Associated Activity in Globus Pallidus Interna**
Mahdavi Mahdi
- 342. **Functional Neuronal Interactions in a Spatially-Distributed Cortical Network During Perceptual Decision-Making**
Maksimenko Vladimir

343. **The role of pre-stimulus alpha rhythms in non-retinotopic feature integration**
Menétrey Maëlan Q.
344. **Meso-scale oscillatory architecture of a human cortex**
Myrov Vladislav
345. **The role of brain segregation and integration in maintaining verbal fluency in healthy ageing – a secondary EEG data analysis**
Oosterhuis Elise J.
346. **Brain network mechanisms for preserving reward sensitivity in aging**
Opitz Laura
347. **Global brain dynamics under visual entrainment**
Pascucci David
348. **Human concurrent intracranial EEG and fMRI reveals multiple temporally independent but spatially similar connectome trajectories across timescales**
Sadaghiani Sepideh
349. **"Altered phase synchrony and cross-frequency coupling in early cognitive decline"**
Siebenhühner Felix
350. **Human visual gamma for color stimuli: When L-M cone contrast is equalized, red is not special**
Stauch Benjamin J.
351. **Classification of preclinical and prodromal stages of Alzheimer's disease based on criticality and excitation/inhibition measures**
Susi Gianluca
352. **Analysis of multilayer functional connectivity networks for the diagnosis of Mild Cognitive Impairment.**
Taguas Ignacio
353. **Effects of temporal interference stimulation on mental rotation and individual alpha frequency**
Thiele Carsten
354. **Motor learning induces frequency-specific changes to large-scale brain network connectivity during post-learning sleep**
Titone Simon
355. **Maternal treatment with antiepileptic drugs during pregnancy affects sleep-related brain dynamics in newborns**
Tokariev Anton
356. **What is the role of frontoparietal attention network (de)synchronization underlying working memory and attention? An HD-tACS study**
Van Der Werf Olof
357. **Functional dissociation of hippocampal and neocortical ripples: From information transfer to consolidation**
van Schalkwijk Frank
358. **Training parents for an early emotional contact changes cortical networks in their preterm infants**
Yrjölä Pauliina

Theme: Memory (31)

359. **Resting-state activity in the basal forebrain predicts functional degeneration in the entorhinal cortex and decreases with Alzheimer's Disease progression**
Mieling Marthe
360. **Electrophysiological Correlates of Motor Memory Reactivation at Different Phases of the Slow Oscillation**
Nicolas Judith
361. **Switching between neural modes at sequential fixations in free viewing predicts successful episodic memory**
Nikolaev Andrey
362. **Impaired reinforcement learning in developmental dyslexia**
Odah Massarwe Atheer
363. **Top-down control of multi-item working memory representations**
Pacheco Estefan Daniel

364. **Actions attenuate sensory responses, increase pupil diameter, and disrupt memory encoding for concurrent, but unpredictable sounds**
Paraskevoudi Nadia
365. **Using functional connectivity to understand age differences in neural category specificity**
Pauley Claire
366. **Theta:gamma phase coupling and evoked gamma activity reflect the fidelity of mental templates during memory matching in visual perception**
Peylo Charline
367. **Evidence for the neural information flow during memory reconstruction from feature-specific reaction times**
Postzich Christopher
368. **The role of semantic codes in verbal working memory maintenance**
Querella Pauline
369. **Memory reinstatement and transformation in children and adolescents**
Rau Elias M.B.
370. **The how and when of sleep-dependent gist abstraction**
Rauss Karsten
371. **Cortical and sub-cortical contributions to schema-facilitated motor memory consolidation**
Reverberi Serena
372. **Independent component analysis reveals two functionally distinct posterior alpha rhythms during a working memory task**
Rodriguez Larios Julio
373. **Pattern reinstatement and attentional control: overlapping processes during episodic long-term memory retrieval**
Sabo Melinda
374. **Metformin prevents methotrexate-induced cognitive and hippocampal neurogenesis impairments in a rat model**
Sritawan Nataya
375. **DWI reveals rapid microstructural reorganization following motor sequence learning**
Stee Whitney
376. **Novelty Processing Drives Memory Formation via the Medial Temporal Lobe**
Steiger Tineke
377. **The FN400/N400 memory effects for perceptually fluent and disfluent words**
Strószak Paweł
378. **MiR-204-3p/Nox4 mediates memory deficits in a mouse model of Alzheimer's disease**
Tao Wenyuan
379. **Brief odor exposure induce lingering mnemonic biases for upcoming visual events**
Tarrida Joan
380. **Expectations about sounds but not omissions are mediated by predictability-specific neural templates**
Tivadar Ruxandra I.
381. **Power dynamics of the EEG spectrum when encoding words in variable size lists**
Veliks Viktors
382. **Is manual sensorimotor system involved in explicit memory for manipulable objects? A test with action priming and hand immobilization**
Villatte Jeremy
383. **MEG-study of Post-stimulus Episodic Memory Trace Formation**
Voevodina Ekaterina
384. **Altering stimulus timing via sensory entrainment at gamma frequency induces STDP-like recall performance in human episodic memory**
Wang Danying
385. **Investigating Neural Substrates of Successful Memory Encoding using fMRI**
Weuthen Alexander
386. **Impulse-based decoding of working memory for colour**
Wilhelm Sophia

387. **Post-encoding reactivation binds episodic sequences in long-term memory**
Wu Xiongbo
388. **Neural correlates of metamemory in a face-name associative learning task**
Xu Weiyong
389. **Functional coupling between CA3 and laterobasal amygdala supports schema dependent memory formation**
Yousuf Mushfa

Theme: Methods (12)

390. **Data and model considerations for estimating time-varying functional connectivity in fMRI**
Ahrends Christine
391. **Validation of Cortivision PHOTON CAP - a multi-channel wearable fNIRS device**
Augustynowicz Pawel
392. **Creating model brains to make convolutional neural network features more comparable with brain data**
Gözükara Dora
393. **The effect of data preprocessing by a non-expert on the performance of an Artificial Network supporting stroke detection**
Hemm Sophia
394. **Assessment of MRI Diffusion Parameters and Cerebral Blood Flow on Mild Cognitive Impairment Patients**
Juan Yang
395. **Meta scientific lessons from the complete Liverpool SPN catalogue**
Makin Alexis
396. **Improving activation maps and spatial coverage in near-infrared spectroscopy with data-driven physiological noise removal**
Padée Anna
397. **Measuring spectrally-resolved information transfer and information storage**
Pinzuti Edoardo
398. **Examining valuation decisions for products in the real world using mobile EEG and eye tracking**
Roberts Hannah
399. **The Reality of Virtual Reality**
Schöne Benjamin
400. **Clock time: a foreign measure to brain dynamics**
van Bree Sander
401. **Combination of functional, anatomical, and morphological networks in the identification of cognitive impairment in subjects with white matter hypersensitive**
Xu Yun