

| POSTER No. | DAY | NAME | PRESENTATION TITLE |
|---------------------------------|-----|--------------------------|--|
| CLINICAL | | | |
| 001 | 3 | Zeena-Britt Sanders | Bi-directional modulation of sensorimotor cortex during executed movements |
| 007 | 3 | David Marc Anton Mehler | Targeting the emotional brain – a Randomized Clinical Trial of realtime fMRI neurofeedback training in patients with depression |
| 009 | 3 | Tom Fruchtman | Neurofeedback intervention for Post Traumatic Stress Disorder (PTSD): Preliminary results from fMRI study of chronic PTSD patients |
| 012 | 3 | Takashi Yamada | The search for “theranostic biomarker” in psychiatric disorders: for more understanding the disease mechanism and for providing tailor-made therapy |
| 015 | 3 | Stephen M LaConte | Real-time fMRI modulation of DMN is enhanced with cognitive behavioral therapy in depression |
| 017 | 3 | Masayuki Hirata | Clinical Application of Implantable Brain Machine Interfaces |
| 019 | 3 | Mohit Rana | Self-regulation of anterior insular cortex in nicotine addicted smokers |
| 022 | 3 | Nana Morita Hayashi | Decoded neurofeedback training for steady-state visual evoked field in patients with spinal cord injury |
| 026 | 3 | Oliver Bichsel | Deep brain electrode-guided neurofeedback in Parkinson’s disease |
| 029 | 3 | Ryohei Fukuma | Neurofeedback using DBS electrodes in subthalamic nucleus of patients with Parkinson’s disease |
| 031 | 3 | Masaya Misaki | Individual difference in the effect of amygdala neurofeedback emotional training in combat-related PTSD |
| 033 | 3 | Marita Mariela Rance | Neurofeedback produces clinical improvement in obsessive-compulsive disorder that grows over time |
| 036 | 3 | Kathryn Dickerson | Using real-time fMRI neurofeedback as a tool for demonstrating therapeutic efficacy |
| 040 | 3 | Hiroaki Fujimoto | fNIRS-mediated neurofeedback for cerebellar ataxia: potential for augmenting rehabilitation outcome |
| NEURAL MECHANISM | | | |
| 049 | 3 | Leon Skottnik | Involvement of the reward system during rtfMRI neurofeedback across various self-regulation tasks |
| 052 | 3 | Meena M. Makary | DMN Functional Connectivity Modulation after Self-regulation of the Primary Motor Cortex Activity with Motor Imagery: A Real-time fMRI Neurofeedback Study |
| 055 | 3 | Wako Yoshida | Closed-loop pain relief control using fMRI multi-voxel decoder and reinforcement learning |
| 058 | 3 | Shingo Tanaka | Elucidating the role of the macaque lateral prefrontal cortex for the value-based decision making using the decoded neurofeedback |
| 062 | 3 | Fabien LOTTE | What are the best motor tasks to use and calibrate SensoriMotor Rhythm Neurofeedback and Brain-Computer Interfaces? A preliminary case study |
| COGNITION AND PERCEPTION | | | |
| 068 | 3 | Megan T deBettencourt | Predicting memory encoding by tracking attention |
| 071 | 3 | Jessica Elizabeth Taylor | An Investigation into the Ecological Validity of DecNef Fear Memory Counter-Conditioning |
| 073 | 3 | JD Knotts | Using decoded fMRI neurofeedback to identify multivariate patterns for illusory color perception |
| 075 | 3 | Hyun-Chul Kim | Mediation analysis between triple networks reflects functional connectivity changes from a mindfulness training in real-time fMRI neurofeedback setting |
| 078 | 3 | Yury Koush | Hippocampal CA1 down-regulation performance as a biomarker of preclinical Alzheimer’s disease. |
| 081 | 3 | Aurelio Cortese | Adaptive significance of consciousness in reinforcement learning |
| 085 | 3 | Gunda Hanna Johannes | Neurofeedback-aided regulation of food cue reactivity in the dopaminergic midbrain |
| METHOD, THEORY, MATH | | | |
| 088 | 3 | Yuto Okada | Simulation studies of deep-brain activity inference using fMRI-fNIRS |
| 091 | 3 | Tabea Kamp | Localizing the default mode network for real-time purposes using seed-based analyses |
| 094 | 3 | Rick van Hoof | Single trial letter imagery decoding in early visual cortex with high-field MRI |
| 096 | 3 | Michael Luehrs | Functional verification of fNIRS probe locations using a generalized SVM classifier model |

| POSTER No. | DAY | NAME | PRESENTATION TITLE |
|------------|-----|-----------------|---|
| 100 | 3 | Lydia Hellrung | Motion and physiological noise effects on neurofeedback learning |
| 103 | 3 | Klaus Mathiak | Intersubject covariance reveals patterns in neurofeedback dynamics and disturbances in psychiatric disorders |
| 108 | 3 | Ayumu Yamashita | Quantitative comparing the magnitude of measurement bias and sampling bias on multi-site resting-state fMRI connectivity with the magnitude of the effects of psychiatric disorders by using traveling subject design |
| 111 | 3 | Catalin Iourdan | KL-Evidence: A Novel Multivariate Neurofeedback Method for Differentiating Representations |
| 113 | 3 | Diletta Rivela | On the development of EEG sensorimotor rhythm-based continuous proprioceptive neurofeedback |
| 115 | 3 | Hanna Lu | Intra-individual variability of head motion (IIV-HM): a novel index of in-scanner head motion and its associations with cognitive performance |
| 118 | 3 | Judith Eck | Self-regulation of a functional network using real-time fMRI |

BRAIN-MACHINE INTERFACE

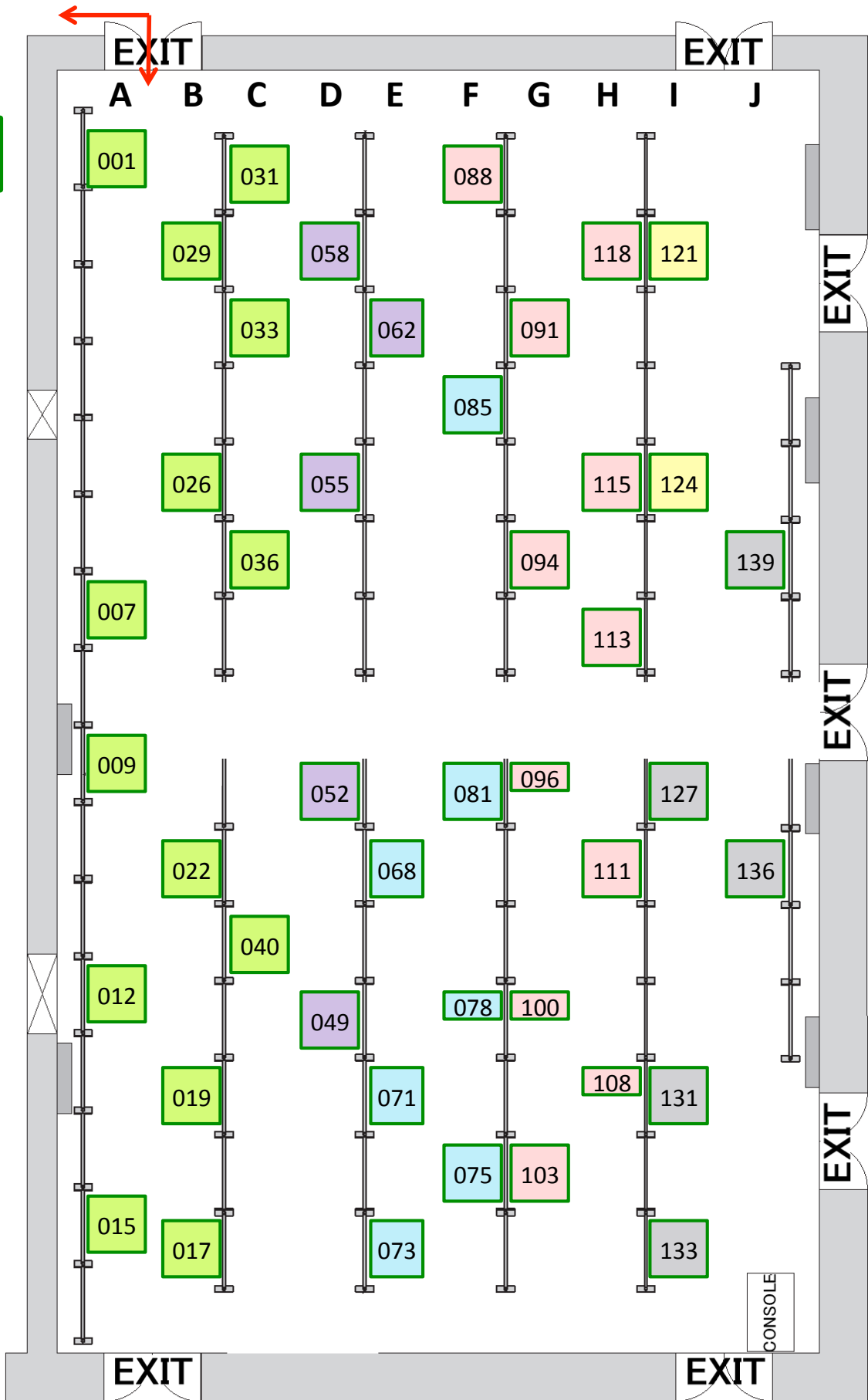
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| 121 | 3 | Taro Kajiu | Induction of electrocorticography patterns via operant conditioning using a BMI self-feeding task |
| 124 | 3 | Jun-ichiro Furukawa | Human Movement Estimation from Multiple Biosignal Observations toward Safe Assistive Robot Control |

EMOTION AND SENSORIMOTOR

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|-----|---|--------------------------|--|
| 127 | 3 | Zhiying Zhao | Training the Emotion Regulation Circuit Using Functional Connectivity Based rt-fMRI Neurofeedback: Proof-of-Concept |
| 131 | 3 | Renate Schweizer | Extended rt-fMRI neurofeedback training of the somato-motor cortex reveals different learning outcomes |
| 133 | 3 | Michael Marxen | The Influence of Amygdala Regulation on Emotional Reactivity |
| 136 | 3 | Frank Pollick | Enhancing Motor Reaction time using Real-Time Functional MRI Neurofeedback of Supplementary Motor Area (SMA) |
| 139 | 3 | Jenny Katharina Zaehring | Alterations of Emotion Regulation in Patients with Borderline Personality Disorder through Real-time fMRI Neurofeedback Training |

To Noh Hall
(Main Hall)

Day3



Neural Mechanism

Clinical

Method, Theory,
Math

Emotion and
Sensorimotor

Brain-Machine
Interface

Cognition and
Perception