

## **HIVE Workshop Program Berlin 27<sup>th</sup> – 28<sup>th</sup> April 2012**

### ***Friday 27<sup>th</sup> April 15:00 – 18:15***

- 15:00 – 15:15 Welcome note:** G. Ruffini, T. Penzel (Barcelona, Berlin)
- 15:15 – 16:00 Keynote**  
K.-R. Müller (Berlin): Brain-Computer and Computer-Brain Interfaces
- 16:00 – 17:00 Oral presentations I**
- 16:00 – 16:15 Axel Thielscher, Alexander Opitz, Susanne Will and Mirko Windhoff: Electric field calculations in brain stimulation: The importance of geometrically accurate head models
- 16:15 – 16:30 Isabelle Merlet, Gwenael Birot, Behnam Molaei-Ardekani, Abeye Mekonnen, Ricardo Salvador, Pedro Cavaleiro Miranda, Giulio Ruffini and Fabrice Wendling: Simulation of scalp EEG signals under tCS
- 16:30 – 16:45 Vera Moliadze, Anna Sotnikova, Christine Freitag and Michael Siniatchkin: Transcranial Direct Current Stimulation and Its Applications in Children
- 16:45 – 17:00 Pieter Buteneers, David Verstraeten, Robrecht Raedt, Dirk Stroobandt, Kristl Vonck, Paul Boon and Benjamin Schrauwen: Real-time detection of epileptic seizures in animal models using reservoir computing
- 17:00 – 17:30 Coffee break and poster viewing**
- 17:30 – 18:15 Oral presentations II**
- 17:30 – 17:45 Aureli Soria-Frisch and Giulio Ruffini: Experimental prototype for MtCS with EEG monitoring
- 17:45- 18:00 Abeye Mekonnen, Ricardo Salvador and Giulio Ruffini: The effects of increasing the number of return electrodes in tCS
- 18:00 – 18:15 Jiansong Xu, Ardeshir Rahman and Marc Potenza: Abstinent smokers did not show significant changes in attention and craving for smoking after anodal stimulation of the prefrontal cortex

### ***Saturday 28<sup>th</sup> April 9:30 – 17:30***

- 09:30 – 10:15 Keynote**  
M.A. Nitsche, M.F. Kuo (Goettingen) Brain stimulation using transcranial direct current to enhance cognitive performance
- 10:15 – 11:15 Oral presentations III**
- 10:15 – 10:30 Mathieu Sprengers, Kristl Vonck, Evelien Carette, Alfred Meurs, Dirk Van Roost and Paul Boon: A decade of experience with deep brain stimulation for patients with refractory medial temporal lobe epilepsy
- 10:30 – 10:45 Evangelia Liouta and Eythymios Angelakis: Transcranial direct and alternating current stimulation in patients with cervical dystonia
- 10:45 – 11:00 Friederike Moeller, Michael Siniatchkin, Julia Jacobs and Ulrich Stephani: Transcranial direct current stimulation in photoparoxysmal response
- 11:00 – 11:15 Michal Bola, Carolin Gall and Bernhard Sabel: Transorbital alternating current stimulation enhances visual evoked response in optic nerve patients.
- 11:15 – 11:45 Coffee break**

### **11:45 – 12:30 Oral presentations IV**

- 11:45 – 12:00 Javier Márquez-Ruiz, Rocío Leal-Campanario, Raudel Sánchez-Campusano, Claudia Ammann, Behnam Molaee-Ardekani, Fabrice Wendling, Pedro C. Miranda, Giulio Ruffini, Agnès Gruart and José M. Delgado-García: Transcranial direct-current stimulation (tDCS) over somatosensory cortex modulates synaptic mechanisms underlying associative learning in behaving rabbits
- 12:00 – 12:15 Javier Márquez-Ruiz, Claudia Ammann, Giulio Ruffini, Agnès Gruart and José María Delgado-García: Peripheral sensory stimulation can be successfully substituted by transcranial alternating current stimulation (tACS) of the somatosensory cortex for associative learning in behaving rabbits
- 12:15 – 12:30 Petra Henrich-Noack, Elena Sergeeva, Nadine Voigt, Sebastian Wagner, Stefanie Lazik, Sylvia Prilloff, Alexander Gorkin, Anton Fedorov and Bernhard Sabel: Effects and Mechanisms of Transorbital Alternating Current Stimulation in a Rodent Model of Axonal Trauma

### **12:30 – 13:15 Keynote**

L. Marshall (Luebeck): Oscillatory-transcranial direct current stimulation to modulate cognitive performance

### **13:15 – 14:30 Lunch**

### **14:30 – 15:15 Oral presentations V**

- 14:30 – 14:45 Helen Morgan, Nick Davis and Martyn Bracewell: Transcranial direct current stimulation of prefrontal cortex does not affect mood or emotional memory retrieval in healthy individuals
- 14:45 – 15:00 Reinhard Weise, Isabella von Mengden, Martin Glos, Carmen Garcia, Najia Nadi and Thomas Penzel: Influence of transcranial slow oscillating current stimulation (tSOS) on electroencephalogram (EEG), sleepiness and alertness
- 15:00 – 15:15 Andrea Santos Portilla, Jeffrey C. Schneider, Mauricio F. Villamar, Colleen Ryan, Magdalena Sarah Volz and Felipe Fregni: Effects of anodal tDCS on cortical excitability in a patient with chronic neuropathic pain following burn injury: a case report

### **15:15 – 16:00 Coffee break and poster viewing**

### **16:00 – 16:45 Keynote**

L. Astolfi (Rome): Imaging the Social Brain: estimation of the cortical activity and connectivity from simultaneous multi-subject EEG recordings

### **16:45 – 17:30 Discussion and conclusion**

#### **Poster presentations**

- Alex Ossadtchi, Alexey Pupyshev, Alexander Fradkov and Yuri Kropotov: Discrete-state dynamical model based neurofeedback
- Torsten Eggert, Hans Dorn, Cornelia Sauter, Malek Bajbouj and Heidi Danker-Hopfe: Effect of transcranial direct current stimulation (tDCS) on sleep-dependent memory consolidation in elderly healthy subjects
- Najia Nadi, Reinhard Weise, Carmen Garcia and Thomas Penzel: Influence of slow oscillating transcranial direct current stimulation on EEG in general and sleep related parameters in healthy subjects