



## **COST ACTION B27**

**“ELECTRIC NEURONAL OSCILLATIONS AND COGNITION  
(ENOC)” Chair: Professor Jordan**

**Pop-Jordanov**

[www.manu.edu.mk/costb27](http://www.manu.edu.mk/costb27)

**8<sup>th</sup> Management Committee Meeting**

**Final ENOC Meeting**

**“Electrical brain oscillations – linking basic and clinical  
research”**

**Zürich, 15-16 May 2009**

### **VENUE**

**University of Zürich**  
Rämistrasse 71, G217,  
Zürich, Switzerland

### **LOCAL ORGANISERS**

**Prof. Daniel BRANDEIS**

Brain Mapping Research Department of Child and  
Adolescent Psychiatry  
University of Zürich  
Neumünsterallee 9/Fach  
CH-8032 Zürich, Switzerland  
Tel: +41 43 499 2763  
Fax: +41 43 499 2604  
[brandeis@kipd.uzh.ch](mailto:brandeis@kipd.uzh.ch)

**Prof. Lutz JÄNCKE**

Psychologisches Institut  
University Zurich  
Binzmühlestrasse 14/1  
8050 Zürich, Switzerland  
Tel. +41 44 635 7151  
[l.jaencke@psychologie.uzh.ch](mailto:l.jaencke@psychologie.uzh.ch)



**COST Action B27  
ELECTRIC NEURONAL OSCILLATIONS AND COGNITION (ENOC)**

**Final MC and WG Meetings – May 15-16, 2009 – University of Zürich, Switzerland(\*)**



Update: 4-Mar-09

**Title: Electrical brain oscillations – linking basic and clinical research**

**Rationale:** The aim of the meeting is to provide a perspective linking innovative basic and clinical studies of electrical neuronal brain oscillations. Together with the recent ENOC Meetings in Crotona and Dubrovnik, it covers the productive achievements of the successful COST action and provides a platform for young scientists to present and discuss related research.

**Scientific Committee:**

- D. Brandeis (Zürich, Switzerland)
- L. Jäncke (Zürich, Switzerland)
- J. Pop-Jordanov (Skopje, Macedonia)
- J. Gruzelier (London)
- H. Heinrich (Munich, Erlangen)
- J. Yordanova (Sofia, Bulgaria)
- A. Rothenberger (Göttingen, Germany)

**Local Organizer:** D. Brandeis & L. Jäncke (University of Zürich, Switzerland)

**Participants:** MC Members, Neuro-COST Action Chairs, Speakers, plus some young scientists

**Location:** University of Zürich, Rämistrasse 71, G217 ,  
<http://www.plaene.uzh.ch/lageplaene/KOLG.html>

## FINAL ENOC MEETING PROGRAMME

<b>Friday, May 15, 2009</b>		
<b>Session 1. Neural oscillations - basic mechanisms</b>		
8:30- 8:45	<i>Opening</i>	D. Brandeis, Zurich J. Pop-Jordanov, Skopje K. Kostelidou, Brussels
8:45-9:45	Localization and connectivity methods for unveiling oscillatory cortical networks	R. D. Pascual-Marqui, Zurich, Switzerland
9:45- 10:45	Brain oscillations forever – neurophysiology in future clinical research	A. Rothenberger Göttingen, Germany
10:45- 11:15	<i>Coffee Break</i>	
11:15- 12:15	Brain Computer Interfaces - Basis and Applications	N. Birbaumer Tübingen, Germany
12:15- 13:30	<i>Lunch</i>	
<b>Session 2. Neural oscillations - clinical perspectives</b>		
13:30 - 15:30	<b>BCI Symposium</b> Asynchronous Non-Invasive Brain-Computer Interaction The Interaction Error Potential: Increasing the Performance of BC-Communication Motor Rehabilitation with BCI Tomographic Neurofeedback	C. Neuper J. R. Millan, Lausanne, Switzerland A. Kreiling, Graz, Austria C. Neuper, Graz, Austria H. Heinrich & M. Liechti, Zürich, Switzerland & Erlangen / Munich, Germany
15:30 - 16:00	<i>Coffee Break</i>	
16:00 - 17:00	Significance of neuroelectric oscillations	C. Herrmann, Magdeburg, Germany
17:00 - 18:00	<i>Poster Session</i>	
20:00 - 23:00	<i>Dinner</i>	
<b>Saturday, May 16, 2009</b>		
<b>Session 3. Complementary NeuroCOST Actions</b>		
08:30 - 09:00	NEUROMATH - Progress Report	F. Babiloni
09:00 - 09:30	Consciousness - Progress Report	A. Cleermans/ Presented by S. Markovska - Simoska
09:30 - 10:00	EMF Emerging Technologies and Health Risk Management - Progress Report	A. McKinlay/ Presented by P.Achermann
10:00 - 10:30	<i>Coffee Break</i>	
10:30 - 11:30	ENOC Draft Final Report	J. Pop-Jordanov W. Klonowski J. Gruzelier C. Neuper
11:30 - 12:00	Concluding discussion	
12:00 - 12:15	Closing of the Meeting	J. Pop-Jordanov, L. Jäncke, D. Brandeis
12:15 - 14:00	<i>Lunch</i>	
14:00 - 16:00	<i>MC-Meeting</i>	



Acknowledgment:  
This meeting is supported by EU COST and University of Zürich

<b>Poster list</b>	
<b>Title</b>	<b>Authors</b>
Behavioral parameters for ADHD and normal adults during face recognition and identification of facial emotions	S. Markovska-Simoska, N. Pop-Jordanova, B. Gjoneska, A. Demerdzieva
Distinct brain inter-structure complexity patterns induced by two types of anesthesia in rat	S. Spasic, S. Kesic, Lj. Rakic, A. Kalauzi, J. Saponjic
Electrical Oscillations and Analog Neurons Computation	M. Bucolo, L. Fortuna, M. Frasca
Empathic Skills and Preattentive Auditory Processes	M.N. Ermutlu, S. Ediz, S. Karamürsel, U. Isoglu-Alkac
Is there intra-subject variability related to stimulus modality effect on evoked responses?	U. Isoglu-Alkac, M.N. Ermutlu, S. Karamürsel
Methylphenidate modulates sensorimotor integration in healthy adults as reflected by neuroelectric oscillations in a Go/NoGo task	Y. Hodzhev, J. Yordanova, M. Diruf, O. Kratz, V. Kolev, H. Heinrich
Multidimensional scaling for visualization of sleep stages using heart rate data	A. Podlipskyte, G. Varoneckas, A. Zilinskas
Resting EEG and Tomographic Neurofeedback – Implications for ADHD Treatment	M. Liechti, R. Drechsler, P. Ianiro, L. Valko, M. Döhnert, S. Maurizio, L. Jäncke, H.-C. Steinhausen, D. Brandeis
Spectral asymmetry of EEG in major depression	A. Suhhova, H. Hinrikus, M. Bachmann, K. Aadamsoo, Ü. Vöhma, J. Lass
The effects of neurofeedback training on adult ADHD	M.N. Ermutlu, S. Karamürsel; U. Isoglu-Alkac