



Batumi Neuroscience Conference

“Function and dysfunction of the nervous system”

August 2-6, 2010

Batumi, Georgia

Invited speakers:

Draguhn, Andreas	(Heidelberg, Germany)
Dugladze, Tamar	(Berlin, Germany)
Gloveli, Tengis	(Berlin, Germany)
Meier, Jochen	(Berlin, Germany)
Schmitz, Dietmar	(Berlin, Germany)
Sigrist, Stefan	(Berlin, Germany)
Vida, Imre	(Glasgow, UK)

Scientific Program

Monday, August 2, 2010

Registration 10:00-16:00
18:00 - Get together party

Tuesday, August 3, 2010

09:00-12:00 Registration

Opening Ceremony

10:00-10:10 **T. Gloveli**
10:10-10:20 **A. Bakuridze**, Rector
10:20-10:30 **M. Makharadze**, Chairmen of the Supreme Council of
Autonomous Republic of Adjara
10:30-10:40 **D. Schmitz**

Plenary lectures: *Chair Tengis Gloveli*

10:40-11:25 **Andreas Draguhn** (Heidelberg) Formation of cell assemblies in the Hippocampus

11:25-12:10 **Stephan Sigrist** (Berlin) Structural and functional plasticity of the cytoplasmic active zone

12:10-14:00 Lunch

Plenary lectures: *Chair Andreas Draguhn*

14:00-14:45 **Tengis Gloveli** (Berlin) Perisomatic inhibition: contribution to gamma oscillations in normal and epileptic brain

14:45-15:30 **Dietmar Schmitz** (Berlin) Role of PRG-1 in synaptic transmission and epilepsy

15:30-16:00 Coffee break

Poster session (I)

16:00-18:00

18:00 Dinner

Wednesday, August 4, 2010

Plenary lectures: *Chair Dietmar Schmitz*

10:00-10:45 **Tamar Dugladze** (Berlin) Morpho-functional features of rhythm generating interneurons in normal and epileptic hippocampus

10:45-11:30 **Imre Vida** (Glasgow) Fast and slow inhibitory interactions in hippocampal networks

11:30-12:00 Coffee break

Oral Presentations: *Chair Teimuraz Ioseliani/Jochen Meier*

12:00-12:20 **Nodar Mitagvaria, Marina Devdariani, Lia Gobechia, Marina Nebieridze** (Tbilisi) General problems of the brain functional activity and local blood flow coupling

12:20-12:40 **Shalva Gurgenzidze, Tengis Gloveli** (Berlin) Characteristics of inhibitory interneurons in the entorhinal cortex

12:45-13:30 Buffet

13:30 Trip to Batumi

Thursday, August 5, 2010

Plenary lectures: *Chair Stefan Sigrist*

10:00-10:45 **Jochen Meier** (Berlin) RNA plasticity in temporal lobe epilepsy

Oral Presentations: *Chair Nodar Mitagvaria*

10:45-11:05 **Eka Lepsveridze, Alexander Dityatev, Melitta Schachner** (Tbilisi, Hamburg, Genova, Piscataway) Synaptic transmission and plasticity at major excitatory hippocampal synapses in mice conditionally deficient in the cell adhesion molecule L1

11:05-11:25 **Tamara Tchelidze, Bernhard J.M. Hess** (Tbilisi, Zürich) Noncommutative control in the rotational vestibuloocular reflex

11:25-12:00 Coffee break

Oral Presentations: *Chair Teimuraz Naneishvili/Manana Dashniani*

- 12:00-12:20 **Magda Alania** (Tbilisi) Mechanism of inhibition of feeding system in the pond snail *Lymnaea stagnalis*
- 12:20-12:40 **Tamar Bikashvili, Tamar Lordkipanidze, Ilia Lazrshvili** (Tbilisi) Effect of pre- and perinatal manganese exposure on brain morphology and behavior in rat pups
- 12:40-13:00 **Tamar Chachibaia** (Tbilisi) Impact of immunity on the neurocrine function

13:00-14:30 Lunch

Poster session (II)

14:30-16:30

16:30-17:00 Coffee break

Oral Presentations: *Chair Eka Lepsveridze*

- 17:00-17:20 **Nodar Mitagvaria, Irma Diasamidze, Zurab Bolkvadze** (Tbilisi, Batumi)
Physiological and morphological changes in cerebral tissue, caused by hyperthermia-induced thrombosis of the cerebral vessels

17:20 Dinner Buffet

Friday, August 6, 2010

Poster session (III)

10:00-12:00

12:00-12:10 Poster Award (*Chair Jochen Meier*)

12:10-12:30 Closing remarks (*A. Bakuridze, N. Mitagvaria, A. Draguhn, D. Schmitz, J. Meier, T. Gloveli*)

12:30 End of meeting

Schedule at a glance

Registration	Monday, August 2, 2010	10.00 - 16.00
	Tuesday, August 3, 2010	09.00 – 12.00
Duration of Presentations	Invited Speakers	30 min (talk) 15 min (disc.)
	Oral Presentations	15 min. (talk) 5 min. (disc.)

List of Speakers

ALANIA	Magda	Tbilisi	GEORGIA	Iv.Javakhishvili Tbilisi State University
BIKASHVILI	Tamar	Tbilisi	GEORGIA	I.Beritashvili Institute of Physiology
CHACHIBAIA	Tamar	Tbilisi	GEORGIA	Georgian Sjogren Association
DRAGUHN	Andreas	Heidelberg	GERMANY	Institute of Physiology and Pathophysiology
DUGLADZE	Tamar	Berlin	GERMANY	Institute of Neurophysiology, Charité
GLOVELI	Tengis	Berlin	GERMANY	Institute of Neurophysiology, Charité Bernstein Center for Computational Neuroscience
GURGENIDZE	Shalva	Berlin	GERMANY	Institute of Neurophysiology, Charité
LEPSVERIDZE	Eka	Tbilisi	GEORGIA	Ilia State University
MEIER	Jochen	Berlin	GERMANY	Delbrück Center for Molecular Medicine, Neuroscience Department
MITAGVARIA	Nodar	Tbilisi	GEORGIA	I.Beritashvili Institute of Physiology
SCHMITZ	Dietmar	Berlin	GERMANY	Neuroscience Research Center Bernstein Center for Computational Neuroscience Cluster of Excellence NeuroCure, Charité
SIGRIST	Stephan	Berlin	GERMANY	Institute for Biology, Free University Berlin Cluster of Excellence NeuroCure, Charité
TCHELIDZE	Tamara	Tbilisi	GEORGIA	Department of Neurology University Hospital of Zürich, Switzerland
VIDA	Imre	Glasgow	UK	Neuroscience and Molecular Pharmacology FBLs, University of Glasgow

This conference has benefited from the financial support from:

- NeuroCure - Cluster of Excellence in Berlin, Germany
- Shota Rustaveli State University, Batumi, Georgia

