

# Scientific Conference with International Participation

*Dedicated to the 70<sup>th</sup> Anniversary of the Institute of Neurobiology, Bulgarian Academy of Sciences, 30 November- 01 December, 2017, Sofia, Bulgaria*

**Thursday, November 30, 2017**

9:00 to 9:30

Registration and Reception

**9:30 am**

**Opening Ceremony**

**Plenary Lectures**

Chair persons: R.Kalfin & V. Kolev

9:45

Presenter: Illana Gonzales (Tel Aviv University, Tel Aviv, Israel)

*From autism to schizophrenia and Alzheimer's disease: shared genes and hope*

10:10

Presenter: David Gurwitz (Tel Aviv University, Tel Aviv, Israel)

*Genomic biomarkers for early detection of Alzheimer's disease*

10:35

Presenter: David R. Simmons (University of Glasgow, Glasgow, UK)

*Sensory sensitivity, neural noise and autism*

11:00

Presenter: Frederica Pessina (Siena University, Siena, Italy)

*Effects of U373-MG astrocytoma cells conditioned medium on differentiated IMR-32 neuroblastoma cells subjected to hypoxia*

11:25

Presenter: Aristides Tsatsakis (University of Crete, Voutes Campus, Heraklion, Crete)

*Risks from real life exposures the ageing process and modulation*

11:50

Presenter: Vasil Kolev, (Institute of Neurobiology, BAS, Bulgaria)

*Synchronization of fronto-parietal oscillatory networks as a signature of visual awareness*

12:15

Presenter: Stanislav Yanev (Institute of Neurobiology, BAS, Bulgaria)

*Neurotoxicological studies in Institute of Physiology/Neurobiology: some of the most distinguished achievements*

**12:40 to 13:45**

**Lunch Break**

**Neurophysiology Session**

Chair persons: V. Grigorova & M. Antonova

13:45

Presenter: Radostina Alexandrova

*Autophagy and brain: the challenges of hope*

14:00

Presenter: Mihail Tsonev

*Effects of classical music on heart rate variability*

14:15

Presenter: Nikola Tomov

*Intimate relationship between microglia and grafted dopaminergic cells*

14:30

Presenter: Elena Todorova

*Homeopathic remedy action over autonomic nerve system*

14:45

Presenter: Rositsa Sandeva

*Plasma NPY and metabolic status of rats after sweetener consumption*

15:00

Presenter: Gergana Sandeva

*Changes in plasma NPY and improvement of some metabolic indicators after antioxidant treatment of rats on a high fructose diet*

**15:15 to 15:45**

**Break**

**Poster Session**

Chair persons: A. Tolekova & D. Atanasova

15:45

Presenter: Galina Staneva

*Bone as an endocrine organ*

15:50

Presenter: Ventsislava Dimitrova

*Vitamin D and its regulation of pancreatic secretion*

15:55

Presenter: Nikolay Genov

*Idiopathic pulmonary fibrosis*

16:00

Presenter: Hayley Bogaerts

*Effects of dehydration on brain functions*

16:05

Presenter: Tsvetoslava Hristozova

*Post-concussion syndrome*

16:10

Presenter: Delyan Terziev

*The role of mirror neurons in building a mental simulation*

16:15

Presenter: Steliana Borisova

*Gaze distribution in older adults during walking in a virtual reality pedestrian precinct*

**16:20 to 16:45**

**Break**

**Psychophysiology  
Session**

Chair persons: J. Yordanova & N. Bocheva

16:45

Presenter: Bilyana Genova

*Drift diffusion modeling of reaction time: effects of information reliability and age on decision making*

17:00

Presenter: Milena Mihaylova

*Excessive neural variability in some developmental disorders*

17:15

Presenter: Roumen Kirov

*Spotlight of new concepts in sleep and cognitive neuroscience: the role of dissociative consciousness and predictive coding*

**17:30 to 17:45**

**Break**

**Poster Session**

Chair persons: J. Yordanova & N. Bocheva

17:45

Presenter: Miroslava Stefanova

*Motion discrimination and eye movements behavior of children with developmental dyslexia*

17:50

Presenter: Juliana Dushanova

*Study of auditory processing of children with dyslexia*

17:55

Presenter: Ivan Hristov

*Contrast sensitivity to sinusoidal gratings and visual-spatial attention in developmental dyslexia*

18:00

Presenter: Miglena Lyuckanova

*Hemispheric specialization in implicit sequence learning in 6-8 year-old children*

18:05

Presenter: Plamenka Nanova

*Developmental gender differences in selective attention: An ERP study*

18:10

Presenter: Milena Staneva

*Appropriate semantic priming could improve adaptation of visual saccades in seniors*

18:15

Presenter: Lora Lyamova

*ERP correlates of memory load during pro-active mode of processing*

## Friday, December 01, 2017

### Neuropharmacology & Neurotoxicology Session

Chair persons: R. Zamfirova & J. Chekalarova

Presenter: Daniela Pechlivanova

9:45

*Influence of the chronic LOSARTAN treatment on the TYPE 2 Diabetes Mellitus-induced behavioral changes in wistar and spontaneously hypertensive rats*

Presenter: Jana Tchekalarova

10:00

*Agomelatine exerts a neuroprotection against Kainate-induced epileptogenesis without preventing development of status epilepticus and spontaneous seizure activity in wistar rats*

Presenter: Almira Georgieva

10:15

*Oxidative stress parameters in MDBK cells, infected by Herpes Simplex virus-1*

Presenter: Magdalena Kondeva-Burdina

10:30

*Evaluation of the antioxidant potential of lyophilized extract of Clinopodium Vulgare (Lamiaceae) in the brain of spontaneously hypertensive rats (SHRs)*

Presenter: Magdalena Platikanova

10:45

*Neurotoxicity of some heavy metals – lead, mercury, manganese*

Presenter: Petya Ganova

11:00

*Janus kinase inhibitors and bone remodeling*

**11:15 to 11:30**

**Break**

### Poster Session

Chair persons: D. Pechlivanova & L. Tancheva

Presenter: Zafer Sabit

11:30

*Effects of Angiotensin II and Losartan infused into amigdala on learning and memory in rats with a model of depression*

Presenter: Roman Tashev

11:35

*Modulation of nociception by Angiotensin II type 1 receptors antagonist Losartan into amigdala of rats with a model of depression*

Presenter: Kalina Ilieva

11:40

*Chronic Agomelatine treatment attenuates anhedonia, memory impairment and beta-amyloid accumulation in a rat model of sporadic Alzheimer's disease*

Presenter: Natasha Ivanova

11:45

*Agomelatine treatment corrects depressive-like behavior induced by chronic constant light exposure through modulation of circadian rhythm of melatonin release*

Presenter: Delyan Terziev

11:50

*The relationship between vitamin D and the renin-angiotensin system*

Presenter: Galya Stavreva

11:55

*In vitro motor activity of longitudinal and circular muscles in rat distal colon and DNBS-induced cells*

Presenter: Martin Malakov

12:00

*New methods for therapy of cardiogenic disease*

12:05	<p>Presenter: Nikolay Genov</p> <p><i>The Space method for tumor treatment</i></p>
12:10	<p>Presenter: Magdalena Kondeva-Burdina</p> <p><i>Effects of newly synthesized derivatives of caffeine-8-thioglycolic acid on human neuroblastoma cell line SH-SY5Y</i></p>
12:15	<p>Presenter: Yana Goranova</p> <p>Microsurgery model in small laboratory animals for experimental research of substances with natural origin and nerve agents</p>
15:00	<p><b>Official assembly dedicated to the 70th anniversary of the Institute of Neurobiology</b></p>