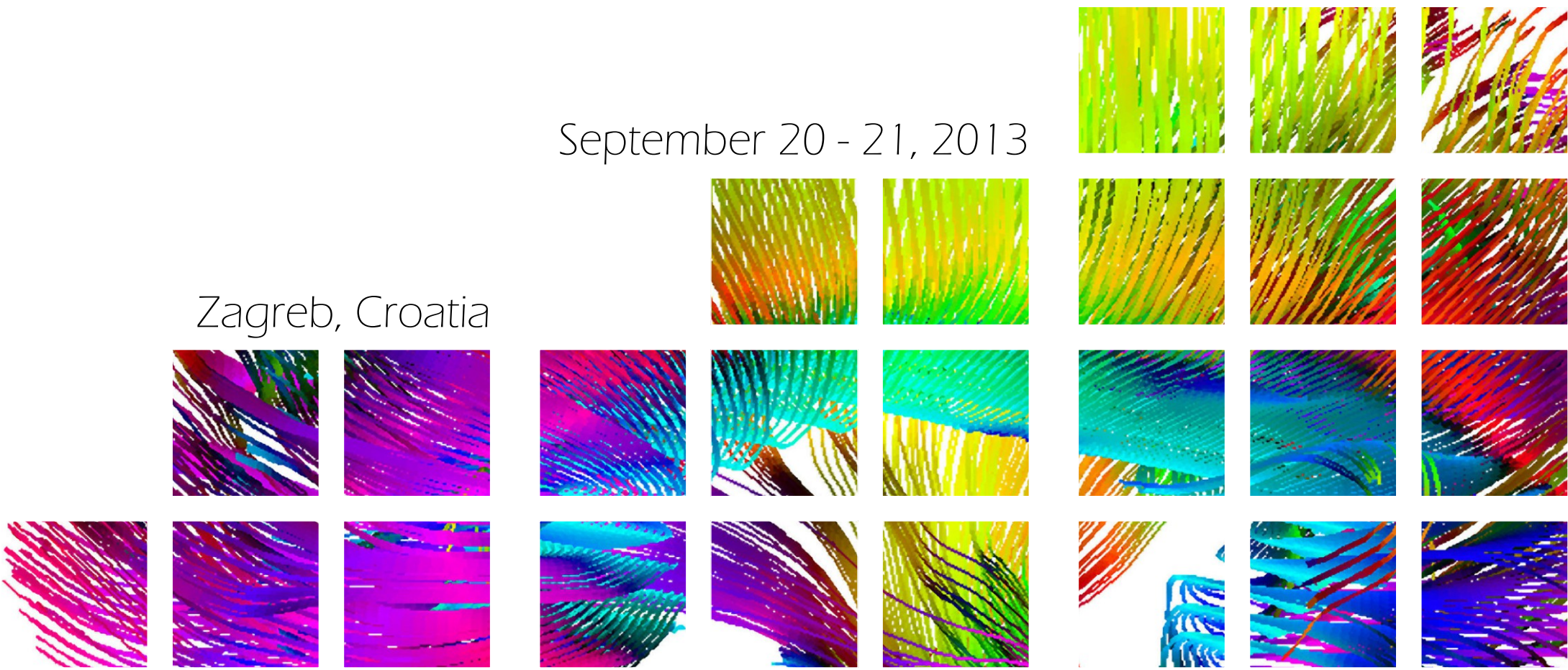


4th Croatian Neuroscience Congress

September 20 - 21, 2013

Zagreb, Croatia



FRIDAY, 20.09.2013.

I. Opening ceremony – Revival Hall, HAZU

- 10.30 – 11.15 Introductory remarks of CSfN president; HAZU President welcome speech; Ceremonial presentation of CSfN awards
- 11.15 – 11.30 Lege Artis Choir
- 11.30 – 12.30 Presidential lecture – Pasko Rakic: Neuronal Migration and Brain Map Formation
- 12.35 – 13.05 IBRO representative special lecture – Ante Padjen: Science and/in Society
- 13.15 – 14.00 Opening ceremony cocktail

II. Lectures and posters – School of Medicine

- 15.00 – 15.20 Milos Judas: "Transcriptome of the developing human cerebral cortex"
- 15.25 – 15.45 Marijan Klarica: „Effect of body position on cerebrospinal fluid movement and hydrostatic pressure gradient"
- 15.50 – 16.10 Goran Simic: "Functional neuroanatomy of dementia syndrome"
- 16.10 – 16.40 Coffee break & refreshments
- 16.40 – 17.10 Round table: Natasa Jovanov Milosevic - Report on activities of FENS Committee for Animals in Research (CARE); Branka Bukovic Sosic - Research on Animals following the accession of Croatia to the European Union
- 17.15 – 19.00 Poster presentations and discussions I. - Croatian Institute for Brain Research

III. Social programme

- 20.00 – 21.30 Conference dinner (Croatian Pharmacological Society and Croatian Society for Neuroscience); additional fee "The night when brains are glowing" party (free entrance for conference participants)

SATURDAY, 21.09.2013.

I. Lectures and posters – Institute for Brain Research

- 09.30 – 11.15 Poster presentations, discussions II, coffee and refreshments
- 11.15 – 11.35 Maja Valic: "The effects of repeated episodes of hypoxias on respiration"
- 11.40 – 12.00 Srecko Gajovic: "Molecular regulation of inflammation and the consequences of ischemic injury in the mouse brain"
- 12.05 – 12.25 Dinko Mitrecic: "Application of stem cell technology in stroke"
- 12.30 – 13.30 Farewell ceremony and the best posters awards; cocktail & refreshments

POSTER SESSIONS

- P1 Molecular neuroscience
- P2 Basic Neuroscience
- P3 Neurodevelopmental basis of cognitive, mental and neurological disorders
- P4 Cerebrospinal pathophysiology
- P5 Neuroethics
- P6 Neurodegenerative disorders
- P7 Cognitive Neuroscience
- P8 Clinical Neuroscience
- P9 Neuropharmacology and pharmacology
- P10 Special session

IMPORTANT DATES

- Early registration and abstract submission **15/07/2013**
- CIBR dormitory rooms reservation **09/09/2013**
- Registration cancellation **16/09/2013**

Organisation committee:

Branka Bartolic, Maja Cepanec, Valentina Galkovski, Marija Heffer, Pero Hrabac, Dubravka Hranilovic, Goran Ivkic, Milos Judas, Svjetlana Kalanj Bognar, Zeljka Krsnik, Natasa Jovanov Milosevic, Zdravko Petanjek, Elizabeta Radonic, Mirna Raguz, Gordana Rubesa, Natasa Simic, Maja Valic, Mario Vuksic.

Scientific committee:

Members of Executive Committee of Croatian Society for Neuroscience (Gojko Buljat, Milos Judas, Svjetlana Kalanj Bognar, Ivica Kostovic, Marta Ljubescic, Vlatka Mejaski Bosnjak, Darko Oreskovic, Mario Vuksic) and members of Dpt. of Medical Sciences of Croatian Academy of Sciences and Arts (Slavko Cvetnic, Ivo Cikes, Dragan Dekaris, Vida Demarin, Vladimir Goldner, Drago Ikic, Ivica Kostovic, Zvonko Kusic, Josip Madic, Davor Milicic, Marko Pecina, Ivan Prpic, Zeljko Reiner, Danijel Rukavina, Marko Saric, Zdenko Skrabal, Eugen Topolnik, Teodor Wikerhauser).

Programme committee:

Gojko Buljat, Darko Chudy, Lipa Cicin Sain, Sanja Hajnsek, Neven Henigsberg, Milos Judas, Petra Kalember, Marijan Klarica, Ivica Kostovic, Zeljka Krsnik, Vlatka Mejaski Bosnjak, Dinko Mitrecic, Darko Oreskovic, Milan Rados, Selma Supek, Goran Simic, Meri Tadinac, Maja Valic.

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ORGANIZERS



Croatian Society for Neuroscience



Croatian Institute for Brain Research
School of Medicine
University of Zagreb



LIST OF POSTERS

POSTER PRESENTATIONS I.

Friday, September 20th 2013

17.15 - 19.00

P1 Molecular neuroscience

PP01

The association of GRIK3 polymorphism with alcoholism in the subjects of Croatian origin

Kuzman B., Morić M., Nedić Erjavec G., Nikolac Perković M., Nenadić K., Borovečki F., Mück-Šeler D., Pivac N., Švob Štrac D.

PP02

Long-term changes in expression of calcium/calmodulin-dependent protein kinase II in dorsal root ganglia neurons of STZ-diabetic rats

Ferhatović L., Jeličić A., Borić M., Banožić A., Sapunar D., Puljak L.

PP03

Expression of 5HT-related genes after perinatal treatment with 5HT agonists

Blažević S., Zlatar I., Kvestak D., Brizić M., Hranilović D.

PP04

The association of GABA-A receptor alpha2 subunit gene (GABRA2) with alcohol-related suicidal behaviour

Švob Štrac D., Nedić Erjavec G., Nikolac Perković M., Nenadić Sviglin K., Mück-Šeler D., Pivac N.

PP05

Brain metastases from lung cancer show frequent changes of E-cadherin, APC and beta-catenin genes

Pećina-Šlaus N., Zeljko M., Kafka A., Tomas D.

PP06

Opioid system genes in alcoholism: A case - control study in Croatian population

Čupić B., Štefulj J., Zapletal E., Matošić A., Bordukalo-Nikšić T., Čičin-Šain L., Gabrilovac J.

PP07

DNA methylation of serotonin receptor 2A gene promoter in control and autistic subjects

Hranilović D., Blažević S., Zill P., Štefulj J.

PP08

Analysis of formalin fixation influence on ganglioside composition of calf brain

Pašalić T., Fabris D., Vukelić Ž.

PP09

Neuronal damage and recovery in the thalamus following traumatic brain injury in the rat

Dolenec P., Pilipović K., Rajič J., Mršić-Pelčić J., Župan G.

PP10

Distribution of complex gangliosides in brains of catfish and perch

Viljetić B., Labak I., Blazetić S., Ivić V., Heffer M.

PP11

Neuroplastin: from neurodevelopment to neurodegeneration

Mlinac K., Gačić M., Ilić K., Jovanov Milošević N., Šimić G., Kalanj Bognar S.

PP12

STAM2 protein, a member of the endosome-associated complex ESCRT-0, is localized in neuronal nucleus

Ćurlin M., Kapuralin K., Mitrečić D., Gajović S.

PP13

Corticogenesis controlling genes in the brain repair and regeneration after ischemic lesion in the mouse

Gorup D., Gajović S., De Rocha M.

PP14

Oxidative stress markers in various brain regions of mice on a high cholesterol diet

Dominko K., Landeka I., Horvat-Knežević A., Benković V., Oršolić N., Đikić D.



PP15

Genetic variants of the dopaminergic system and alcohol dependence and alcohol abuse-related phenotypes

Nedić Erjavec G., Nenadić Sviglin K., Nikolac Perković M., Mück-Šeler D., Pivac N.

PP16

3D Culture of mouse neuronal stem cells in calcium alginate beads

Lovrić M., Ferhatović L., Kosi N., Alić I., Brkić L., Polšek D., Casarosa S., Gajović S.

P2 Basic neuroscience

PP17

The role of anesthetics in the phrenic long term facilitation in rats

Pecotić R., Valić M., Pavlinac Dodig I., Carev M., Karanović N., Đogaš Z.

PP18

Differential expression of obesity-related genes in hypothalamus of Wistar-Zagreb 5HT rats

Štefulj J., Kesić M., Čičin-Šain L.

PP19

Nonradial migratory stream from cortical hem during early fetal period in primates

Hladnik A., Jovanov Milošević N., Esclapez M., Petanjek Z.

PP20

Regional differences in dendritic morphology and spine density of striatal medium spiny neurons in Foxp2 mice

Bičanić I., Bornschein U., Enard W., Hevers W., Paabo S., Petanjek Z.

PP21

Organization of the human hippocampal marginal zone during prenatal development

Vukšić M., Krsnik Ž., Kostović I.

PP22

Sublaminar organization and developmental changes of the marginal zone in the human neocortical pallium

Krsnik Ž., Vukšić M., Kostović I.

PP23

The changes in ganglioside composition and distribution in the brain of rainbow trout (*Oncorhynchus mykiss*) and common carp (*Cyprinus carpio*) during seasonal adaptation

Pavić V., Has-Schön E., Bogut I., Heffer M.

PP24

Expression of glial cell markers in human foetal Leydig cells

Ježek D.

PP25

Difference in behavioral phenotype between *B4Galnt1* knockout and cuprizone induced demyelination mice

Tot O.K., Mrđenović S., Viljetić B., Degmečić I.V., Bohaček I., Heffer M.

PP26

Natriuretic peptides and bradykinin in mouse ischemic brain injury

Dobrovojević M., Špiranec K., Erjavec I., Gorup D., Habek N., Hirsch J.R., Forssmann W.G., Sindić A.

PP27

Alternations in number of calcium-binding striatal and hippocampal parvalbumin and calbindin D28k interneurons in the brain of *St3Gal2*, *St3Gal3* and double knockout mice

Blažetić S., Viljetić B., Labak I., Balog M., Ivić V., Schnaar R.L., Heffer M.

PP28

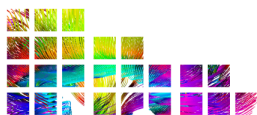
Nucleolar protein Nop2 is expressed in neurons and astrocytes of the adult mouse brain

Kolačević M., Vrsaljko N., Kosi N., Gajović S., Mitrečić D.

PP29

Application of neural stem cells originating from THY1-YFP mouse strain in transplantation experiments

Alić I., Kosi N., Kapuralin K., Gorup D., Gajović S., Mitrečić D.



PP30

Sleep and addiction in *Drosophila*: Role of dopamine in the nervous system arousal

Andretić Waldowski R., Greenspan R.

PP31

Quantification of calretinin interneurons in the medial orbital region of the rat orbitofrontal cortex

Džaja D., Petanjek Z., Esclapez M.

PP32

Expression of tenascin C in the subplate zone of human telencephalon during prenatal development

Lukić Lj., Petrović D., Krsnik Ž., Kostović I., Jovanov Milošević N.

PP33

Expression pattern of extracellular neurocan in the human fetal neostriatum

Mavrović M., Darmopil S., Kostović I., Jovanov-Milošević N.

P3 Neurodevelopmental basis of cognitive, mental and neurological disorders

PP34

Effect of perinatal treatment with serotonin agonists on immunological and hematological parameters in adult rats

Lipovec V., Horvat Knežević A., Erhardt J., Blažević S., Hranilović D.

PP35

Biochemical and pharmacological characterisation of the serotonin transporter (SERT) in primary trophoblasts of the human placentas

Kesić M., Čičin-Šain L., Desoye G., Wadsack C., Panzenboeck U., Štefulj J.

PP36

Prenatal alcohol exposure influences Notch and Ikaros transcription factors

Paradžik M., Novak S., Mokrović G., Heckel D., Stipić J., Čičin-Šain L., Antica M.

PP37

Role of BMP signaling in pancreas versus liver fate decision

Pongrac I.M., Spagnoli F.M.

P4 Cerebrospinal pathophysiology

PP38

Cerebrospinal fluid (CSF) concentrations of neurotransmitter metabolites as a marker of CSF volume changes

Maraković J., Chudy D., Klarica M., Orešković D.

PP39

Compensated hyperosmolarity of cerebrospinal fluid and development of hydrocephalus

Klarica M., Miše B., Vladić A., Radoš M., Orešković D.

PP40

Volumetric analysis of cerebrospinal fluid and brain parenchyma in patient with hydranencephaly and macrocephaly

Radoš M., Mučić-Pucić B., Nikić I., Raguž M., Galkowski V., Mandić D., Orešković D., Klarica M.

P5 Neuroethics

PP41

Implications of advances in neuroscience and technology

Erhardt J.



POSTER PRESENTATIONS II.

Saturday, September 21st 2013

9.30 - 11.15

P6 Neurodegenerative disorders

PP42

Selective activation of the prefrontal cortex: Preclinical marker for Alzheimer's disease?

Josef Golubić S., Čaklović L., Aine C.J., Stephen J.M., Adair J.C., Knoefel J.M., Supek S.

PP43

Chromosome mis-segregation and aneuploidy including trisomy 21 in neurodegenerative tauopathies, frontotemporal dementia and Niemann-Pick disease

Granić A., Caneus J., Dickson D., Potter H.

PP44

CSF tau protein phosphorylated at threonine 231 as a potential biomarker of early stages of Alzheimer's disease

Babić M., Kustek I., Klepac N., Borovečki F., Hof P.R., Šimić G.

PP45

Alzheimer Croatia – serving people with dementia since 1999

Mimica N., Šimić G., Dajčić M., Treščec-Ivičić m., Dajčić T.

PP46

Inner nuclear membrane protein Asi2 is targeted for proteasomal degradation in the nucleus by the components of the ERAD pathway

Boban M., Foisner R.

PP47

Polymorphisms of the brain-derived neurotrophic factor and cognitive impairment in patients with Alzheimer's disease and mild cognitive impairment

Nikolac Perković M., Borovečki F., Klepac N., Hajnšek S., Mück-Šeler D., Pivac N.

P7 Cognitive neuroscience

PP48

The relationship between sleep habits and academic performance in dental students in Croatia

Lušić L., Valić M., Pecotić R., Peroš K., Đogaš Z.

PP49

Neuromagnetic study of the auditory gating phenomenon

Josef Golubić S., Aine C.J., Stephen J.M., Adair J.C., Knoefel J.E., Supek S.

PP50

Attentional modulation of the M50 gating network

Josef Golubić S., Sušac A., Huonker R., Haueisen J., Supek S.

PP51

Cognitive development related to anthropometric parameters in preschool children born after asymmetrical intrauterine growth retardation

Šimić Klarić A., Kolundžić Z., Galić S., Mejaški Bošnjak V.

PP52

Unique, just like everyone else – an experimental study on consistent individual differences in captive common marmosets (*Callithrix jacchus*)

Šlipogor, V., Gunhold, T., Tadić, Z., Bugnyar T.

PP53

The lexical feature of imageability in the mental lexicon of people with aphasia

Biočina Z., Čolović N., Erdeljac V., Feldman E., Jelovac T., Masnikosa I., Willer-Gold J.



PP54

Association between serum 25(OH)D and the risk of cognitive decline in the very old: The Newcastle 85+ study

Granić A., Hill T., Kirkwood T., Davies K., Collerton J., Martin-Ruiz C., von Zglinicki T., Saxby B.K., Wesnes W., Collerton D., Mathers J.C., Jagger C.

PP55

Semantic processing in people with nominal and motor aphasia associated with different stimuli: picture, written or spoken word

Dragojević E., Drča N., Kovač H., Lendić A., Radić I., Rovčanić F., Sekulić M., Munivrana, B., Erdeljac, V.

PP56

Body height and mating strategy – Taller men pursue more short-term relationships

Pavela I., Banai B.

PP57

Performance on verbal fluency and mental rotation task in morning and evening types

Majić M., Šimić N., Gregov Lj.

PP58

The relationship between jealousy and extraversion in men and women

Mlakić T., Šimić N., Nikolić M.

PP59

Changes in the prevalence of EEG waves during performing psychomotor tasks of different complexity

Nikolić M., Gregov Lj., Proroković A.

PP60

Attention modulates the earliest visual neuromagnetic responses

Sušac A., Josef Golubić S., Bubić A., Huonker R., Gotz T., Haueisen J., Supek S.

PP61

Measuring eye movements during simple equation solving

Sušac A., Bubić A., Kaponja J., Vrbanc A., Planinić M., Palmović M.

PP62

Childhood apraxia of speech – same symptoms, different etiology

Miler I., Blaži D., Zaninović I.

PP63

What is the role of executive functions in language acquisition?

Šimleša, S. , Cepanec, M., Ljubešić, M.

PP64

Masked priming paradigm reveals automatic processes in visual word recognition: An ERP study

Palmović M., Kuvač Kraljević J., Hržica G., Padovan N., Jerbić A.B.

P8 Clinical neuroscience

PP65

Dyskinetic cerebral palsy in asphyxiated term neonates – the challenge to identify mild lesions

Mejaški Bošnjak V., Kraegelohe-Mann I., Daković I., Marjanović J., Grmoja T.

PP66

Prediction of motor outcome in infants with perinatal brain damage: the role of fidgety movements assessment

Katušić A., Gagula J.

PP67

Visual problems in premature infants

Alimović S.

PP68

Schizencephaly exposed at microsurgical operation of congenital Sylvian arachnoid cyst in a pediatric patient

Gjurašin M., Mejaški Bošnjak V., Petanjek Z., Marjanović J., Grmoja T., Roić G., Popović Lj.



PP69

Voxel – based morphometry in chronic schizophrenia

Ružić Baršić A., Antulov R., Rubeša G., Miletić D.

PP70

Differences in pain estimation between patients, nurses and doctors

Šprljan Alfired R., Kordić K., Bačić Baronica K.

PP71

A case of Melkersson-Rosenthal syndrome associated with oligodontia in 15 years old girl

Krakar G., Marn B., Pustišek N., Ulamec M., Gojmerac T., Mejaški Bošnjak V.

PP72

Physiology of chronic spinal pain syndromes

Branko Uhoda

PP73

Functional reorganization of the primary motor cortex in a patient with a large arteriovenous malformation

Radoš M., Nikić I., Radoš M., Kostović I., Hof P.R., Šimić G.

P9 Neuropharmacology and pharmacology

PP74

Effect of chronic fluoxetine treatment on serotonin transporter density in the brain of an obx animal model of depression - an autoradiographic study

Kovačević T., Skelin I., Dikšić M.

PP75

Harmful potential of preventive quercetin consumption: effects on p19 neurons

Jazvinščak Jembrek M., Cipak Gašparović A., Vlainić J., Žarković N., Oršolić N.

PP76

Benzodiazepine site agonists: diazepam vs. zolpidem (*in vitro* study)

Vlainić J., Jazvinščak Jembrek M., Švob Štrac D., Peričić D.

PP77

Design, synthesis and *in vitro* activity of AT1 angiotensin II receptor antagonists based on the novel 5-[2-(tetrazole-5-yl)phenyl]thiophenes

Lovrić M., Tvrdeić A., Cepanec I., Litvić M.

PP78

Acyl chain-dependent effect of lysophosphatidylcholine on cyclooxygenase (COX)-2 expression in endothelial cells

Brkić L., Riederer M., Frank S.

PP79

Protective effect of 20-HETE inhibition in a model of oxygen-glucose deprivation in hippocampal slice cultures

Renić M., Roman R.J.

P10 Special session

PP80

Therapeutic riding-antigravity walk

Banović G.

PP81

Centre for Regenerative Neuroscience – A New Multipurpose Multi-modal Research Facility

Skokić S., Gajović S.