

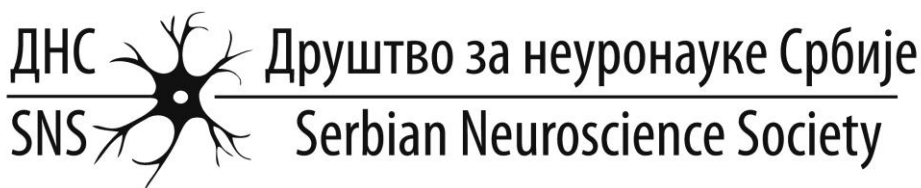
ДНС Друштво за неуронауке Србије
SNS Serbian Neuroscience Society



**7th CONGRESS OF SERBIAN
NEUROSCIENCE SOCIETY
with international participation**

**VII Конгрес Друштва за неуронауке
Србије са међународним учешћем**

Serbian Academy of Arts and Sciences, Knez Mihailova 35/II
Српска академија наука и уметности, Кнез Михаилова 35/II
October 25-27, 2017/ 25-27 октобар 2017



PROGRAMME

**7th CONGRESS OF SERBIAN
NEUROSCIENCE SOCIETY
with international participation
October 25-27, Belgrade, Serbia**

CONGRESS ORGANIZERS

ДНС Друштво за неуронауке Србије
SNS Serbian Neuroscience Society



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Ministry of Education, Science and Technological Development of
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International Brain Research Organization (IBRO)
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Belgrade, Knez Mihajlova 35

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INVITED SPEAKERS

Pavel Balaban

Institute of Higher Nervous Activity and
Neurophysiology, Russian Academy of Sciences,
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Stefan Gold

Department of Psychiatry and Psychotherapy,
Campus Benjamin Franklin, Charité University of
Medicine Berlin, Berlin, Germany

Melissa Vos

Institute of Neurogenetics, University of Lubeck,
Lubeck, Germany

Marija Kundaković

Department of Biological Sciences, Fordham
University, Bronx, New York, USA

Mirjana Maletić-Savatić

Departments of Pediatrics and Neuroscience, Baylor
College of Medicine, Houston, Texas, USA

Jelena Radulović

Department of Psychiatry and Behavioral Sciences,
Department of Pharmacology, Northwestern
University, Feinberg School of Medicine, Chicago, IL,
USA

Jelena Popić

Department of Biochemistry, Rosalind and Morris
Goodman Cancer Research Centre, McGill University,
Montreal, Quebec, Canada

Jelena Radulović

Department of Psychiatry and Behavioral Sciences,
Department of Pharmacology, Northwestern
University, Feinberg School of Medicine, Chicago, IL,
USA

Boris Rogelj

Department of Biotechnology, Jožef Stefan Institute,
Faculty of Pharmacy, University of Ljubljana,
Ljubljana, Slovenia

Tamara Major

Center for Basic and Translational Neuroscience,
Copenhagen, Denmark

Mihai Moldovan

Department of Neuroscience and Pharmacology,
Faculty of Health Sciences, University of Copenhagen,
Copenhagen, Denmark; Division of Physiology and
Fundamental neuroscience, "Carol Davila" University
of Medicine and Pharmacy, Bucharest, Romania

Maja Jagodić

Department of Clinical Neuroscience, Center for
Molecular Medicine, Karolinska Institute, Stockholm,
Sweden

Emel Ulupinar

Department of Anatomy, Medical Faculty, Eskisehir
Osmangazi University, Eskisehir, Turkey

Paul Bolam

MRC Brain Network Dynamics Unit, University of
Oxford, United Kingdom

Pavle Andus

Center for Laser Microscopy, Faculty of Biology,
University of Belgrade, Serbia

Nina Japundžić-Žigon

Institute of Pharmacology, Clinical Pharmacology and
Toxicology, Faculty of Medicine, University of
Belgrade, Serbia

Ivana Novaković

Institute of Human Genetics, Faculty of Medicine,
University of Belgrade, Serbia

Marija Dulović

Institute of Medical and Clinical Biochemistry, Faculty
of Medicine, University of Belgrade, Serbia

Željka Stanojević

Institute of Medical and Clinical Biochemistry, Faculty
of Medicine, University of Belgrade, Serbia

Miroslav Adžić

Department of Molecular Biology and Endocrinology,
Vinča Institute of Nuclear Sciences, University of
Belgrade, Serbia

Đorđe Miljković

Department of Immunology, Institute for Biological
Research “Siniša Stanković”, University of Belgrade,
Serbia

Nađa Marić Bojović

Clinic for Psychiatry, Clinical Centre of Serbia; Faculty
of Medicine, University of Belgrade, Serbia

Nataša Petronijević

Institute of Medical and Clinical Biochemistry, Faculty
of Medicine, University of Belgrade, Serbia

Jasna Šaponjić

Department of Neurobiology, Institute for Biological
Research “Siniša Stanković”, University of Belgrade,
Serbia

Elka Stefanova

Clinic of Neurology, Faculty of Medicine, University of
Belgrade, Serbia

Olivera Stanojlović

Institute of Medical Physiology, Faculty of Medicine,
University of Belgrade, Serbia

Efstratios K. Kosmidis

Laboratory of Physiology, Department of Medicine,
Aristotle University of Thessaloniki, Greece

Nadežda Nedeljković

Institute for Physiology and Biochemistry, Faculty of
Biology, University of Belgrade, Serbia

Nataša Lončarević-Vasiljković

Department of Neurobiology, Institute for Biological
Research “Siniša Stanković”, University of Belgrade,
Serbia

Vesna Pešić

Department of Neurobiology, Institute for Biological
Research “Siniša Stanković”, University of Belgrade,
Serbia

PROGRAMME

Thursday, October 26, 2017

9:00-9:30 **Registration**

9:30-9:45 **Opening remark** – Acad. Ljubisav Rakić

9:45-13:30 SYMPOSIUM 1:Translational approach in neurological disorders

Chairs: Ivanka Marković, Boris Rogelj

9:45-10:10 **Pathogenic mechanism of C9ORF72 in ALS and FTL D**

Boris Rogelj

10:10-10:35 **Next generation sequencing in dystonia - our experience**

Ivana Novaković

10:35-11:00 **Pluripotent stem cells in regenerative medicine: modeling neurodegenerative diseases using human embryonic stem cells (hESCs) and induced pluripotent stem cells (hiPSCs)**

Tamara Major

11:00-11:25 **Mechanisms of hyperexcitability: translational standpoint**

Olivera Stanojlović

11:25-11:50 **Coffee break**

Chairs: Sanja Peković, Milena Stevanović

11:50-12:15 **Mitochondrial cardiolipin couples electron transport between ubiquinone and Complex I to rescue PINK1 deficiency**

Melissa Vos

12:15-12:40 **Mutant WDR45 links neurodegeneration with brain iron accumulation to impaired autophagy, mitochondrial dysfunction and oxidative stress**

Marija Dulović

12:40-13:05 **Functional mapping of the CA1 hippocampal region using optogenetics.**

Efstratios K. Kosmidis

13:05-13:30 **Metformin ameliorates core deficits in a mouse model of fragile X syndrome**

Jelena Popić

13:30-15:30 **Lunch break and poster session**

15:30-17:35 **SYMPOSIUM 2: Neuroinflammation**

Chairs: Aleksandra Isaković, Stefan Gold

- 15:30-15:55 **Neuroinflammation and depression: Lessons from multiple sclerosis**
Stefan Gold
- 15:55-16:20 **Applied epigenomics: insights into the pathogenesis of multiple sclerosis**
Maja Jagodić
- 16:20-16:45 **Glial cells as biomarkers of neuroinflammation in amyotrophic lateral sclerosis**
Pavle Anđus
- 16:45-17:10 **Neuroprotective arylpiperazine dopaminergic/serotonergic ligands suppress experimental autoimmune encephalomyelitis in rats.**
Željka Stanojević
- 17:10-17:35 **Switching off neuroinflammation: ectonucleotidases as potential targets for pharmacological therapy**
Nadežda Nedeljković
- 17:35-18:00 **Coffee break**
- 18:00-19:40 **SYMPOSIUM 3: Maintaining homeostasis: interaction between CNS and periphery**

Chairs: Nina Japundžić-Žigon, Ivana Bjelobaba

18:00-18:25 **The level of expression of vasopressin and oxytocin receptors in the paraventricular nucleus of the hypothalamus determine cardiovascular responsiveness to stress**

Nina Japundžić-Žigon

18:25-18:50 **Glucocorticoid receptor alpha translational isoforms as mediators of early adversities and negative emotional states in healthy subjects**

Miroslav Adžić

18:50-19:15 **The role of gut microbiota and gut-associated lymphoid tissue in resistance to CNS autoimmunity**

Đorđe Miljković

19:15-19:40 **The newly discovered effects of fish oil supplementation on AD pathology. What's next?**

Nataša Lončarević-Vasiljković

19:40-20:00 **Presentation of SNS Student Section: Jelena Dragicevic i Bojana Bjegojevic**

Friday, October 27, 2017

9:00- 11:30 SYMPOSIUM 4: Brain and behavior

Chairs: Nadežda Nedeljković, Ivan Milenković

- 9:00-9:25 **Encoding Episodic Memories in Discrete Hippocampal-Cortical Circuits**
Jelena Radulović
- 9:25-9:50 **Reactivity of the unconscious brain**
Mihai Moldovan
- 9:50-10:15 **Molecular signatures of trauma in psychotic and affective disorders**
Nađa Marić Bojović
- 10:15-10:40 **NADPH oxidase in psychiatric disorders**
Nataša Petronijević
- 10:40-11:05 **Molecular mechanisms of memory modifications**
Pavel Balaban
- 11:05-11:30 **The Epigenetics of behavior and mental disorders**
Marija Kundaković
- 11:30-12:00 **Coffee break**
- 12:00-13:30 **Workshop- Academic skills**
Paul Bolam
- 13:30-15:30 Lunch break and poster session**
- 16:30-19:00 SYMPOSIUM 5: Neuroplasticity**

Chairs: Selma Kanazir, Mirjana Maletić-Savatić

- 16:30-16:55 **Adult human neurogenesis: current perspectives**
Mirjana Maletić-Savatić
- 16:55-17:20 **Strategies for targeting motor neuron circuitry: From development to therapeutic approaches**
Emel Ulupinar
- 17:20-17:45 **Sleep Oscillations and Brain Plasticity**
Jasna Šaponjić
- 17:45-18:10 **Biomarkers in neurodegenerative diseases-how much and how do they help us?**
Elka Stefanova
- 18:10 -18:35 **Propofol anesthesia exposure in peripubertal rats-with reference to addictive potential of the drug**
Vesna Pešić
- 18:40 -19:00 **Best Poster Award Announcements**
- 19:00-19:10 **Closing remarks**
- 20:00-22:30 **Students' Party**

POSTER SESSIONS

Thursday (13:30-15:30), October 26, 2017

- Mitrović N, Zarić M, Guševac Stojanović I, Drakulić D, Martinović J, Grković I. **Sex difference in the 17 β -estradiol induced modulation of ecto-5'-nucleotidase activities in the hippocampal synaptosomes.** [A1]
- Grković I, Mitrović N, Drakulić D, Zarić M, Martinović J, Guševac Stojanović I, Nedeljković N. **Attenuation of NTPDase/eN activities is associated with 17 β -Estradiol-mediated synaptic rearrangements in hippocampal synaptosomes of male rats.** [A2]
- Dragić M, Mitrović N, Drakulić D, Zarić M, Martinović J, Guševac Stojanović I, Nedeljković N, Grković I. **17 β -Estradiol upregulates ecto-nucleoside triphosphate diphosphohydrolase 2 (NTPDase2) in hippocampal astrocytes of female rats - Histochemical and molecular analysis.** [A3]
- Zarić M, Drakulić D, Grković I, Guševac Stojanović I, Mitrović N, Martinović J. **Dehydroepiandrosterone stays silent in the vicious ischemic circle governed by synaptic NMDAR2B overexpression in rat hippocampus.** [A4]
- Ercelen B, Polat Çorumlu E, Ulupinar E. **Experimental diabetes affects the number of neurons in the fastigial nucleus of the rat cerebellum.** [A5]
- Popović N, Gavrilović Lj, Stojiljković V, Pejić S, Todorović A, Pavlović I, Pajović S.B. **Relationship between stress-activated dopaminergic system and glutathione antioxidant defense system in rat hippocampus.** [A6]
- Ulupinar E, Corumlu E.P, Can D.O, Ozkay U. **Alterations in Dendritic Spine Morphology on the Hippocampal Neurons of Diabetic Rats.** [A7]
- Corumlu E.P, Aydin O.O, Ulupinar E. **Single Dose Ketamine Injection Did Not Alter Behavioral Parameters in Female Rats Exposed to Prenatal and Chronic Unpredictable Mild Stress.** [A8]
- Jakovljević A, Tucić M, Stamenković V, Pavle R, Andjus P.R. **Immunohistochemical analysis of vesicular glutamate and GABA transporters in the hippocampus and retrosplenial cortex of mice deficient for matrix metalloproteinase 9.** [A9]
- Guševac Stojanović I, Stanojlović M, Grković I, Martinović J, Mitrović N, Zarić M, Drakulić D. **NF κ B downregulation governs cortical apoptotic response in early stage of mild brain ischemia in male rats.** [A10]
- Nedeljković P, Dacić S, Vučević D, Peković S, Božić Nedeljković B. **Vitamin b complex therapy improves recovery of injured peripheral motor nerve.** [A11]

- Sanja Dacić S, Stajković N, Lavrnja I, Savić D, Laketa D, Rakić Lj, Stojilković M, Peković S. **Effect of ribavirin on neuroplasticity and neurogenesis after brain injury in adult rats.** [A12]
- Bijelić D, Adžić M, Milošević M, Jakovčevski I, Andjus P.R. **The Role of Individual Recombinant TnC Fragments in Glial Scar Formation.** [A13]
- Stanisavljević D, Popović J, Radulović V, Petrović I, Davidović S, Atkinson M.J, Stevanović M, Anastasov N. **The effects of low dose radiations on neural differentiation *in vitro*.** [A14]
- Jovanović Tucović M, Dulović M, Kostić V, Trajković V, Marković I. **Lysosomal impairment in MPP⁺ model of Parkinson's disease.** [A15]
- Tesović K, Božić I, Stevanović I, Savić D, Peković S, Lavrnja I. **Antioxidative and protective effects of agmatine on lps activated bv-2 microglia.** [A16]
- Nemes I, Orčić D, Beara I, Svircev E, Lesjak M, Mimica-Dukić N, Simin N. **Anti-inflammatory potential of wild-growing *Allium* species (sect. *Codonoprasum*).** [A17]
- Djedović N, Stanisavljević S, Jevtić B, Momčilović M, Lavrnja I, Miljković Dj. **Anti-encephalitogenic effects of ethyl pyruvate in the central nervous system.** [A18]
- Brkić Ž, Francija E, Petrović Z, Milosavljević M, Franić D, Mitić M, Adžić M. **Neuroinflammation differently modifies hippocampal glucocorticoid receptor phosphorylation and co-chaperone levels in female and male rats.** [A19]
- Stanisavljević S, Dinić M, Jevtić B, Đedović N, Momčilović M, Đokić J, Golić N, Mostarica Stojković M, Miljković Đ. **Perturbation of gut microbiota annuls the resistance of female Albino Oxford rats to induction of experimental autoimmune encephalomyelitis.** [A20]
- Adžić M, Nedeljković N. **The blockade or lack of CD73 increases the migration of astrocytes *in vitro*, independent of CD73 catalytic activity.** [A21]
- Jakovljević M, Lavrnja I, Božić I, Adžić M, Bjelobaba I, Savić D, Peković S, Nedeljković N, Laketa D. **ADP receptors P2Y₁, P2Y₁₂ and P2Y₁₃ are differentially regulated in a rat model of multiple sclerosis.** [A22]
- Milosević A, Lavrnja I, Jakovljević M, Božić I, Peković S, Bjelobaba I. **Estrous cycle disruption during experimental autoimmune encephalomyelitis is followed by the changes in hypothalamic kisspeptin expression.** [A23]
- Laketa D, Josipović N, Lavrnja I, Bjelobaba I, Jakovljević M, Božić I, Savić D, Dacić S, Peković S, Nedeljković N. **Appearance of second ecto-5'-nucleotidase isoform during experimental autoimmune encephalomyelitis is caused by changes in glycosylation pattern.** [A24]
- Božić I, Tesović K, Jakovljević M, Adžić M, Bjelobaba I, Savić D, Laketa D, Peković S, Lavrnja I. **Kv1.3 potassium channel is upregulated on**

activated microglia and macrophages during experimental autoimmune encephalomyelitis. [A25]

- Milićević K, Milošević M, Božić I, Lavrnja I, Stevanović I, Bijelić D, Živković I, Stević Z, Andjus P.R. **Serum IGG fraction from ALS patients alters redox homeostasis in the BV-2 microglial cell line.** [A26]
- Jevtić B, Djedović N, Stanisavljević S, Miljković Dj, Timotijević G. **Cucumber leaf extract inhibits encephalitogenic cells.** [B1]
- Milosavljević M, Franić D, Jovičić M, Brkić Ž, Mihaljević M, Francija E, Petrović Z, Andrić-Petrović S, Mitić M, Radulović J, Marić N, Adžić M. **Abnormalities of nuclear glucocorticoid receptor alpha isoforms in lymphocytes as predictors of unipolar depression.** [B2]
- Parojčić A, Dubljević O, Vojvodić N, Sokić D, Ilić V, Salak B. **Cognition in recently diagnosed patients with epilepsy.** [B3]
- Arsenijević M, Jovanović D. **Does hemispheric lateralization influence the efficacy of intravenous thrombolytic therapy in patients with acute ischemic stroke?** [B4]
- Kiyak C, Aslan L, Münevîş D. **Hemispheric Asymmetry in Menstrual Cycle, Lateralization in Top-Down Processing: Menstrual Cycle and Gender Differences.** [B5]
- Mihailovich M, D'Agostino G, Germain P-L, Liu Y, Hughes J, Lazzarin M, Cavallo F, Franchini A, Zanella M, Aebersold R, Testa G. **Williams-Beuren Syndrome and 7dupASD: a model to study translational dysregulation in neurodevelopmental disorders.** [B6]
- Dawod P.G.A, Rovčanin B, Brankovic M, Marjanovic A, Janković M, Novakovic I, Dujmovic I, Jancic J, Kostic V. **Analysis of mtDNA mutations in Serbian patients with Leber's optic atrophy.** [B7]
- Nesic M.J, Maric N. P. **Population-based differences in immune system response contribute to an increased risk of schizophrenia in African migrants?** [B8]
- Šuljagić V, Petrović D. **Combining strategic management with neuroscience.** [B9]
- Šuljagić V, Dimitridias N. **Neuromarketing services mapping.** [B10]

Friday (13:30-15:30), October 27, 2017

- Karanović J, Ivković M, Pantović M, Damjanović A, Jovanović V, Brajušković G, Savić Pavićević D. **Association of variants in RNA editing genes, serotonergic system genes and stressful life events with suicide attempt in psychiatric patients.** [C1]
- Franić D, Milosavljević M, Mihaljević M, Petrović Z, Andrić-Petrović S, Brkić Ž, Francija E, Mitić M, Marić N, Adžić M. **Diagnostic values of glucocorticoid receptor alpha isoforms and FKBP5 in peripheral blood mononuclear cells in psychotic illness.** [C2]

- Vidojević A, Savić M. **Influence of novel benzodiazepine bioisosteres on motor activity in mice.** [C3]
- Rašić Marković A, Ćirković V, Puškaš N, Hrnčić D, Milutinović Vojinović D, Grubač Z, Šutulović N, Macut Dj, Stanojlović O. **Maternal testosterone exposure increases anxiety-like behaviour in the female offspring.** [C4]
- Cicvaric A, Yang J, Krieger S, Khan D, Kim E-J, Dominguez-Rodriguez M, Cabatic M, Molz B, Aguilar J.P.A, Milicevic R, Smani T, Breuss J.M, Kerjaschki D, Pollak D.D, Uhrin P, Monje F.J. **The brain-tumor related protein podoplanin regulates synaptic plasticity and hippocampus-dependent learning and memory.** [C5]
- Rankov Petrović B, Rašić Marković A, Hrnčić D, Macut Dj, Stanojlović O. **Anxiety-related behaviors and expression of neuropeptide-y and parvalbumin in hippocampus of female rats - effects of exercise.** [C6]
- Milanović D, Pešić V, Avramović V, Pavković Ž, Vasiljković-Lončarević N, Tesić V, Brkić M, Kanazir S. **Neonatal propofol anesthesia changes behavior in adolescent and adult rats.** [C7]
- Francija E, Petrović Z, Brkić Ž, Franić D, Mitić M, Milosavljević M, Radulović J, Adžić M. **GluN2A-containing NMDA receptor promotes lipopolysaccharide-induced depressive-like behaviour in mice: interplay with PSA-NCAM and BDNF.** [C8]
- Avramovic V , Brkic M, Babic N, Milanovic D, Perovic M, Tesic V , Ivkovic S, Kanazir S. **Behavioral changes in 5x-FAD offspring of fish oil supplemented dams during pregnancy and lactation.** [C9]
- Glavonić E, Petrović Z, Mitić M, Francija E, Radulović J, Adžić M. **Deficiency of glutamatergic transmission mediates altered fear extinction learning in hippocampus of adolescent mice.** [C10]
- Mladenović D, Hrnčić D, Rašić-Marković A, Rankov-Petrović B, Vasović D, Stanojlović O. **Finasteride induces bright space, but not open space anxiety-like behavior in rats.** [C11]
- Šutulović N, Grubač Ž, Ademović A, Puškaš N, Rašić-Marković A, Hrnčić D, Stanojlović O. **Chronic Prostatitis/ Chronic Pelvic Pain Syndrome in rats: relationship with depressive-linked behavior.** [C12]
- Gligorovska Lj, Djordjevic A, Bursac B, Veličković N, Ignjatović Dj, Tomić M, Matic G. **Effects of macrophage migration inhibitory factor deficiency and fructose-enriched diet on systemic and hippocampal insulin sensitivity, behavior and hippocampal plasticity in male mice.** [C13]
- Hrnčić D, Rašić-Marković A, Šutulović N, Grubač Ž, Vorkapić M, Ademović A, Macut Dj, Šušić V, Djuric D, Stanojlović O. **Neuronutrition: behavioral alterations in hyperhomocysteinemia induced by methionine nutritional overload in male rats.** [C14]
- Petrović Z, Mitić M, Francija E, Franić D, Brkić Ž, Milosavljević M, Radulović J, Adžić M. **NR2A-containing NMDA receptor and sex-**

dependent effects of dexamethasone on extinction learning. [C15]

- Kapor S, Lazić K, Ćirić J, Petrović J, Šaponjić J. **Distinct cortical and hippocampal sleep during the impaired thalamo-cortical innervation in rat.** [C16]
- Ćirić J, Lazić K, Petrović J, Šaponjić J. **Aging induced alteration of sleep spindles during rem sleep in a rat model of parkinson's disease cholinopathy.** [C17]
- Grubač Ž, Šutulović N, Ademović A, Rašić-Marković A, Hrnčić D, Stanojlović O. **Does the experimental sleep fragmentation similar to one in patients with sleep apnea influence anxiety levels?** [C18]
- Lazić K, Petrović J, Ćirić J, Šaponjić J. **General anesthesia induces post-anesthesia rem sleep disorder in rat.** [C19]
- Spasić S, Lopičić S, Stanojević M, Nedeljkov V, Prostran M. **The effect of 2,4 - diaminobutyric acid on Retzius neuron membrane potential.** [C20]
- Stanojević M, Lopčić S, Spasić S, Nedeljkov V, Jovanović Z, Prostran M. **Antiepileptic effect of magnesium on an experimental model of nonsynaptic epileptiform activity.** [C21]
- Vorkapić M, Janković M, Savić A, Useinović N, Rašić-Marković A, Hrnčić D, Stanojlović O. **Biotic patterns in the EEG signal of lindane treated rats: ictal and preictal.** [C22]
- Jovanović Z.D. **Effect of oxidative stress produced by cumene hydroperoxide on the electrical properties of leech Retzius nerve cells.** [C23]
- Aleksić D, Aksić M, Poleksić J, Marković B, Aksić M, Filipović B. **The long-term effects of the maternal deprivation on the density and size of the gabaergic interneurons in the amygdala and nucleus accumbens.** [C24]
- Mladenovic Djordjevic A, Jovic M, Loncarevic-Vasiljkovic N, Athanasopoulou S, Gonos E.S, Kanazir S. **Proteasome activation plays role in 18 α -glycyrrhetic acid protective effect in 5xFAD animal model of Alzheimer's disease.** [C25]
- Jovanovic Macura I, Milanovic D, Avramovic V, Perovic M, Loncarevic-Vasiljkovic N, Mladenovic-Djordjevic A, Ivkovic S, Kanazir S. **Anold eye - retinal alterations in physiological aging and in 5xFAD mouse Alzheimer's disease model.** [C26]
- Smiljanic K, Todorovic S, Mladenovic Djordjevic A, Vanmierlo T, Lütjohann D, Ivkovic S, Kanazir S. **Brain energy homeostasis during aging - influence of limited daily feeding and intermittent feeding.** [D1]
- Brkić M, Avramović V, Milanović D, Perović M, Tešić V, Ivković S, Kanazir S. **The effects of fish oil supplementation during pre- and per-natal period on amyloid pathology in 5xFAD transgenic mice model of Alzheimer's disease.** [D2]

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