

8th International Congress of Pathophysiology – Poster Sessions

Thursday, September 6, 2018 at 15:30–16:30

POSTER SESSION A1: BRAIN AND BEHAVIOURAL DISORDERS I

Chairpersons: N. Hlaváčová, F. Tichánek

A1 – 1: Fan et al., China

SIRT1 mediates apelin-13 in ameliorating chronic normobaric hypoxia-induced anxiety-like behavior by suppressing neuroinflammation and proliferation in mice hippocampus

A1 – 2: Meigal et al., Russian Federation

Psychomotor performance in Parkinson's disease patients under the course of analogue microgravity

A1 – 3: Kostiuk et al., Ukraine (Kostiuk and Dehtiarenko)

Adaptive bioacoustic correction in dysontogenetic development syndromes in children

A1 – 4: Dehtiarenko and Kostiuk, Ukraine

Interdisciplinary and neuropsychological approach to diagnosis and correction of phenotypes of deviant behavior in preschool children.

A1 – 5: Puhova et al., Slovakia

Cell proliferation and the reperfusion injury salvage kinase pathway in the left heart ventricle of voluntary wheel running rats

A1 – 6: Chmelová et al., Slovakia

Does post-weaning social isolation induce sex-dependent behavioral changes?

A1 – 7: Jagla and Pecháňová, Slovakia

NO signalling: the processes on the conscious and unconscious levels

A1 – 8: Benko and Cimrová, Slovakia

The possible role of interoception in time perception during isometric contraction

A1 – 9: Piešová et al., Slovakia

Behavioral assessment of rat offspring after late gestational hypoxia

POSTER SESSION A2: BRAIN AND BEHAVIOURAL DISORDERS II

Chairpersons: O. Fedotova, F. Jagla

A2 – 1: Lyubashina et al., Russian Federation

Pronociceptive changes in response properties of caudal medullary neurons in colitis

A2 – 2: Qi et al., China

Intermedin reduces neointima formation by regulating vascular smooth muscle cell phenotype via cAMP/PKA pathway

A2 – 3: Bulboaca et al., Romania

Endothelial Dysfunction in Migraine Patients

A2 – 4: Gerasimova-Meigal and Sirenev, Russian Federation

Pathogenic role of autonomic dysfunction in cold intolerance in multiple sclerosis patients

A2 – 5: Spasić et al., Serbia

Extensive excitatory effects of 2,4 – diaminobutyric acid on leech Retzius neurons

A2 – 6: Vranková et al., Slovakia

Alterations in nitric oxide production after postweaning social isolation

A2 – 7: Kozyrev et al., Russian Federation

In search of links between Alzheimer's disease and Hashimoto's thyroiditis

A2 – 8: Novikova et al., presented by Diatlova, Russian Federation

Preventive tuft sin-phosphorylcholine action on the experimental autoimmune encephalomyelitis in the mice development in mice C57BL/6

A2 – 9: Churilov et al., Russian Federation

Far North. Adaptation disorders. Management and prevention.

POSTER SESSION B1: RENAL AND GASTROINTESTINAL DISORDERS

Chairpersons: L. Kopkan, A. Puzserova

B1 – 1: Sydorчук and Syrota, Ukraine

Etiopathogenic predictors and their role in the development of acute enterocolitis

B1 – 2: Gozhenko et al., Ukraine

Functional renal reserve in diabetic nephropathy patients

B1 – 3: Luan et al., China

Farnesoid X receptor is essential for the survival of renal medullary collecting duct cells under hypertonic stress

B1 – 4: Aslan et al., Turkey

Diclofenac Induced Gastrointestinal and Renal Toxicity is Reduced by Thymoquinone Treatment

B1 – 5: He et al., presented by Kobayashi, Japan

Mechanism of Liver fibrosis and curative effects by Curcumin

B1 – 6: Vesković et al., Serbia

The effects of betaine on oxidative stress, inflammation, apoptosis, and autophagy in methionine-choline deficient diet-induced fatty liver disease in mice

B1 – 7: Rohovyi et al., Ukraine

Analysis of functional and biochemical state of kidneys with nephrolithiasis with the help of pathophysiological, biochemical, immuno-enzymatic methods and bioresonance technologies

B1 – 8: Peng et al., China

Da Cheng Qi Decoction ameliorates allergic lung inflammation in mice via influencing the interaction between intestinal microbiota and ILC2

B1 – 9: Kovacevic et al., Serbia

Rapid depolarization of peritubular membrane potential after luminal application of L-alanine is modify by peritubular perfusion with cadmium ions

B1 – 10: Burta et al., Romania

The Immunological profile of AgHBs in screening tests of blood donors, in Bihor County Romania

POSTER SESSION B2: RESPIRATORY DISORDERS

Chairpersons: A. E. Pârvu, J. Török

B2 – 1: Klinnikova, Russian Federation

The effect of pro-inflammatory cytokine TNF- α on lung ventilation and hypoxic chemoreception.

B2 – 2: Urazova et al., Russian Federation

The factors of dendritic cells dysfunction at pulmonary tuberculosis

B2 – 3: Wang et al., China

Epigallocatechin-3-gallate (EGCG) inhibits aggregation of pulmonary fibrosis associated mutant surfactant protein A2 through a proteasome degradation pathway

B2 – 4: Churina et al., Russian Federation

The number of Foxp3-expressing and $\gamma\delta$ T regulatory cells at multidrug-resistant pulmonary tuberculosis

B2 – 5: Oczkowski et al., Poland

Antioxidant defense parameters in testes of adult male rats after exposure to exhaust emission from 2nd generation biodiesel

B2 – 6: Li et al., China

PM2.5 induced airway inflammation and promoted airway hyperreactivity through SIRT2-p65 pathway.

B2 – 7: Beňačka et al., Slovakia

Changes in the regional cerebral oxygenation in critical newborns after hematological stabilization

B2 – 8: Topercerová et al., Slovakia

The effect of endotoxin on the airway smooth muscle

B2 -9: Belo et al., presented by Neuparth, Portugal

Bioaerosol effects on lung function of older people living in nursing homes: spirometric assessment

B2 – 10: Belo et al., presented by Carreiro-Martins, Portugal

The impact of indoor air quality on airway pH of older people living in nursing homes

B2 – 11: Basantsova et al., Russian Federation

Detection of small fiber neuropathy in patients with pulmonary sarcoidosis

Friday, September 7, 2018 at 15:30–16:30

POSTER SESSION C1: ATHEROSCLEROSIS AND VASCULAR DISORDERS

Chairpersons: S. M. Arribas, A. Berenyiova

C1 – 1: Li et al., presented by Yang, China

Hypericin-mediated sonodynamic therapy induces autophagy and decreases lipids in THP-1 macrophage by promoting ROS-dependent nuclear translocation of TFEB

C1 – 2: Košútová et al., Slovakia

Effects of Evolocumab in Zucker diabetic fatty rats

C1 – 3: Horváthová et al., Slovakia

More efficient suppression of endothelial cell metabolism with simultaneous inhibition of glycolysis and tyrosine kinase receptor activity

C1 – 4: Maksimovich, Belarus

Endothelium dysfunction as pathogenetic factor of labile arterial hypertension at children with vegetative nervous system disturbances

C1 – 5: Maksimovich and Pronko, Belarus

Endothelial vasoactive properties in patients after coronary artery bypass surgery with different level of hemolysis

C1 – 6: Mozos and Jianu, Romania

Vitamin D and 12-lead ECG in patients with hypertension and high normal blood pressure

C1 – 7: Zemančíková and Torok, Slovakia

Effect of perivascular adipose tissue in mesenteric arteries of young and adult spontaneously hypertensive rats

C1 – 8: Vašků et al., Czech Republic

Differences between patients with insignificant coronary atherosclerosis and those without atherosclerosis in some proinflammatory and remodeling gene polymorphisms

C1 – 9: Balis et al., Slovakia

Oxidative stress and endothelial dysfunction are not involved in the initiation of blood pressure increases in borderline hypertensive rats

POSTER SESSION C2: HIGH BLOOD PRESSURE

Chairpersons: E. Kompanowska Jezierska, S. Čačányiová

C2 – 1: Sydorchuk and Dzhuryak, Ukraine

Chronic kidney disease development in patients with arterial hypertension depending on clinical and laboratory predictors

C2 – 2: Sydorchuk and Yarynych, Ukraine

Genetic predictors of the non-alcoholic fatty liver disease development in patients with arterial hypertension and abdominal obesity.

C2 – 3: Fan et al., China

Chronic normobaric hypoxia promotes miR-335-3p-mediated pulmonary arterial hypertension via NF- κ B signaling pathway

C2 – 4: Takemori et al., Japan

Hypertensive vascular changes were suppressed by elastin peptide obtained from fish bulbous arteriosus

C2 – 5: Maksimovich et al., Belarus

Morphological and metabolic disturbances in the parietal cortex neurons after introduction of L-name in rats with experimental cerebral ischemia

C2 – 6: Horváthová et al., Slovakia

Sex differences in blood antioxidant defence system in juvenile rats with various genetic predisposition to high blood pressure

C2 – 7: Pauliukevich et al., Belarus

Prenatal stress stimulates no hyperproduction by INOS in the coronary vessels and produces systemic low-grade inflammation

C2 – 8: Kluknavsky et al., Slovakia

(-)-Epicatechin induces long-term reduction of blood pressure in young borderline hypertensive rats

C2 – 9: Radosinska et al., Slovakia

Age-dependent changes in selected parameters of erythrocytes in animal model of primary hypertension.

C2 – 10: Zivkovic et al., Serbia

Effects of moderate – intensity and high – intensity exercise preconditioning on ischemia / reperfusion injury in rat heart

C2 – 11: Skratek et al., Slovakia

Age-dependent differences in the left heart ventricle tissue magnetization of spontaneously hypertensive rats

C2 – 12: Majzunova et al., Slovakia

The redox signaling in the kidney of young spontaneously hypertensive rats after chronic inhibition of NO

POSTER SESSION C3: HEART DISEASES

Chairpersons: I. Guzhova, M. Barteková

C3 – 1: Xiao et al., China

Inflammasome activation Triggers Cardiac-specific Inflammation Induced by β -adrenergic Over-activation

C3 – 2: Wang et al., presented by Xu, China

The role of Calcium sensing receptor in diabetic cardiomyopathy and its underlying mechanism

C3 – 3: Boarescu et al., Romania

Troponin in patients with chest pain in an emergency department

C3 – 4: Wu et al., China

CTRP3 promotes mitochondrial biogenesis through AMPK/PGC-1 α pathway in cardiomyocytes

C3 – 5: Li et al., China

Targeting ALDH2 for Therapeutic Interventions in Chronic Pain-Related Myocardial Ischemic Susceptibility

C3 – 6: Liu Xiuhua, China

The PERK/Nrf2 pathway is involved in thapsigargin and tunicamycin-induced endoplasmic reticulum stress-related apoptosis in H9c2 cells

C3 – 7: Meigal and Gerasimova-Meigal, Russian Federation

Heart rate variability and blood pressure in Parkinson's disease patients under analogue microgravity

C3 – 8: Sykora et al., Slovakia

Pregnancy and systemic hypoxia affect cardiac extracellular and intercellular communication in female rats

C3 – 9: Krátký and Kopkan, Czech Republic

ACE Inhibitors vs. AT1 Receptor Blockers: Renal Hemodynamics in an Experimental Model of Congestive Heart Failure

C3 – 10: Ravingerova et al., Slovakia

Remote preconditioning attenuates higher susceptibility to ischemia/reperfusion injury in hypertensive rat hearts, but efficiency of protective intervention is lower

C3 – 11: Krohova et al., Slovakia

Analysis of respiratory sinus arrhythmia mechanisms in information domain

C3 – 12: Lonek et al., Slovakia

Molecular signaling in the rat myocardium evoked by chronic exercise: beneficial and detrimental effects

C3 – 13: Laco et al, Slovakia

Effect of rate corrosion of Mg and Mg alloy on renal nitric oxide synthase activity in male and female rats

C3 – 14: Wang et al., China

Overexpression of myofibrillogenesis regulator 1 promotes the cardiomyogenic differentiation of H9c2 rat cardiomyoblasts via the myogenin mediated pathway

POSTER SESSION D: TEACHING IN PATHOPHYSIOLOGY

Chairpersons: S. Hnilicová, P. F. Litvitskiy

D – 1: Adam et al., Romania

Alternative Teaching and Study Methods: Our Flipped-Classroom Experience

D – 2: Sarov and Chamova, Bulgaria

Holistic view on etiology teaching in pathophysiology

D – 3: Sarov, Bulgaria

Holistic view on metabolic syndrome understanding and teaching

D – 4: Itoga et al., presented by Washizawa, Japan

EEG based automatic music recommendation system using ranking deep artificial neural network

D – 5: Fonseca et al., presented by Rendas, Portugal

A proposal to score concepts maps used in pathophysiology teaching based on current experience and critical literature review

Saturday, September 8, 2018 at 10:30–11:30

POSTER SESSION E1: INFLAMMATION

Chairpersons: T. Ravingerová, A. Vašků

E1 – 1: Stankovic et al., Serbia

IL-33/ST2 axis and cytokine gene expression in acute inflammation

E1 – 2: Li et al., China

ZhuHong Ointment promotes chronic wound healing by regulating inflammatory response, enzyme activity and neutrophil apoptosis

E1 – 3: Litvitskiy et al., Russian Federation

Changes of IL-4 and IFN- γ synthesis by monocytes and T-lymphocytes in modeling of acute systemic juvenile idiopathic arthritis in rats

E1 – 4: Klymenko and Shelest, Ukraine

Production of interleukin 1 β , 2 and 10, and C-reactive protein in chronic inflammatory diseases depending on the duration of disease and frequency of exacerbation

E1 – 5: Shibamoto et al., Japan

No release of angiopoietin-2 during anaphylaxis-induced vascular leak in anesthetized mice

E1 – 6: Kitsiuk, Ukraine

Dismetabolism of nitrous oxide due to local ultraviolet irradiation of guinea-pigs' skin at the posterithemic period

E1 – 7: Yasuzawa et al., Japan

Glomerular inflammation induced by obesity results in albuminuria without histological changes

E1 – 8: Hao et al., China

Effects of Berberine on ROS-mediated activation of NLRP3 inflammasome in influenza virus-challenged macrophages

E1 – 9: Dziendzikowska et al., Poland

Beneficial effects of oat β -glucans on the large intestinal inflammation

E1 – 11: Ozkok et al., Turkey

Simvastatin's Effect on YKL-40 in Lung Tissue During Sepsis

E1 – 12: Maklakova et al., Russian Federation

The perspective of using complex transplantation of stem cells for the haemopoiesis regeneration

POSTER SESSION E2: CANCER

Chairpersons: J. Tremblay, I. Dovinová

E2 – 1: Luan and Wang, China

Long non-coding RNA MIAT promotes breast cancer progression and functions as ceRNA to regulate DUSP7 expression by sponging miR-155-5p

E2 – 2: Liu et al., China

SIRT3 induces apoptosis in lung cancer cells by inhibiting mutant P53

E2 – 3: Wu et al., presented by Su, China

SIRT3 aggravates metformin-induced energy stress and apoptosis in ovarian cancer cells

E2 – 4: Shen et al., presented by Sun, China

PGC1 α promotes cisplatin resistance in human ovarian carcinoma cells through upregulation of mitochondria biogenesis

E2 – 5: Zhang et al., China

The Inhibitor of Hdac3 induce glioma initiating cells to differentiate through TGF- β signal pathway

E2 – 6: Dinčić et al., Serbia

Toxicity evaluation of two biologically active polyoxotungstates

E2 – 7: Mocanu et al., Romania

Distribution of ghrelin receptor (GHSR-1A) on adipocytes derived from subcutaneous adipose tissue in severely obese patients

E2 – 8: Druica and Mocanu, Romania

Salivary proteomics in metabolic disease

E2 – 9: Šoltésová Prnová et al., Slovakia

Cemtirestat attenuated neurological disorders in rat models of type I and type II diabetes: a behavioral study

E2 – 10: Ling, China

Clinical characteristics, genetic aberrations of gastric squamous cell carcinoma and gastric adenosquamous carcinoma by whole exome and transcriptome sequencing analysis

E2 – 11: Sugimoto et al., Japan

Hypoxia downregulates cannabinoid receptors, upregulates COX-2, and attenuates cannabinoid receptor agonist-induced cell death in glioblastoma cells

POSTER SESSION E3: METABOLIC DISORDERS

Chairpersons: M. Cebova, V. Zivkovic

E3 – 1: He et al., China

Huiyang shengji Ointment promotes diabetic wound healing of db/db mouse by regulating angiogenesis through miRNA200b-GATA2-VEGFR2 signal axis

E3 – 2: Maruyama et al., Japan

Impairments of protease-activated receptor 2-mediated vasodilations in renal arteries and development of kidney dysfunction in metabolic syndrome

E3 – 3: Tao and Liu, China

The PERK/Nrf2 pathway is involved in thapsigargin or tunicamycin-induced injury by endoplasmic reticulophagy in H9c2 cells

E3 – 4: Li et al., presented by Wang, China

Effect of Astragaloside Combined with Puerarin on Endoplasmic Reticulum Stress in H9C2 Rat Cardiomyocytes Induced by High Glucose

E3 – 5: Jorgačević et al., Serbia

The effect of rimonabant on hepatic free fatty acid profile in mice with nonalcoholic fatty liver disease

E3 – 6: Lóry et al., Slovakia

In vivo stimulation of Mas receptors by AVE0991 in obese Zucker rats improves glucose tolerance through increased renin receptor expression and activation of both pro- and anti-oxidative pathways in skeletal muscle

E3 – 7: Li et al., China

Gastroenteral hormone ghrelin stimulates endothelial cells angiogenesis through ERK pathway

E3 – 8: Regecová et al., Slovakia

Types of obesity related to the risk of hypertension

E3 – 9: Soprun, Russian Federation

Pathophysiological aspects of the influence of environmental factors on the distribution of type 1 diabetes in Russia

E3 – 10: Petrenko et al., presented by Kubyshkin et al., Russian Federation

Grape polyphenols as pathogenic therapy of the metabolic syndrome and diabetes mellitus type 2

E3 – 11: Petrenko et al., presented by Kubyshkin et al., Russian Federation

A new generation of angiotensin II receptor blockers as pathogenetic correction of the metabolic syndrome

E3 – 12: Codrina Morarasu et al., presented by Mocanu et al., Romania

Peroxisome proliferator-activated receptor gamma and growth hormone secretagogue receptor-1a mRNA expression in adipose tissue obtained from severely obese patients

E3 – 13: Hristov et al., presented by Mocanu et al., Romania

Subcutaneous adipocyte morphometry – lipid storage capacity evaluation for obese bariatric patients

E3 – 14: Stroev et al., Russian Federation

A new view on the pathogenesis of juvenile obesity with pink striae (Simpson-Page Syndrome)