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Chairpersons: N. Hlavacova, F. Tichanek
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A1 – 2: Meigal et al., Russian Federation
Psychomotor performance in Parkinson’s disease patients under the course of analogue microgravity
A1 – 3: Kostiuk and Dehtiarenko, Ukraine
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
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A1 – 6: Chmelova et al., Slovakia
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A1 – 7: Jagla and Pechanova, Slovakia
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A1 – 8: Benko and Cimrova, Slovakia
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A1 – 9: Piesova et al., Slovakia
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A1 – 10: Rovny et al., Slovakia
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Chairpersons: O. Fedotova, F. Jagla
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A2 – 2: Qi et al., China
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A2 – 6: Vrankova et al., Slovakia
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A2 – 7: Kozyrev et al., Russian Federation
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A2 – 8: Novikova et al., presented by Diatlova, Russian Federation
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A2 – 9: Churilov et al., Russian Federation
A2 – 10: Mitka et al., Slovakia
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Chairpersons: L. Kopkan, J. Radosinska
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  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
  Farnesioid 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: Vesnovic 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: Barta et al., Slovakia
  The effect of curcumin on liver fibrosis in the rat model of microsurgical cholestatis

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Chairpersons: A. E. Parvu, J. Torok
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 γδT 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: Benacka et al., Slovakia
  Changes in the regional cerebral oxygenation in critical newborns after hematological stabilization
B2 - 8: Topercerova 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
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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: Kosutova et al., Slovakia  
Effects of Evolocumab in Zucker diabetic fatty rats

C1 – 3: Horvathova 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: Zemancikova and Torok, Slovakia  
Effect of perivascular adipose tissue in mesenteric arteries of young and adult spontaneously hypertensive rats

C1 – 8: Vasku 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 Jeziorska, S. Cacanyiova

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-κB signaling pathway

C2 – 4: Takemori et al., Japan  
Hypertensive vascular changes were suppressed by elastin peptide obtained from fish bulbus arteriosus

C2 – 5: Maksimovich et al., Belarus  
Morphological and metabolic disturbances in the parietal cortex neurons after introduction of L-NAME in rats with experemental cerebral ischemia

C2 – 6: Horvathova et al., Slovakia  
Sex differences in blood antioxidant defence system in juvenile rats with various genetic predisposition to high blood pressure

C2 – 7: Mozos and Jianu, Romania  
Predictors of early arterial aging in patients with high normal blood pressure and hypertension

C2 – 8: Kluknavsky et al., Slovakia  
(-)-Epicatechin induces long-term reduction of blood pressure in 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
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Chairpersons: I. Guzhova, M. Bartekova

C3 – 1: Xiao et al., China
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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-1α 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: Kratky 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
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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 PATHOPSYIOLOGY
Chairpersons: S. Hnilicova, 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
POSTER SESSION E1: INFLAMMATION
Chairpersons: T. Nikolic, A. Vasku

E1 – 1: Li et al., China
ZhuHong Ointment promotes chronic wound healing by regulating inflammatory response, enzyme activity and neutrophil apoptosis

E1 – 2: 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 – 3: Klymenko and Shelest, Ukraine
Production of interleukin 1β, 2 and 10, and C-reactive protein in chronic inflammatory diseases depending on the duration of disease and frequency of exacerbation

E1 – 4: Shibamoto et al., Japan
No release of angiopoietin-2 during anaphylaxis-induced vascular leak in anesthetized mice

E1 – 5: Kitsiuk, Ukraine
Dismetabolism of nitrous oxide due to local ultraviolet irradiation of guinea-pigs’ skin at the posterithemic period

E1 – 6: Yasuzawa et al., Japan
Glomerular inflammation induced by obesity results in albuminuria without histological changes

E1 – 7: Hao et al., China
Effects of Berberine on ROS-mediated activation of NLRP3 inflammasome in influenza virus-challenged macrophages

E1 – 8: Dziendzikowska et al., Poland
Beneficial effects of oat β-glucans on the large intestinal inflammation

E1 – 9: Ozkok et al., Turkey
Simvastatin’s Effect on YKL-40 in Lung Tissue During Sepsis

E1 – 10: Maklakova et al., Russian Federation
The perspective of using complex transplantation of stem cells for the haemopoiesis regeneration

E1 – 11: Burta et al., Romania
The Immunological profile of AgHBs in screening tests of blood donors, in Bihor County Romania

E1 – 12: Pauliukевич et al., Belarus
Prenatal stress stimulates NO hyperproduction by iNOS in the coronary vessels and produces systemic low grade inflammation

POSTER SESSION E2: CANCER
Chairpersons: J. Tremblay, H. Xiao

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
PGC1α 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: Dincic 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: Soltesova Prnova 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

E2 – 12: Basantsova et al., Russian Federation
Detection of small fiber neuropathy in patients with pulmonary sarcoidosis
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 vasodilatations 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: Jorgacevic et al., Serbia
The effect of rimonabant on hepatic free fatty acid profile in mice with nonalcoholic fatty liver disease

E3 – 6: Lory 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: Regecova 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 pathogenic 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 stries (Simpson-Page Syndrome)

E3 – 15: Dayar et al., Turkey
Do penile hemodynamics change in the presence of hydrogen sulphide donor in the metabolic syndrome induced erectile dysfunction?