## Programme at a Glance

### September 5, 2018

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>16:00 – 20:00</td>
<td>Registration</td>
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<tr>
<td>17:30 – 18:00</td>
<td>Opening</td>
</tr>
<tr>
<td>18:00-19:00</td>
<td>Keynote Lecture</td>
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<tr>
<td>19:15-21:00</td>
<td>Welcome Session</td>
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### September 6, 2018

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:00 – 18:30</td>
<td>Registration</td>
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<tr>
<td>08:30-10:30</td>
<td>Symposium: Redox regulation in pathophysiology of cardiovascular and neurodegenerative diseases</td>
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<tr>
<td>08:30-10:30</td>
<td>Symposium: Translational neuroscience of mental disorders</td>
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<tr>
<td>08:30-10:30</td>
<td>Clinical Symposium: Cardiology: from bench to bedside</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee Break</td>
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<tr>
<td>11:00 – 12:20</td>
<td>Plenary Session 1</td>
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<tr>
<td>12:20-13:30</td>
<td>Lunch Break</td>
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<tr>
<td>13:30-15:30</td>
<td>Symposium: Genetic and nutritional factors in pathophysiology - Redox signalling</td>
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<tr>
<td>13:30-15:30</td>
<td>Symposium: Pathophysiology of intra- &amp; intercellular regulation (part 1)</td>
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<td>13:30-15:30</td>
<td>Clinical Symposium: New frontiers around psychopathology</td>
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<td>15:30-16:00</td>
<td>Coffee</td>
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<tr>
<td>16:30-18:30</td>
<td>Symposium: Metabolic syndrome and cardiovascular risk</td>
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<tr>
<td>16:30-18:30</td>
<td>Symposium: Pathophysiology of intra- &amp; intercellular regulation (part 2)</td>
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<tr>
<td>16:30-18:30</td>
<td>Clinical Symposium: Autism spectrum disorders - targeting pathomechanisms</td>
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<tr>
<td>18:30-19:30</td>
<td>ISP Committee Meeting</td>
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### September 7, 2018

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<tbody>
<tr>
<td>08:00 – 17:00</td>
<td>Registration</td>
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<tr>
<td>08:30-10:30</td>
<td>Symposium: Pathophysiological mechanisms of experimental hypertension</td>
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<tr>
<td>08:30-10:30</td>
<td>Oral Presentations: Neuropsychiatric disorders</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee Break</td>
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<tr>
<td>11:00 – 12:20</td>
<td>Plenary Session 2</td>
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<tr>
<td>12:20-13:30</td>
<td>Lunch Break</td>
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<tr>
<td>13:30-15:30</td>
<td>Symposium: Vascular damage: novel mechanisms and therapeutic opportunities</td>
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<tr>
<td>13:30-15:30</td>
<td>Oral Presentations: Food supplements in disease prevention and treatment</td>
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<td>15:30-16:00</td>
<td>Coffee</td>
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<tr>
<td>15:30 -16:30</td>
<td>Poster Sessions C1, C2, C3, D</td>
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<tr>
<td>17:15</td>
<td>Walking tour</td>
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<td>19:30 – 22:30</td>
<td>Gala Dinner</td>
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### September 8, 2018

<table>
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<tbody>
<tr>
<td>08:00 – 12:00</td>
<td>Registration</td>
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<tr>
<td>08:30-10:30</td>
<td>Symposium: Chronodisruption and life style disease</td>
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<tr>
<td>08:30-10:30</td>
<td>Oral Presentations: Gaseotransmitters, neurotransmitters and peptides in diseased states</td>
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<tr>
<td>08:30-10:30</td>
<td>Oral Presentations: Teaching in pathophysiology</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee</td>
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<tr>
<td>10:30-11:30</td>
<td>Poster Sessions E1, E2, E3</td>
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<tr>
<td>11:30-12:00</td>
<td>Closing Ceremony</td>
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**DETAILED SCIENTIFIC PROGRAMME**

**Wednesday, September 5, 2018**
18:00–19:00, KEYNOTE LECTURE, Plenary Hall

**Chairperson:** Olga Pechanova, Slovakia  
**Speaker:** Pavel Hamet, Canada  
**Lecture title:** Relative importance of clinical vs. genomic risk determinants in pathophysiology of diabetes complications

**Thursday, September 6, 2018**
8:30–10:30, SYMPOSIUM, Hall 1

**REDOX REGULATION IN PATHOPHYSIOLOGY OF CARDIOVASCULAR AND NEURODEGENERATIVE DISEASES**

**Chairperson 1:** Samuel H. H. Chan, Taiwan  
**Chairperson 2:** Ima Dovinova, Slovakia  
**Speaker 1:** Julie Y. H. Chan, Taiwan (30 minutes)  
**Lecture title:** Tissue oxidative stress in the programming of organ injury associated with metabolic syndrome of developmental origin  
**Speaker 2:** Samuel H. H. Chan, Taiwan (30 minutes)  
**Lecture title:** Brain-derived neurotrophic factor (BDNF) as an endogenous antioxidant in animal models of disease  
**Speaker 3:** Vittorio Calabrese, Italy (30 minutes)  
**Lecture title:** Effects of Coriolus versicolor treatment on oxidative stress, redox homeostasis and cellular stress response in MÉNIÈRE’S DISEASE. A rationale for therapeutic intervention in neuroinflammation and antineurodegeneration  
**Speaker 4:** Ima Dovinova, Slovakia (15 minutes)  
**Lecture title:** Aberrant redox regulation and risk markers development in cardiovascular diseases  
**Speaker 5:** Guliz Armagan, Turkey (15 minutes)  
**Lecture title:** Regulation of Nrf2/ARE pathway through GSK-3beta inhibition in neurodegeneration

8:30–10:30, SYMPOSIUM, Hall 2

**TRANSLATIONAL NEUROSCIENCE OF MENTAL DISORDERS**

**Chairperson 1:** Jianzhi Wang, China  
**Chairperson 2:** Igor Riecansky, Slovakia

**Speaker 1:** Jianzhi Wang, China (30 minutes)  
**Lecture title:** Identification of pBLA-vCA1 circuit and its role in emotion-modulated spatial memory  
**Speaker 2:** Gabor Csukly, Hungary (30 minutes)  
**Lecture title:** EEG markers of early cognitive decline in mild cognitive impairment  
**Speaker 3:** Jiri Horacek, Czech Republic (30 minutes)  
**Lecture title:** An emerging role of nitric oxide in schizophrenia  
**Speaker 4:** Daniela Jezova, Slovakia (15 minutes)  
**Lecture title:** Potential pathophysiological role of aldosterone in major depressive disorder

* This symposium is supported by the Slovak Research and Development Agency (grant number APVV-14-0840).

8:30–10:30, CLINICAL SYMPOSIUM, Hall 3

**CARDIOLOGY: FROM BENCH TO BEDSIDE**

**Chairperson 1:** Robert Mistrik, Slovakia  
**Chairperson 2:** Ludovit Paulis, Slovakia

**Speaker 1:** Fedor Simko, Slovakia (30 minutes)  
**Lecture title:** Anticoagulation independent effects of oral anticoagulants: On the search for the vasculoprotective effect of rivaroxaban (sponsored by Bayer, spol. s r. o.)  
**Speaker 2:** Ludovit Paulis, Slovakia (30 minutes)  
**Lecture title:** Means for experimental and clinical RAAS profile modulation  
**Speaker 3:** Oliver Domenig, Austria (30 minutes)  
**Lecture title:** Angiotensin based biomarkers for molecular profiling and drug efficacy monitoring in hypertension (sponsored by Attoquant Diagnostics GmbH)  
**Speaker 4:** Robert Mistrik, Slovakia (30 minutes)  
**Lecture title:** Introduction to a comprehensively annotated LC/MSn database: application for drug development, research and treatment diagnosis (20 minutes)
11:00–12:20, PLENARY SESSION, Plenary Hall

Chairperson: Julie Y. H. Chan, Taiwan

**Speaker 1:** Rhian M. Touyz, United Kingdom (40 minutes)
**Lecture title:** Molecular and vascular pathophysiology of hypertension

**Speaker 2:** Samuel H.H. Chan, Taiwan (40 minutes)
**Lecture title:** Understanding brain death: Insights from translational medicine

13:30–15:30, SYMPOSIUM, Hall 1

**GENETIC AND NUTRITIONAL FACTORS IN PATHOPHYSIOLOGY - REDOX SIGNALING**

Chairperson 1: Cesar G. Fraga, Argentina

Chairperson 2: Joao Laranjinha, Portugal

**Speaker 1:** Enrique Cadenas, USA (30 minutes)
**Lecture title:** Mitochondrion-centric approach to brain aging and Alzheimer’s

**Speaker 2:** Patricia I. Oteiza, USA (30 minutes)
**Lecture title:** Zinc and redox signaling in brain development

**Speaker 3:** Joao Laranjinha, Portugal (30 minutes)
**Lecture title:** Nitric oxide-mediated mechanisms in Alzheimer’s disease

**Speaker 4:** Giuseppe Valacci, USA (30 minutes)
**Lecture title:** Redox signaling in Rett syndrome

13:30–15:30, SYMPOSIUM, Hall 2

**PATHOPHYSIOLOGY OF INTRA- & INTERCELLULAR REGULATION I**

Chairperson 1: Anatoli Kubyshkin, Russian Federation

Chairperson 2: Johanne Tremblay, Canada

**Speaker 1:** Johanne Tremblay, Canada (30 minutes)
**Lecture title:** Role of COMMD5 in cancer as a regulator of endosomal trafficking and EGFR transport and activity

**Speaker 2:** Pavol Janega, Slovakia (30 minutes)
**Lecture title:** Current research of regulatory pathways provides new molecular therapeutic targets improving the prognosis of patients with malignant melanoma

**Speaker 3:** Anatoli Kubyshkin, Russian Federation (20 minutes)
**Lecture title:** Multipotent mesenchymal bone marrow-derived stem cells and apoptotic bodies of cardiomyocytes in process of myocardium reparative morphogenesis

**Speaker 4:** Irina Guzhova, Russian Federation (20 minutes)
**Lecture title:** Chaperones as molecular targets in oncological and neurodegenerative diseases

**Speaker 5:** Boris Margulis, Russian Federation (20 minutes)
**Lecture title:** Prion-like intercellularly transmitted pathologies

13:30–15:30, CLINICAL SYMPOSIUM, Hall 3

**NEW FRONTIERS AROUND PSYCHOPATHOLOGY**

Chairperson 1: Spiridione Masaraki, Italy

Chairperson 2: Yuko Urakami, Japan

**Speaker 1:** Andrea Crocetti, Italy (30 minutes)
**Lecture title:** Tinnitus composite discomfort

**Speaker 2:** Federico Colombo, Italy (30 minutes)
**Lecture title:** Gambling Disorder: Personality characteristics in a clinical sample

**Speaker 3:** Roberto Truzoli, Italy (30 minutes)
**Lecture title:** A comparison between group cognitive behavioural therapy with and without text messaging (SMS) to support compliance in depressed and anxious outpatients

**Speaker 4:** Caterina Vigano, Italy (15 minutes)
**Lecture title:** Psychogenetic dysphagia integrated approach for diagnosis and treatment

**Speaker 5:** Yuko Urakami Japan (15 minutes)
**Lecture title:** Music training is associated with magnetoencephalographic gamma- and alpha-band oscillation binding with attention and consciousness

15:30–16:30, POSTER SESSIONS A1, A2, B1, B2

**SESSION A1: BRAIN AND BEHAVIOURAL DISORDERS I**

Chairpersons A1: Natasa Hlavacova, Filip Tichanek

**SESSION A2: BRAIN AND BEHAVIOURAL DISORDERS II**

Chairpersons A2: Julia O. Fedotova, Fedor Jagla

**SESSION B1: RENAL AND GASTROINTESTINAL DISORDERS**

Chairpersons B1: Jana Radosinska, Libor Kopkan

**SESSION B2: RESPIRATORY DISORDERS**

Chairpersons B2: Alina E. Parvu, Jozef Torok
16:30–18:30, SYMPOSIUM, Hall 1

METABOLIC SYNDROME AND CARDIOVASCULAR RISK
Chairperson 1: Satomi Kagota, Japan
Chairperson 2: Olga Pechanova, Slovakia

Speaker 1: Olga Pechanova, Slovakia (30 minutes)
Lecture title: Experimental metabolic syndrome: standard and alternative therapies

Speaker 2: Satomi Kagota, Japan (30 minutes)
Lecture title: Compensatory effects of perivascular adipose tissue on vasodilation differ
by vascular site and age in rats with metabolic syndrome

Speaker 3: Peter Ferdinandy, Hungary (30 minutes)
Lecture title: Why do we still not have cardioprotective drugs on the market? Importance of risk factors and unbiased ways to identify drug targets

Speaker 4: Martina Cebova, Slovakia (15 minutes)
Lecture title: The effect of palmitate exposure in utero on systolic and vascular function in mice

Speaker 5: Iona Mozos, Romania (15 minutes)
Lecture title: Predictors of early arterial aging in patients with high normal blood pressure and hypertension

16:30–18:30, SYMPOSIUM, Hall 2

PATHOPHYSIOLOGY OF INTRA- & INTERCELLULAR REGULATION II
Chairperson 1: Anatolii Kubyshkin, Russian Federation
Chairperson 2: Svetlana Gusakova, Russian Federation

Speaker 1: Alexandr Kazimirsky, Russian Federation (20 minutes)
Lecture title: Features of the immunopathogenesis of atopic diseases: from expression of surface markers of lymphocytes to immunopathogenesis

Speaker 2: Svetlana Gusakova, Russian Federation (20 minutes)
Lecture title: Contractile activity of a pulmonary artery at volume change of smooth muscles cells

Speaker 3: Irina Bryndina, Russian Federation (20 minutes)
Lecture title: Sphingolipid signaling in disused skeletal muscle

Speaker 4: Iryna Fomochkina, Russian Federation (15 minutes)
Lecture title: Intercellular interactions in the endometrial hyperplasia-related inflammation development

Speaker 5: Leonid Kapilevich, Russian Federation (15 minutes)
Lecture title: General trends of myokines production under physical exercises of a different types and intensity

Speaker 6: Han Xiao, China (15 minutes)
Sympathetic stress and cardiac injuries
8:30–10:30, ORAL SESSION, Hall 2

NEUROPSYCHIATRIC DISORDERS

**Chairperson 1:** Daniela Jezova, Slovakia  
**Chairperson 2:** Artem Grigoryan, Armenia

**Speaker 1:** Artem Grigoryan et al., Armenia (15 minutes)  
**Presentation title:** The behavioral characteristics of hypokinetic syndrome in rats

**Speaker 2:** Tomas Hromadka et al., Slovakia (15 minutes)  
**Presentation title:** Systems approaches in neurodegeneration: Linking molecular pathology with cognitive deficits in Alzheimer’s disease

**Speaker 3:** Filip Tichanek et al., Czech Republic (15 minutes)  
**Presentation title:** Pathological phenotype of mouse model of rapid-onset spinocerebellar ataxia type 1

**Speaker 4:** Eszter Bogi et al., Slovakia (15 minutes)  
**Presentation title:** How can maternal stress and/or antidepressants affect behavior of rat offspring?

**Speaker 5:** Natasa Hlavacova et al., Slovakia (15 minutes)  
**Presentation title:** Patients with atopy exhibited attenuated neuroendocrine response during psychosocial stress

**Speaker 6:** Leonid P. Churilov et al., Russian Federation (15 minutes)  
**Presentation title:** On the Pathogenesis of Psychic Disorders in Hashimoto’s Thyroiditis

**Speaker 7:** Julia O. Fedotova et al., Russian Federation (15 minutes)  
**Presentation title:** Effects of vitamin D3 treatment on anxiety-like behavior of the middle-aged female rats after long-term ovariectomy (15 minutes)

**Speaker 8:** Andrea Mestanikova et al., Slovakia (15 minutes)  
**Presentation title:** Pupillometry in adolescent depression

11:00–12:20, PLENARY SESSION, Plenary hall

**Chairperson:** Yoshihiro Ishikawa, Japan

**Speaker 1:** Boris V. Krylov Russian Federation (40 minutes)  
**Lecture title:** Pathological pain: can it be safely cured?

**Speaker 2:** Ming Xu, China (40 minutes)  
**Lecture title:** G-quadruplex and heart fiction

13:30–15:30, SYMPOSIUM, Hall 1

VASCULAR DAMAGE, NOVEL MECHANISMS AND THERAPEUTIC OPPORTUNITIES

**Chairperson 1:** Concepcion Peiro, Spain  
**Chairperson 2:** Silvia Arribas, Spain

**Speaker 1:** Concepcion Peiro, Spain (30 minutes)  
**Lecture title:** Diabesity, adipokines and vascular damage: which role for interleukin-1β?

**Speaker 2:** Silvia Arribas, Spain (30 minutes)  
**Lecture title:** Vascular remodelling: therapeutic targets and opportunity windows

**Speaker 3:** Maria Bloksgaard, Denmark (30 minutes)  
**Lecture title:** Determinants of vascular smooth muscle contractility in resistance arteries from patients with residual cardiovascular disease

**Speaker 4:** Yoshihiro Ishikawa, Japan (15 minutes)  
**Lecture title:** Vascular graft made from cultured cells

**Speaker 5:** Silvia Liskova, Slovakia (15 minutes)  
**Lecture title:** Comparison of Ca²⁺-dependent Cl⁻ channels blockade and endothelium-derived constricting factor in norepinephrine-induced contraction of rat femoral artery
13:30–15:30, ORAL PRESENTATIONS, Hall 2

FOOD SUPPLEMENTS IN DISEASE PREVENTION AND TREATMENT
Chairperson 1: Patricia I. Oteiza, USA
Chairperson 2: Vittorio Calabrese, Italy

Speaker 1: Iveta Bernatova et al., Slovakia (20 minutes)
Presentation title: Involvement of calcium channels in (-)-epicatechin-induced vasorelaxation

Speaker 2: Gabriele Di Rosa et al., Italy, Germany (20 minutes)
Presentation title: Olive oil polyphenols show beneficial effects in two C. elegans Parkinson models

Speaker 3: Alina E. Parvu et al., Romania (15 minutes)
Presentation title: Polyphenolic compounds, antioxidant and cardioprotective effects of pomace extracts from Feteasca Neagra and Pinot cultivars

Speaker 4: Monika Bartekova et al., Slovakia (15 minutes)
Presentation title: Cardioprotective effects of quercetin against ischemia-reperfusion injury in isolated juvenile and adult rat hearts

Speaker 5: Lyudmila U. Belyaeva et al., Belarus (15 minutes)
Presentation title: Resveratrol attenuates NO-dependent coronary vessels tone dysregulation and modifies sirtuin-1 expression in the myocardium of prenatally stressed rats

Speaker 6: Jovana Jeremic et al., Serbia (15 minutes)
Presentation title: Cardioprotective effects of diallyl trisulfide in a rat model of type-1 diabetes mellitus

Speaker 7: Tamara Nikolic Turnic et al., Serbia (15 minutes)
Lecture title: Plasma phospholipid fatty acid profile in rats with different degree of diet-induced hyperhomocysteinemia

15:30–16:30, POSTER SESSIONS C1, C2, C3, D

SESSION C1: ATHEROSCLEROSIS AND VASCULAR DISORDERS
Chairpersons C1: Silvia M. Arribas, Andrea Berenyiova

SESSION C2: HIGH BLOOD PRESSURE
Chairpersons C2: Elzbieta Kompanowska Jezierska, Sona Cacanyiova

SESSION C3: HEART DISEASES
Chairpersons C3: Irina Guzhova, Monika Bartekova

SESSION D: TEACHING IN PATHOPHYSIOLOGY
Chairpersons D: Silvia Hnilicova, Peter F. Litvitskiy

Saturday, September 8, 2018

8:30–10:30, SYMPOSIUM, Hall 1

CHRONODISRUPTION AND LIFE STYLE DISEASE
Chairperson 1: Bert van der Horst, The Netherlands
Chairperson 2: Michal Zeman, Slovakia

Speaker 1: Michal Zeman, Slovakia (30 minutes)
Lecture title: Artificial light at night as a risk factor for health

Speaker 2: Bert van der Horst, The Netherlands (30 minutes)
Lecture title: Impact of circadian disturbance on later life health

Speaker 3: Alena Sumova, Czech Republic (30 minutes)
Lecture title: Regulation of colonic circadian clock and impact of its disruption

Speaker 4: Monika Okuliarova, Slovakia (15 minutes)
Lecture title: Effects of light at night on immune cell distribution and their daily rhythms in the circulation and tissues

Speaker 5: Kristina Hasakova, Slovakia (15 minutes)
Lecture title: Expression of clock gene in colorectal cancer patients is dependent on tumor location
8:30–10:30, ORAL SESSION, Hall 2

GASTROTTRANSMITTERS, NEUROTTRANSMITTERS AND PEPTIDES IN DISEASED STATES
Chairperson 1: Josef Zicha, Czech Republic
Chairperson 2: Vladimir Lj. Jakovlevic, Serbia

Speaker 1: Josef Zicha et al., Czech Republic (20 minutes)
Presentation title: Is Angiotensin II-Dependent Hypertension in Ren-2 Transgenic Rats Driven by Central Sympathoexcitation?

Speaker 2: Vladimir Lj. Jakovlevic et al., Serbia (20 minutes)
Presentation title: The effects of potassium cyanide on functional recovery of isolated rat heart after ischemia and reperfusion: role of oxidative stress

Speaker 3: Jozef Torok and Anna Zemancikova (15 minutes)
Presentation title: Attenuation of anticontractile effect of perivascular adipose tissue might contribute to the development of hypertension

Speaker 4: Sona Cacanyiova et al., Slovakia (15 minutes)
Presentation title: The interaction of hydrogen sulfide with NO-synthase and NO donors triggers specific vasoactive effects in isolated arteries of rats and patients with arterial hypertension

Speaker 5: Sergio Modafferi et al., Italy (15 minutes)
Presentation title: Hydrogen sulfide and its interaction with carnosine metabolism

Speaker 6: Hongzhu Li et al., China, Canada (15 minutes)
Presentation title: Exogenous H2S contributes to recovery of ischemic post-conditioning-induced cardioprotection via increase of autophagy in the aged hearts

Speaker 7: Andrea Bereniyova, Slovakia (15 minutes)
Presentation title: Age and increased blood pressure modulated the nitric oxide and hydrogen sulphide signalisations in spontaneously hypertensive rats

8:30–10:30, ORAL PRESENTATIONS, Hall 3

TEACHING IN PATHOPHYSIOLOGY
Chairperson 1: Angelika Puzserova, Slovakia
Chairperson 2: Georgi M. Sarov, Bulgaria

Speaker 1: Zdenko Kovac, Croatia (30 minutes)
Presentation title: Integrative education and cognitive tools for tomorrow medicine: Pathophysiological reactivity outlined via algorhytmic networks and etiopathogenetic clusters fits the criteria of graph theory

Speaker 2: Georgi M. Sarov et al., Bulgaria (20 minutes)
Presentation title: The role of pathophysiology in building medical knowledge

Speaker 3: Silvia Hnilicova et al., Slovakia (20 minutes)
Presentation title: Simulation-Based Learning in Human Physiology and Pathophysiology at Comenius University

Speaker 4: Artem Grigoryan et al., Armenia (20 minutes)
Presentation title: “Becoming a cancer” board game as a form of a practical class in pathophysiology

Speaker 5: Peter F. Litvitskiy, Russian Federation (20 minutes)
Presentation title: Systemic multilevel teaching of pathophysiology in a medical school

10:30–11:30, POSTER SESSIONS E1, E2, E3

SESSION E1: INFLAMMATION
Chairpersons E1: Tamara Nikolic, Anna Vasku

SESSION E2: CANCER
Chairpersons E2: Johanne Tremblay, Han Xiao

SESSION E3: METABOLIC DISORDERS
Chairpersons E3: Vladimir Zivkovic, Martina Cebova