

**NEUROCARD 2018 – FINAL PROGRAM**  
12<sup>th</sup> – 13<sup>th</sup> October 2018 , Hilton Hotel, Belgrade, Serbia

October 12<sup>th</sup>

**08:00-09:00**      **Registration**

**09:00-09:30**      **Opening Ceremony**

**Branislav Milovanovic**

President of Serbian Neurocardiological Society, Chairmen of the meeting

**Zlatibor Loncar**

Minister of Health of the Republic of Serbia

**Mladen Šarčević**

Minister of Science of the Republic of Serbia

**Nebojsa Lalic**

Dean of Faculty of Medicine University of Belgrade

**Marija Zdravkovic**

General Manager of the University Hospital Medical Center “Bezanijska kosa”

**Zorica Rasic Milutinovic**

President of Serbian Autonomic Society

**Nina Japundzic-Zigon**

President of Serbian Working Group of Basic Neurocardiology

**Ana Dikić Djordjevic**

President of Serbian Cardiological Society

**Iwona Cygankiewicz**

Lodz, Poland  
President elect of ISHNE

**Galal Elkilany**

UAE, Dubai  
President of International College of Cardiology

**Reuven Zimlichman**

Tel Aviv, Israel

**Bassim Irheim Muhammad,**

Al Qadisiyah, Iraq  
Dean College of Pharmacy, University of Al Qadisiyah

**Emanuela Locati**

Milan, Italy  
Member of ISHNE board

**Ludovit Gaspar**  
Bratislava, Slovak Republic

**David Murphy**  
Bristol, UK

**Jerzy Krzysztof Wranicz**  
Lodz, Poland  
Member of ISHE board

**Harald M. Stauss**  
Iowa City, USA

**Falko Skrabal**  
Graz, Austria

**09:30-11:10 New Advances in Cardiovascular Diagnostics**  
Chairs: Branislav Milovanovic (Belgrade, Serbia), Jerzy Wranicz (Lodz, Poland)

**09:30- 09:50 Artificial intelligence in risk stratification by patients with myocardial infarction**  
Branislav Milovanovic, (Belgrade, Serbia)

**09:50-10:10 Atrial fibrillation in athletes**  
Iwona Cygankiewicz,(Lodz,Poland)

**10:10- 10:30 What's new in monitoring patients with implanted devices?**  
Jerzy Krzysztof Wranicz,( Lodz, Poland)

**10:30-10:50 New Classification of Cardiomyopathy: Who are at Risk?**  
Galal Elkilany,( Dubai,UAE )

**10:50-11:10 Cardiac magnetic resonance imaging: It's additional value for the evaluation of ischemia**  
Fabiola B Sozzi , (Milan, Italy)

**11:10-11:30 Cardomagnetic resonance – are we closer to the revealing the relationship of the microcirculation and HFpEF ?**  
Marija Zdravković, Maja Popović, Milica Aleksic, Sasa Hinic, Jelena Djokic, Branislav Milovanovic, Zorana Vasiljevic (Belgrade, Serbia)

**11:30-11:45 Coffee break**

**11:45-12:10 Lecture I**  
Falco Skrabal (Graz, Austria)

**11:45-12:10 Assessment of Heart Mechanics, Hydration Changes, Appendicular Muscle Mass, Trunk Fat and of the Autonomic Nervous System during the 12 Channel Routine ECG: Including Live Demo of the Combyn™ ECG**

Falko Skrabal, Katharina Skrabal,(Graz, Austria)

**12:10-12:40 Lecture II**  
Reuven Zimlichman (Tel Aviv, Israel)

**12:10-12:40 History of hypertension and it's relation to the new guidelines**

Reuven Zimlichman, (Tel Aviv, Israel)

**12:40-13:40 Cardiac Autonomic Dysfunction and Neurological Diseases**

Chairs: Sanja Pavlovic (Belgrade, Serbia), Osman Sinanovic (Tuzla, BiH),  
Jorge I.Celis (Meddellin, Colombia)

**12:40-13:00 Cardiologic decisions under neurologic disorders**

Jorge I. Celis, (Medellin-Colombia)

**13:00-13:20 Neurogenic sudden death in patients with cerebrovascular disease**

Sanja Pavlovic, Branislav Milovanovic (Belgrade, Serbia)

**13:20-13:40 Cardiac involment in myotonic dystrophy**

Osman Sinanovic (Tuzla, Bosnia and Herzegovina)

**13:40-14:30 Lunch**

**14:30-16:35 Basic Neurocardiology I**

Chairs: Nina Japundzic-Zigon (Belgrade, Serbia), David Murphy (Bristol, UK),  
Dragan Djuric (Belgrade, Serbia), Harald Stauss (Iowa City)

**14:30-14:50 Linkages between osmoregulation and ingestive behaviors are encoded in vasopressinergic-dynorphinergic projections from hypothalamus to amygdala 20 min**

David Murphy, Olivera Šarenac, Mingkwan Greenwood, Michael Greenwood, Nina Japundžić-Žigon,  
( Bristol,England)

**14:50-15:10 Effect of Chronic Vagal Nerve Stimulation on Glucose Tolerance in Conscious Rats**

Harald M. Stauss,( Iowa City, USA)

**15:10-15:30 Acute and subchronic effects of sulphur amino acid homocystine and methionine on rat cardiovascular system: focus on cardiodynamic variables, biochemical and oxidative stress parameters**

Djuric D, Micovic Z, Kostic S, Obrenovic R, Stankovic S, Krstic D, Labudovic Borovic M, Jakovljevic Uzelac J, Mutavdzin S, Sobot T, Nikolic T, Srejovic I, Zivkovic V, Jakovljevic V, (Belgrade, Serbia)

**15:30-15:50 Myocardial infarction after chronic treatment with the COX2 inhibitor rofecoxib reveals its hidden cardiotoxic effect**

Gábor B Brenner, Anikó Görbe, András Makkos, Csilla Terézia Nagy, Zsófia Onódi, Nabil Sayour, Tamás Gergely, László Tóthfalusi, Zoltán Giricz, Péter Ferdinandy (Budapest, Hungary)

**15:50- 16:05 Could determination of BCL-2 and CASPASE-3 activity indicate plaque evolution in ischemic heart disease patients?**

T. Ristic, B.V. Djordjevic; P. Vlahovic, V. Cosic, M. Deljanin-Ilic (Nis, Serbia)

**16:05-16:20 BPV, HRV and  $\beta$ -ARs gene expression at two stages of doxorubicin-induced cardiomyopathy**

Marko Vasić, Tatjana Tasić, Marija Matić, Sofija Glumac, Dragana Bajić, Branka Popović and Nina Japundžić-Žigon, (Belgrade, Serbia)

**16:20-16:35 The cytotoxic effect of eight different essential oils on squamous and basal cell carcinoma cells**

Miloš Lazarević, Maja Milošević, Slobodan S. Petrović, Nada V Petrovic, Branislav Milovanović, Jelena Milašin (Belgrade, Serbia)

**16:35-18:00 Autonomic Nervous System I**

Chairs: Natasa Markovic (Belgrade, Serbia), Zorica Rasic Milutinovic (Belgrade, Serbia), Gordana Pekovic Perunicic (Belgrade, Serbia)

**16:35-16:50 Autonomic dysfunction as in end stage renal disease (ESRD) patients**

Gordana Pekovic, Zorica Rasic-Milutinovic, Branislav Milovanovic (Belgrade, Serbia)

**16:50-17:05 Cardiac autonomic neuropathy in Type 2 diabetic patients- do we neglect the effect of age and gender?**

Zorica Rasic-Milutinovic (Belgrade, Serbia) and Dragana Bajic (Novi Sad, Serbia), Branislav Milovanovic, Gordana Perunicic-Pekovic, Biljana Pencic (Belgrade, Serbia)

**17:05-17:20 Renal failure as a predictor of type of treatment and survival after first acute myocardial infarction**

Nataša Marković- Nikolić, Milica Dekleva, Milica Mićović, Ana Čolić- Ozmo, Vladimir Novaković, Sreten Budisavljević, Aleksandar Davidović, Dane Cvijanović, Branko Beleslin, Tatjana Damjanović, Nada Dimković. (Belgrade, Serbia)

**17:20-17:35 Serum uric acid as a possible marker for thrombosis in patients with antiphospholipid syndrome**

Aleksandra Đoković, Ljudmila Stojanović, Sandra Đokić, Branislava Todić, Nataša Stanisavljević, Sasa Hinic, Branislav Milovanovic, Marija Zdravkovic (Belgrade, Serbia)

**17:35-17:50 Autonomic regulation of sinoatrial node in COPD during remission and exacerbation**

Angelia I. Milaschenko, Vladimir A. Mironov, Tatiana F. Mironova, Arkady N. Andreev, Artem A. Popov, Anna V. Akimova, Ekaterina V. Tarasova, Marina V. Beltyukova (Yekaterinburg, Russian Federation)

**17:50-18:05 Phenotypic signs of connective tissue dysplasia in the diagnosis of intracranial aneurysms**  
A.V. Akimova, V.A. Mironov, B. Milovanovic, D.A. Goncharova, A.V. Drozdova, M.Yu. Burakov  
(Yekaterinburg, Russian Federation)

**18:05-19:50 Implantable Cardiac Devices and Electrocardiography**  
Chairs: Jerzy Krzysztof Wranicz (Lodz, Poland), Iwona Cygankiewicz (Lodz, Poland)

**18:05-18:20 Big-data and crowdsourcing in heart care platform: ECG for Everybody**  
Stevan Jokic, Ivan Jokic, Branislav Milovanovic, (Novi Sad, Serbia)

**18:20-18:35 ECG patterns in patients with cardiac contractility**  
Izabela Poddębska, (Lodz, Poland)

**18:35-18:50 Role of cardio-neuroablation in neurally mediated syncope**  
Agnieszka Stasiak Maszk, (Lodz, Poland)

**18:50-19:05 Merging together the new cardiac implantable electronic devices - single center and global experience**  
Michał Kałowski (Lodz, Poland)

**19:05-19:20 Implantable devices in athletes**  
Krzysztof Wranicz Jr, (Lodz, Poland)

**19:20-19:35 Sex steroid hormones as predictors in prevalence of ventricular arrhythmias in males who are qualified for ICD implantation due to primary prevention of sudden cardiac death.**  
**Are sex steroid hormones predictors in prevalence of ventricular arrhythmias in male patients qualified for ICD implantation in primary prevention of SCD?**  
Ewa Oszczygiel, Andrzej Oszczygiel, (Lodz, Poland)

**19:35-19:50 Impact of motor muscle asymmetry in the electrical activity of the myocardium**  
Pavlov V.I., Plotnikov S.G., Volkova O.S., Rezapov A.S., Odzhonikidze Z.G., Badtieva V.A., Gvinianidze M.V.  
(Moscow, Russia)

**20:30 Gala dinner, Restaurant**

## October 13th

### **09:00-11:20 Basic Neurocardiology II**

Chairs: Nina Japundzic-Zigon (Belgrade, Serbia), Dragan Djuric (Belgrade, Serbia),  
Bassim I Mohammad (Al Qadisiyah, Iraq), Harald Stauss (Iowa City)

#### **09:00- 09:20 Effect of Cervical Vagal Nerve Stimulation on Glucose Metabolism in Patients with Epilepsy**

Harald M. Stauss MD, Lucienne Daman, Megan Rohlf, MD, and Rup K. Sainju, M.B.B.S.,  
(Iowa City, USA)

**09:20-09:40 Prediabetes induces diastolic dysfunction and neuropathy in rats** Gábor Koncsos, Zoltán V. Varga, Tamás Baranyai, , Tamás Radovits, Attila Oláh, Csaba Mátyás, Árpád Lux, Tímea Komlódi, Mahmoud Al-Khrasani, Domokos Máthé, László Tretter, Zoltán Giricz, Rainer Schulz, Péter Ferdinandy (Budapest, Hungary)

#### **09:40-10:00 Pharmacological Protection Against Myocardial Injury In Patients Undergoing Coronary Artery Bypass Grafting Surgery; The Role Of Melatonin**

Najah R. Hadi (Najaf, Iraq), Bassim I Mohammad, (Al Qadisiyah, Iraq)

#### **10:00-10:20 Arrhythmogenic Potential of Antibiotics: Concept of Pharmacogenomics**

Bassim I Mohammad, Najah R. Hadi (Najaf, Iraq)

#### **10:20-10:35 The influence of oral C60 fullerene on the oxidative capacity of the heart, lipid profile and homeostasis of glucose and vitamin C in the rat serum**

Siniša Đurašević, Snežana Pejić, Nebojša Jasnić, Tomislav Tosti, Jelena Đorđević, Zoran Todorović  
(Belgrade, Serbia)

#### **10:35-10:50 Over-expression of V1aR, V1bR and OTR in the PVN of the rat hypothalamus affects cardiovascular response to acute stress**

Maja Lozić, Nina Japundžić-Žigon, Michael Greenwood, David Murphy, (Belgrade, Serbia)

#### **10:50-11:05 The level of expression of V1aR, V1bR and vasopressin in the hypothalamic paraventricular nucleus in stress-induced hypertension**

Bojana Savić, Nina Japundžić-Žigon, Olivera Šarenac, Andrew Martin, David Murphy (Belgrade, Serbia)

#### **11:05-11:20 Cardiac oxidative stress in experimental model of diabetes mellitus in rats - the role of folic acid**

Slavica Mutavdzin, Kristina Gopcevic, Jovana Jakovljevic Uzelac, Jovan Despotovic, Sanja Stankovic, Milica Labudovic Borovic, Dragan Djuric (Belgrade, Serbia)

#### **11:20-11:50 Coffee break**

**11:50-12:55 Syncope**

Branislav Milovanovic (Belgrade,Serbia),Nikola Vojvodic(Belgrade,Serbia)

**11:50-12:20 Chronic fatigue syndrome and syncope-new advances and therapy**

Branislav Milovanovic (Belgrade,Serbia)

**12:20-12:40 Epileptic Syncope: Myth or Reality?**

Nikola Vojvodic, Masa Kovacevic, Tijana Djukic, Aleksa Pejovic, Aleksandar Ristic, Dragoslav Sokic (Belgrade, Serbia)

**12:40-12:55 Autonomic failure with blood pressure dysregulation, case report**

Jan Galuszka, Michaela Kaiserová,Karel Vykoupil, Grambalová Zuzana, Ivana Buriánková, Pavla Doupalová, Miloš Táborský (Olomouc,Czech Republic)

**12:55-13:25 Lecture III**

Miodrag Ostojic (Belgrade, Serbia)

**12:55-13:25 The significance of exercise provoked arrhythmia: what is the role of autonomous nervous system?**

Miodrag Ostojic (Belgrade, Serbia)

**13:25-14:15 Lunch**

**14:15-16:10 Sudden Cardiac Death: Risk Stratification**

Chairs: Emanuela Locati (Milan, Italy),Nebojsa Tasic (Belgrade,Serbia),Biljana Pencic (Belgrade,Serbia)

**14:35-14:55 The significance of Holter ECG in noninvasive risk stratification for sudden cardiac death**

Emanuela Locati,(Milan,Italy)

**14:55-15:15 Cardiocerebralsyndroms and role of noninvasive imaging**

Krasimira Hristova (Sofia , Bulgaria)

**15:15-15:35 Blood Pressure Variability and Cardiovascular Risk**

Ludovit Gaspar,Andrea Komornikova,Veronika Vestenicka, (Slovak Republic)

**15:35-15:55 Multidisciplinary approach in control of cardiovascular risk factors**

Nebojsa Tasic,(Belgrade,Serbia)

**15:55-16:10 Young women and chest pain: when spontaneous coronary artery dissection should be taken into consideration**

Fabiola B Sozzi,(Milan, Italy)

## **16:10-17:55 Autonomic Nervous System II**

Ludovit Gaspar (Bratislava, Slovak Republik), Krassimira Hristova (Sofia,Bulgaria)

**16:10-16:25 In silico insightsfor therapeutic targeting of autonomic nervous system in classical neurocardiovascular diseases (neurogenic hypertension, vasovagal syncope) and in raising pathologies complicated bydysautonomic impact (chronic hepatitis C and chronic tinnitus)**

Bojić T, Perović VR, Senčanski M and Glišić S (Belgrade, Serbia)

**16:25-16:40 Vestibulo-vegetative reactions of heart rate variability in conditions of trip in various types of rail vehicles**

E.Yu. Bersenev, A.I. Kirpicheva, V.I. Dubinin , Yu.N. Semenov (Moscow, Russia)

**16:40- 16:55 Cardiac autonomic nervous system activity and cardiometabolic profile in obesity subgroups**

Rastović Marina, Srdić-Galić Biljana, Barak Otto, Stokić Edita, Jurišić Vladimir, Snežana Broćeta, Branislav Milovanović (Belgrade,Serbia)

**16:55-17:10 Heart rate variability in COPD with and without pulmonary hypertension**

Angelia I. Milaschenko, Vladimir A. Mironov, Arkady N. Andreev, Artem A. Popov, Tatiana F. Mironova (Yekaterinburg, Russian Federation)

**17:10-17:25 Diabetes mellitus and atrial fibrillation**

Biljana Pencic,(Belgrade,Serbia)

**17:25-17:40 Multidisciplinary evaluation of children with neonatal abstinence syndrome and fetal alcohol syndrome**

Ella Selak Bagaric,(Zagreb, Croatia)

**17:40-17:55 Neurodevelopmental consequences of adverse childhood experiences: Is there a secret connection**

Vanja SlijepcevicSaftic,( Zagreb, Croatia)

## **17:55 -19:10 Biosignal Processing and Artificial Intelligence**

Chairs: Dragana Bajic (Belgrade, Serbia), Konstantinos Katzis (Cyprus)

**17:55-18:15 Balancing Safety and Security in Implantable Medical Devices**

Konstantinos Katzis, Richard W. Jones and George Despotou,(Cyprus)

**18:15-18:35 Parameter selection for reliable supervised and unsupervised distinction of diabetes patients**

Dragana Bajić, Tamara Škorić , Slađana Jovanović , Milan Jovanović, Branislav Milovanović , Zorica Rašić-Milutinović (Belgrade, Serbia)

**18:35-18:55 Machine learning techniques in cardiology: possibilities and implementation for myocardial infarction 20 min**

Slađana Jovanović,Milan Jovanović , Branislav Milovanović , Dragana Bajić (Belgrade, Serbia)

**18:55-19:10 Internet of Things and Mobile crowdsensing in hypertensive patients**

Tamara Škorić and Slađana Jovanović, Milan Jovanović, Branislav Milovanović, Konstantinos Katzis, Dragana Bajić (Belgrade, Serbia and Cyprus)

**19:10-19:30 Closing of meeting**



## E/posters

### **1. Protective roles of neuropeptides in diabetes-induced cardiomyopathy**

Ernest Adeghate, Chris Howarth, Jaipaul Singh (Preston,UK)

### **2. Use of gene therapy to treat diabetes-induced cardiomyopathy**

Jaipaul Singh PhD, DSc, , Yasir Parviz (UK , Dubai, UAE) and Keshore R. Bidasee,(Preston,UK)

### **3. Gene therapy involving MG-degrading enzyme glyoxalase-1 (Glo-1) can treat cardiac dysfunction in diabetic cardiomyopathy**

Jaipaul Singh (Preston, UK) and Keshore Bidasee (Preston UK)

### **4. The heart rate variability in autonomic stress testing in young men**

Akimova AV, Mironov VA ,Milashchenko AI, Gagiev VV, Khasanova GN, Tregubov KA, Lyagaeva AG, Arapova NV

### **5. Analysis of defects prehospital medical aid in acute coronary syndromes**

D.F. Khusainova, A.V. Akimova, V.I. Belokrinitsky, L.A. Sokolova (Jekaterinburg,Russia)

### **6. Nocturnal second-degree atrioventricular block and suspected sleep apnea – case report**

Katarzyna Matyjas (Lodz,Poland)

### **7. Especially of athletes skin microcirculation**

Rezepov A.S., Volkova O.S., Pavlov V.I., Odzhonikidze Z.G., Badtieva V.A., Gvinianidze M.V. (Moscow, Russia)

### **8. Cardomagnetic resonance - the powerful tool in the diagnosis of the sudden cardiac death**

Marija Zdravkovic, Maja Popovic, Milica Aleksic, Sasa Hinic, Jelena Djokic, Branislav Milovanovic, (Belgrade, Serbia)

### **9. Effect of *Momordica charantia* (bitter melon) extract, kuguacin-J, alpha, beta momorcharin and commercial anti-cancer drugs on several different cancer cell lines *in vitro***

Jaipaul Singh, Abdullah A Ansari, Chahnez Houacine, Emanuel Cummings and Guna sekaran Manoharan (Preston, England, UK)

### **10. Diabetes-induced neuropathy and down regulation of transporting proteins can lead to sudden cardiac death**

Jaipaul Singh, Yasir Parviz and Yu Zhang  
( Preston, UK , Dubai, UAE, Manchester, UK)

### **11. Data correction and power spectrum density estimation in hypertensive patients**

Gorana Marković, Nikolina Tomić, Sara Dobošarević, Jovana Arsenović, Branislav Milovanović, Dragana Bajić, Tamara Škorić (Belgrade, Serbia)