

FINAL ANNOUNCEMENT

In 2016, the **3rd European Section Meeting of the International Academy of Cardiovascular Sciences (IACS)** coincides with the 20th Anniversary of the founding of the International Academy of Cardiovascular Sciences by Professor Naranjan Dhalla. On this very special occasion, the meeting is held between October 1-4 on a cruise ship operated by Pullmantur Cruises (based in Spain), fully equipped with facilities to hold such a scientific meeting. On behalf of the IACS and the Organizing Committee we have great pleasure in inviting you to this fascinating scientific meeting presented on the following topics:

- **Clinical and theoretical aspects of ventricular arrhythmias and sudden cardiac death**
- **Atrial fibrillation: clinical therapy, novel and future strategies of AF management**
- **Clinical and theoretical aspects of heart failure**
- **Cardioprotection, clinical application of cardioprotection**
- **Genetics and cardiovascular disease**
- **Coronary angiogenesis from bench to bedside**



The translational scientific meeting will feature both basic science and clinical sessions, including lectures of invited speakers and oral communications selected from submitted abstracts. We would like to provide opportunities for a number of young investigators to discuss their latest results in both oral and poster presentations.

We believe that your participation will greatly contribute to the success of the meeting and provide an opportunity to discuss the latest advances in experimental and clinical cardiovascular research. In addition to high quality science, the organisers wish to provide a friendly atmosphere aboard ship and in addition, various relaxing and cultural programmes will be available. We invite you to join us at this meeting, to renew old friendships, and to make new ones! Updated information and the application form will be available on the homepage of IACS European Section:

<http://www.iacs.sav.sk/meetings.html>

Chairman of the Meeting: Prof. András Varró, MD, DSc

Honorary Chairman of the Meeting: Prof. Naranjan S. Dhalla, PhD, MD (Hon), DSc (Hon)

Organizing secretariat:

Dr. István Baczkó, Dr. Norbert Jost, Dr. László Virág

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Scientific Advisory Board

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Guy Vassort, Montpellier, France

Ágnes Végli, Szeged, Hungary

Karl Werdan, Halle, Germany

PUBLICATION OPPORTUNITY FOR PRESENTERS

The abstracts of all oral and poster presentations (except late registration abstracts) are published in *Current Research: Cardiology* (Vol 3, No 3 Autumn, 89-116, 2016). Presenters will be encouraged to submit a full manuscript based on the material presented at the conference for consideration to be published in the *Canadian Journal of Physiology and Pharmacology* or *Current Research: Cardiology*. Manuscript submissions will be subjected to peer-review process.

ORAL PRESENTATIONS

Please provide your talk (preferably PowerPoint) on a USB memory stick to the assistant in the conference room scheduled for your talk at least 15 min before your session starts. Laptops running Microsoft Windows operating systems will be used at the conference. Apple users should bring their own cables to connect their computers to a standard VGA connector. If you wish to use your own laptop, please notify staff in the room at least 15 min prior to the session. The duration of oral presentations are 20 minutes including discussion (except plenary lectures). The duration of Young Investigator Award Competition talks: 10 min + 5 min discussion.

POSTER PRESENTATIONS

Please prepare your poster in the "Portrait" layout (orientation). Poster dimensions should be the following:

Width: 86-90 cm; Height: 120-140 cm.

Poster boards (width: 100 cm), adhesive tapes and plasticine will be provided to presenters.

There will be two poster sessions: **Karl Werdan Poster Session** – October 1, 17:00-19:00 for posters with even numbers, and **Keld Kjeldsen Poster Session** – October 2, 17:00-19:00 for posters with odd numbers. Poster numbers will follow the poster abstract numbers published in the supplement of *Current Research: Cardiology* (included in the conference materials package on site).

CONFERENCE ROOMS

All plenary lectures will be presented on Deck 7, in the Theatre ("Lecture Hall A" - Salon Broadway). On Deck 8, you can find the Disco Bar ("Lecture Hall B" - Rainbow Disco), the Library ("Lecture Hall C" – Biblioteca), the Card-room ("Lecture Hall D" – Sala de Cartas), and on Deck 7, the Conference Room ("Lecture Hall E").

Ship Embarkation: 11:00-12:30, October 1, 2016.

PIER 183, TERMINAL B, môle Léon Gourret, port of Marseille, Marseille, France.

The **Marseille Provence Cruise Center** is accessed via **gate 4** of the **Grand Port Maritime de Marseille**. Port of Marseille - Gate 4, Chemin du Littoral, 13015 Marseille.

Ship Arrival: October 4, 2016. Please note that m/v Zenith will be docked at **Terminal B, Pier 181**.

CONFERENCE PROGRAM

Ship embarkation: Marseille, France, 11:00-12:30, October 1, 2016.

Day 1 (October 1, 2016) – Ship leaves Marseille, France

11:00–12:30 Ship embarkation (separate check-in desks for conference attendees provided)
12:30–13:30 Lunch

Lecture Hall A (Theatre): **PLENARY LECTURES**

Chairs: András Varró/Bohuslav Ošt'ádal

14:00–14:10 Opening ceremony

14:10–14:50 **Naranjan Dhalla Honorary Lecture**

Ursula Ravens, Freiburg, Germany

Antiarrhythmic drugs in atrial fibrillation – do we know what to target?

14:50–15:30 **20th Anniversary of IACS – Ceremonial Plenary Lecture**

Naranjan Dhalla, Winnipeg, Canada

Antiplatelet agents as a novel therapy of heart failure due to myocardial infarction

16:00–17:00 **Safety regulations presentation and drill by Pullmantur staff**

Lecture Halls C and E (Library Room and Conference Room)

17:00–19:00 **Karl Werdan Poster Session** (even poster numbers, with wine and cheese)

Jury: Deepak Srivastava, Belma Turan, Judit Barta, Monika Bartekova, Thomas Jespersen, András Farkas

21:00–23:00 Dinner

Day 2 (October 2, 2016) – Ship arrives in Livorno, Italy (~ 7:00 AM)

Facultative program for accompanying persons: Excursion to Pisa and Florence



Parallel sessions in Lecture Halls B (Disco Bar), C (Library), D (Cardroom) and E (Conference Room)

9:00–10:30 Parallel oral sessions (invited speakers and oral abstract presentations)

Lecture Hall B – Clinical (Disco Bar)

Chairs: Karl Werdan/Vladimir Jakovljevic

Frans HH Leenen, Ottawa, Canada (O 20)
Role of CNS MR - AT₁R signaling in heart failure

Karl Werdan, Halle, Germany (O 37)
Septic cardiomyopathy

Vladimir Jakovljevic, Kragujevac, Serbia (O 14)
Oxidative stress in exercise: possible interventions with antioxidants for better adaptation

Lecture Hall C – Basic science (Library)

Chairs: Ferenc Gallyas/Danina Muntean

Ferenc Gallyas, Pécs, Hungary (O 10)
Role of mitochondrial integrity and network dynamics in regulation of cell death

Bohuslav Ošt'ádal, Prague, Czech Republic (O 25)
Protection of the developing heart- possible role of mitochondria

Danina Muntean, Timisoara, Romania (O 22)
Improvement of mitochondrial function by methylene blue in experimental diabetes: a promising case of drug repurposing

Lecture Hall D – Basic science (Cardroom)

Chairs: Antonio Zaza/Dobromir Dobrev

Dobromir Dobrev, Essen, Germany

New insights into the molecular mechanisms of paroxysmal atrial fibrillation

Antonio Zaza, Milan, Italy (O 39)

Modulation of the intracellular calcium store as an antiarrhythmic endpoint

Thomas Jespersen, Copenhagen, Denmark (O 15)

Combined effect of class III antiarrhythmic agents and Ca²⁺-activated K⁺ (SK) channel inhibition in an isolated heart model of atrial fibrillation

Tamás Csont, Szeged, Hungary

Hypercholesterolemia-induced oxidative/nitrative stress and cardiac dysfunction: the role of NADPH oxidases and microRNA-25

10:30–11:00 Coffee break

Lecture Hall A (Theatre): PLENARY LECTURES

Chairs: Zoltán Csanádi/Dobromir Dobrev/Grant Pierce

11:00–11:40 **Kálmán Tóth**, Pécs, Hungary

Myocardial and vascular protection by PARP inhibitors

11:40–12:20 **David Eisner**, Manchester, UK

Systolic and diastolic calcium: in and out of control

12:20–13:00 **Gary Lopaschuk**, Edmonton, Canada

Targeting cardiac fatty acid oxidation to treat heart failure

13:00–15:00 Lunch

Parallel sessions in Lecture Halls A (Theatre), B (Disco Bar), C (Library), D (Cardroom)

15:00–16:50 Parallel oral sessions (invited speakers and oral abstract presentations)

Lecture Hall A (Theatre) – Young Investigator Award Competition

Chairs & Jury: Ursula Ravens/Gary Lopaschuk/Ján Slezák/Helen Maddock/Zoltán Papp/Rakesh Kukreja

Safa Abdul Ghani, Bristol, UK (YIA1)

Remote ischemic preconditioning triggers changes in heart rate, heart rate variability, microcirculatory blood flow and cardiac energetics

Nevena Jeremic, Louisville, USA (YIA2)

Ablation of TLR-4 mitigates blood pressure response during hyperhomocysteinemia

Kornél Kistamás, Manchester, UK (YIA3)

Dependence of diastolic calcium levels on frequency and extracellular calcium concentration

Victoria L Mascetti, Cambridge, UK (YIA5)

Human-mouse chimerism validates human stem cell pluripotency and cardiovascular differentiation

Marta Rusek, Lublin, Poland (YIA6)

Effect of bisphosphonates on paraoxonase 1 (PON1) activity and gene expression in various tissues in patients with coexisting osteoporosis and increased risk of atherosclerosis

Krisztina Váczi, Debrecen, Hungary (YIA7)

Sarcolemmal Ca²⁺-entry through L-type Ca²⁺ channels controls the profile of Ca²⁺-activated Cl⁻ current in canine ventricular myocytes

Lecture Hall E – Basic science (Conference Room)

Chairs: Tania Ravingerova/Ricardo Gelpi

Tania Ravingerova, Bratislava, Slovakia (O 29)

Activation of peroxisome proliferator-activated receptors as a potential mechanism of remote preconditioning-induced cardioprotection in healthy and diseased hearts

Ricardo Gelpi, Buenos Aires, Argentina

Myocardial triggers involved in remote ischemic preconditioning activation

Frantisek Kolar, Prague, Czech Republic (O 17)

Cardioprotective effect of chronic hypoxia combined with exercise training

Csaba Csonka, Szeged, Hungary

Decellularized extracellular matrix (ECM) against ischemia-reperfusion injury

Lecture Hall B – Basic science (Disco Bar)

Chairs: Devendra Agrawal/Jerzy Beltowski

Devendra Agrawal, Omaha, USA (O 1)

Novel mechanisms underlying instability of plaques in atherosclerotic arteries

Jerzy Beltowski, Lublin, Poland (O 5)

Effect of statins on vitamin D metabolites: implications for pharmacotherapy of cardiovascular diseases

Zoltán Papp, Debrecen, Hungary (O 26)

New vasodilators, inotropes and modulators in the management of acute heart failure

Paramjit S Tappia, Winnipeg, Canada (O 33)

A novel foot bathing approach for the treatment of foot ulcers due to peripheral arterial disease: a case study

Hideo A Baba, Essen, Germany (O 2)

Bathing in CO₂ enriched water alters protein expression in keratinocytes of skin tissue

Lecture Hall C – Clinical (Library)

Chairs: Chandrasekharan Kartha/Ramesh Goyal

Zoltán Csanádi, Debrecen, Hungary (O 8)
Mechanisms of atrial fibrillation: lessons from a 20-year experience of transcatheter ablation

Chandrasekharan Kartha, Kerala, India (O 16)
Tetralogy of Fallot: molecular defects in the cardiac right ventricle out-flow

Ramesh G Goyal, Chennai, India (O 12)
Genome based diagnostics and therapeutics in cardio-vascular complications: any light in the tunnel?

Deepak Srivastava, San Francisco, USA (O 31)
Cellular reprogramming approaches for cardiovascular disease

Lecture Hall D – Basic science (Cardroom)

Chairs: Dinender K Singla/M.-Saadeh Suleiman

Michael Czubryt, Winnipeg, Canada (O 7)
Development of novel therapeutics for cardiac fibrosis

Dinender K Singla, Orlando, USA
Stem cells derived exosomes attenuate adverse cardiac remodeling in doxorubicin induced cardiomyopathy

M.-Saadeh Suleiman, Bristol, UK (O 32)
The role of cAMP/PKA/Epac signalling pathway in cardioprotection

Anikó Görbe, Budapest, Hungary (O 11)
Cell-based platforms for cardioprotection

Monika Bartekova, Bratislava, Slovakia (O 4)
Potential effects of quercetin in cardioprotection

Lecture Halls B and C (Conference Room and Library Room)

17:00–19:00 **Keld Kjeldsen Poster Session** (odd poster numbers, with wine and cheese)

Jury: Deepak Srivastava, Belma Turan, Judit Barta, Monika Bartekova, Thomas Jespersen, András Farkas

21:00–23:00 Dinner

Day 3 (October 3, 2016) – Ship arrives in Bastia, Corsica (~ 7:00 AM)

Free Time – Optional Social Program: Corsica excursion – approx. 50€/person (by Pullmantur)



13:00–15:00 Lunch

[14:00–16:00] IACS Board Meeting for Council members (**Teens' Club Room**)

Parallel sessions in Lecture Halls A (Theatre), B (Disco Bar), C (Library), D (Cardroom)

15:00–17:00 Parallel oral sessions (invited speakers and oral abstract presentations)

Lecture Hall A – Clinical (Theatre)

Chairs: Simona Dragan/Buttar S Harpal

Grant Pierce, Winnipeg, Canada (O 27)
Addressing the problem of hypertension

Simona Dragan, Timisoara, Romania (O 9)
Predictors of progression of coronary heart disease in the clinical setting: life is not mathematics

Buttar S Harpal, Ottawa, Canada (O 6)
Clinical evidence for the benefits of mediterranean-type diet and lifestyle modifications in the prevention of cardiovascular diseases

Lidia Hategan, Szeged, Hungary (O 40)
Screening for known and novel genetic variants in ion channel diseases with next generation sequencing

Lecture Hall B – Clinical (Disco Bar)

Chairs: Helen Maddock/András Farkas

Helen Maddock, Coventry, UK
New therapeutic strategies to protect the heart from cancer drugs

Hiroaki Hasebe, New York, USA (O 13)
Utilization of near infrared spectroscopy imaging of chronic wound by CO₂ enriched water foot bathing treatment

András Farkas, Szeged, Hungary
Acquired long QT syndrome: does it matter for the clinician or just for the safety pharmacologist?

István Koncz, Szeged, Hungary (O 18)
Early repolarization syndrome

Lecture Hall C – Basic science (Library)

Chairs: Katja E Odening/Tamás Radovits

Katja E Odening, Freiburg, Germany (O 24)

Transgenic rabbit models for inherited arrhythmia disorders long-QT and short-QT syndrome

Tamás Radovits, Budapest, Hungary (O 28)

(Patho)physiology of athlete's heart

Norbert Nagy, Szeged, Hungary (O 23)

Possible therapeutic implications of the selective cardiac $\text{Na}^+/\text{Ca}^{2+}$ exchanger inhibition: what can we learn from the pharmacological studies?

Attila Farkas, Szeged, Hungary (O 41)

The assessment of structural remodeling and proarrhythmic sensitivity in a new rabbit athlete's heart model

László Virág, Szeged, Hungary (O 36)

Cellular electrophysiological investigation of the chronic and acute effects of desethylamiodarone in dog cardiac ventricular preparations

Lecture Hall D – Basic science (Cardroom)

Chairs: Rakesh Kukreja/Belma Turan

Ján Slezák, Bratislava, Slovakia (O 30)

Protection of the heart in situations of increased production of oxygen free radicals: radiation and reperfusion injury

Belma Turan, Ankara, Turkey (O 34)

An investigation on the distribution of zinc-transporters in failing hearts of mammals

Dragan Djuric, Belgrade, Serbia

Homocysteine and methionine: risk tango for cardiovascular system

Suresh Tyagi, Louisville, USA (O 35)

Role of H_2S in cardiovascular remodeling

Rakesh Kukreja, Richmond, USA (O 19)

PDE5 inhibition in protection of diabetic heart

Judit Barta, Debrecen, Hungary (O 3)

Altered myofilament protein phosphorylation pattern contributes to increased right ventricular passive stiffness in a rat model of post-ischemic heart failure

17:30-19:00

Award Ceremony (Disco Bar)

21:00-23:00

Dinner

Day 4 (October 4, 2016) – Ship arrives in Marseille, France (~ 9:00 AM)

Arrival and disembarkation.

SONSORS



International Academy of Cardiovascular Sciences



Hungarian Society of Cardiology



Measuring Development Engineering



Mitsubishi Rayon Cleansui Co. Ltd. Japan



Pulsus Group, Canada

