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19th Annual Meeting of the European Council for Cardiovascular Research (ECCCR)



Friday 23rd – Sunday 25th October 2015

Poiano – Lake Garda, ITALY

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DRAFT PROGRAMME

WELCOME INVITATION

On behalf of the Executive Committee, we are pleased to invite you to attend the *19th Annual Meeting of the European Council for Cardiovascular Research (ECCR)*, which will be held from **Friday 23rd October – Sunday 25th October 2015 in Garda, Italy.**

The European Council for Cardiovascular Research (ECCR) was established in 1997 to create within Europe a unique forum in the field of translational research on blood pressure and cardiovascular disease. The 19th Annual Meeting in October 2015 will cover a broad range of subjects relevant to cardiovascular disease. This will include; hypertension, vascular biology, platelets and thrombosis, diabetes and the metabolic syndrome, renal biology and dysfunction, cardiac biology and disease, cardiovascular genetics, modern strategies of prevention, as well as novel pharmacologic and non pharmacologic strategies for combatting cardiovascular diseases.

The aims of the ECCR meetings are to provide a forum for clinical and non-clinical researchers to present their research, and to foster the translation of novel basic science into best clinical practice. Emphasis is on all participants making a contribution, either orally or with a poster, with plenty of time set aside for discussion.

Particular emphasis is placed on the participation of young clinicians and scientists to facilitate discussion with key opinion leaders and to promote networking and rapid dissemination of best clinical practice. This is reflected by ECCR's history of collaborations with various European educational networks.

A Young Investigator Competition Session will be held, with the presenters of the three shortlisted abstracts being awarded a complimentary registration, which includes two nights' accommodation and meals. In addition, the winner will receive a prize to be decided. There will also be prizes for the best oral presentation and the best poster presentation in each group. The best poster presenter of each group will be invited to present her/his data in a 5 minutes oral presentation.

We look forward to your active contribution to what we hope will again be an exciting meeting in support of cardiovascular research in Europe.



Gian Paolo Rossi
President



J. De Mey
President-Elect

ECCR Executive Committee

F. Jaïsser	C. Peiró
M. Baumann	C. Aalkjaer
R. Touyz	O. Pechanova
E. Van Bavel	D. Rizzoni
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10.00-13.00 **Research Workshop: Update on technology for Cardiovascular Research**

10:00 Welcome by Gian Paolo Rossi

Course in Molecular Medicine

Chairs: Ulrike Stecklings and Carmine Savoia

10.00 – 10.30 **Frederic Jaisser, France**
How to choose and make knockout mice

10.30 – 11.00 **Giorgio Valle, Italy**
How to perform exome capture

Course in Vascular Research

Chairs: Michael Mulvany and Jo de Mey

11.00 – 11.30 **Patrick Lacolley, France**
How to investigate the large arteries

11.30 – 12.00 **Damiano Rizzoni, Italy**
How to investigate the small arteries

Course in Hypertension Research

Chairs: Marisol Fernandez and Damiano Rizzoni

12.00 – 12.30 **Ben Janssen, Netherlands**
How to measure BP and CV indexes with telemetry

12.30 – 13.00 **Sverre Kjeldsen, Norway**
How to design, perform and interpret randomized clinical trials

13.00-14.00 **Buffet lunch and review of posters**

14.00 – 15.00 **Keynote Lecture**
Thomas Unger, Maastricht
The protective arm of RAS
Chairs: Jo de Mey and Martin Paul

15.00 – 16.30 **Session 1: Oxidative Stress and Cardiovascular disease: does it matter?**

Chairs: Ulrike Steckelings and Concepción Peiró

15.00 – 15.30 **Rhian Touyz, UK**
Assessing oxidative stress from bed to bedside: Challenges and opportunities.

15.30 – 15.40 1.1 **Concepción Peiró, Autonomous University of Madrid, Madrid**
The adipokine soluble dipeptidyl peptidase-4 impairs microvascular reactivity through proteinase-activated receptor-2 and thromboxane A2

15.40 – 15.45 Discussion

15.45 – 15.55 1.2 **Patrick Lacolley, Paris Cardiovascular Research Center, Vandoeuvre-lès-Nancy**
Conditional inactivation of the integrin α v subunit in vascular smooth muscle cells regulates fibrosis in vessels

15.55 – 16.00 Discussion

16.00 – 16.10 1.3 **Christian Aalkjaer, Aarhus University, Aarhus**
The role of cholinergic receptors for nerve mediated responses of rat mesenteric resistance arteries in vivo

16.10 – 16.15 Discussion

16.15 – 16.25 1.4 **Maria Philippova, Basel University Hospital, Basel**
Protective activity of human plasma against oxidized phospholipids as a novel biomarker in cardiovascular disease

16.25 – 16.30 Discussion

16.30 – 17.00 Coffee break

17.00 – 18.00

Keynote Lecture
Peter de Leeuw, The Netherlands
Baroreceptor activation therapy
Chairs: Marcus Baumann and Alun Hughes

19.30 Dinner at Poiano Resort

SATURDAY, 24th OCTOBER 2015

08.00 – 09.30

Session 2: Obesity, adipocyte-derived vasoactive factors and hypertension: does VAT contribute to blood pressure?

Chairs: Thomas Unger and Gian Paolo Rossi

08.00 – 08.30

Keynote Lecture
Michel Azizi, France
Current status of non-pharmacological approaches to treatment of resistant hypertension
Chairs: Thomas Unger and Andrea Stella

08.30 – 09.00

Tony Heagerty, UK
Pros

09.00 – 09.30

Stefano Taddei, Italy
Cons

09.30 – 10.30

Session 3: Vascular Biology

Chairs: Ludovik Paulis and Daniel Henrion

09.30 – 09.40

3.1 **Koen Reesink, Maastricht University, Maastricht**
Type 2 diabetes is associated with greater carotid stiffness and greater pressure-dependency of carotid stiffness -The Maastricht Study-

09.40 – 09.45

Discussion

09.45 – 09.55

3.2 **Ana Briones, Autonomous University of Madrid, Madrid**
G protein-coupled receptor kinase 2 mediates aldosterone production from adipocytes in hypertension through reactive oxygen species and COX-2/mPGES-1 derived prostanoids

09.55 – 10.00

Discussion

10.00 – 10.10

3.3 **Carmine Savoia, University of Rome, Rome**
Early functional and structural alterations of resistance arteries in mice treated with the inhibitor of the vascular endothelial growth factor receptor vatalanib

10.10 – 10.15

Discussion

10.15 – 10.25

3.4 **Emma Batchen, University of Edinburgh, Edinburgh**
Fetal heart function at E15.5 is influenced by maternal glucocorticoid receptor (Nr3c1) haploinsufficiency but is unaffected by early antenatal glucocorticoid treatment'

10.25 – 10.30

Discussion

10.30 – 11.00

Coffee break

11.00 – 12.15

Session 4: Immunity and Vascular Disease

Chairs: Jo de Mey and Ed Van Bavel

11.00 – 11.30

Anthony Vinh, Australia

Immune mechanisms in hypertension

11.30 – 11.40

4.1 **Natalia Alenina, MDC, Berlin**

ACE2 is required for the exercise-induced effect on adult neurogenesis

11.40 – 11.45

Discussion

11.45 – 11.55

4.2 **Mirco Menegolo, University of Padova, Padova**

Urotensin II exerts a pressor effect via stimulation of renin and aldosterone secretion

11.55 – 12.00

Discussion

12.00 – 12.10

4.3 **Martin Stenelo, University of Southern Denmark, Denmark**

The angiotensin AT2 receptor agonist compound 21 inhibits platelet aggregation through thromboxane receptor antagonism

12.10 – 12.15

Discussion

12.15 – 13.15

Lunch

13.15 – 15.30

Session 5: Hypertension and the organ damage

Chairs: Christian Aalkjaer and Koen Reesink

13.15 – 13.25

5.1 **Waed Abdel Khalek, Paris Cardiovascular Research Center, Paris**

Gordon syndrome-causing cullin 3 mutant is more neddylated and results in a less efficient e3 ubiquitin ligase complex despite increased affinity for substrates

13.25 – 13.30

Discussion

13.30 – 13.40

5.2 **J. Rafael Sádaba, Navarrabiomed Miguel Servet Foundation, Pamplona**

A role for Galectin-3 in calcific aortic valve stenosis

13.40 – 13.45

Discussion

13.45 – 13.55

5.3 **Maarten Heusinkveld, Maastricht University, Maastricht**

Towards in vivo biaxial characterisation of carotid artery mechanics

13.55 – 14.00

Discussion

14.00 – 14.30

Xavier Jeunemaitre, France

Dissecting the molecular mechanisms of hyperkaliemic hypertension

14.30 – 15.30

Keynote Lecture

Sarino Rizzuto, Italy

Mitochondrial medicine: how to study mitochondrial functions in human cardiovascular diseases

Chairs: Gian Paolo Rossi and Rhian Touyz

15.30 – 16.00

ECCR Business Meeting

16.30

Excursion or time at leisure

19.30

Reception and Gala Dinner at Poiano Resort

08.00 – 09.00

Session 6: Update on the Renin Angiotensin System-Aldosterone and the Mineralocorticoid Receptor

In conjunction with The European Co-operation in Science and Technology (COST) network on Aldosterone and the Mineralocorticoid Receptor (COST-ADMIRE)

Chairs: Frederic Jaisser and Olga Pechanova

08.00 – 08.30

Natalia Lopez-Andres, Spain

Molecular mechanisms of aldosterone-induced cardiovascular and renal damage

08.30 – 09.00

Brian Harvey, UK

The protein kinase D family - novel regulators of aldosterone actions on enac

09.00 – 10.00

Young Investigator Competition

Chairs: Xavier Jeunemaitre and Michael Mulvany

09.00 – 09.10

7.1

Adam Harvey, University of Glasgow, Glasgow

Role of aldosterone and NADPH oxidases during premature vascular aging in hypertension

09.10 – 09.15

Discussion

09.15 – 09.25

7.2

Azra Alajbegovic, Lund University, Sweden

Role of transcription factors MRTFA and GATA6 in phenotypic modulation of vascular smooth muscle cells (VSMCs)

09.25 – 09.30

Discussion

09.30 – 09.40

7.3

Hien Tran, Lund University, Sweden

Elevated glucose levels promote contractile and cytoskeletal gene expression in vascular smooth muscle via Rho/protein kinase C and actin polymerization

09.40 – 09.45

Discussion

09.45 – 09.55

7.4

Giacomo Rossitto, Padova University, Padova

Effect of acute DA2 dopaminergic receptor blockade on the performance of adrenal vein sampling for subtyping of primary aldosteronism

09.55 – 10.00

Discussion

10:00 – 12:00

Poster Review

12:00 – 12:30

Presentation of prizes

12.30

Adjourn