20th Annual Meeting of the European Council for Cardiovascular Research (ECCR)

Friday 14th – Sunday 16th October 2016

Poiano – Lake Garda, ITALY

www.eccr.org

FINAL PROGRAMME
## CONTENTS

Welcome ............................................................................................................................ 3

General Information ........................................................................................................ 4

**Oral Programme**
- Friday 14th October 2016............................................................................................. 5-6
- Saturday 15th October 2016.......................................................................................... 7-8
- Sunday 16th October 2016............................................................................................. 9

**Poster Programme**
- PB Basic Science........................................................................................................... 10-11
- PC Clinical Science......................................................................................................... 11
- PT Translational Science............................................................................................... 12

**Sponsors** ......................................................................................................................... 13

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| Web: www.eccr.org and www.hamptonmedical.com |
Dear Colleagues,

On behalf of the Executive Committee, I would like to welcome you to The 20th Annual Meeting of the European Council for Cardiovascular Research (ECCR) and to Poiano (Garda) on the beautiful Lake Garda, Italy.

This year we were fortunate enough to be able to assemble a very exciting program spanning from the emerging concept of Mitochondrial Medicine to key clinical issues as the treatment for drug resistant hypertension. Moreover, returning this year earlier on Friday morning are the “How to Sessions”, which are devoted to PhD students and post-doc, with the hope to facilitate their future research. The Faculty comprises world-class speakers and opinion leaders, including several past Presidents of the ECCR, the European Society of Hypertension and the current President of International Society Hypertension.

We would like to take the opportunity to thank all ECCR members and their Colleagues who have submitted abstracts for inclusion in the programme. We are also grateful to those members who have assisted the Executive Committee in its difficult task of reviewing the abstracts and compiling the oral and poster programme.

As with the tradition of ECCR, particular emphasis is placed on the participation of young clinicians and scientists to facilitate discussion with key opinion leaders and to promote rapid dissemination of best clinical practice.

As will be seen from the programme, there will be ample time for discussion and exchanges of opinion in a warm and friendly environment. In addition, there are discussion periods for poster groups, and all posters will be displayed for the entire duration of the conference.

The Executive Committee also wishes to thank our sponsors and supporters for their invaluable support of the Council and the Annual Scientific Meeting.

We are looking forward to seeing you in Poiano.

With my very best wishes

Prof. Gian Paolo Rossi

ECCR President
Secretariat and Registration Desk
The hostesses will be pleased to assist you with any queries. The desk will be open as follows:

Friday 23rd October: 08.00 – 19.00hrs
Saturday 24th October: 08.00 – 18.30hrs
Sunday 25th October: 08.00 – 14.00hrs

Telephone Calls for the Conference Desk
Poiano Resort, Garda, Italy
Tel: +39 (0) 45 7200994 int.8853

Poster Presentations
Posters will be displayed for the duration of the meeting.

Chaired Poster Discussion: Sunday 15th October: 10.30 – 12.00hrs

Presentation of Prizes: Sunday 16th October: 12:00 – 12:30hrs

The Executive Committee wishes to thank the following organisations for their support of the ECCR:
- Attoquant
- DMT
- Meta Medical
- Trust Medical
- Visual Sonics
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
<th>Speaker/Location</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00</td>
<td>Registration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09.00-12.30</td>
<td>Research Workshop:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09.00</td>
<td>Welcome by G.P. Rossi</td>
<td></td>
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</tr>
<tr>
<td>09.00</td>
<td>Session 1: Imaging</td>
<td>D. Carnevale, Rome</td>
<td>Phenotyping cardiovascular and immune systems with ultrasound imaging</td>
</tr>
<tr>
<td>09.00-09.30</td>
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<td></td>
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</tr>
<tr>
<td>09.30-10.00</td>
<td></td>
<td>R.T.A. Megens, Munich</td>
<td>Studying of cardiovascular disease using laser scanning microscopy</td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>Session 2: Small Animal Imaging</td>
<td>P. Pesce, Padua</td>
<td>Cardiovascular imaging in rats and mice by US</td>
</tr>
<tr>
<td>10.30-11.00</td>
<td></td>
<td>E.P. Daskalapoulos, Brussels</td>
<td>Ultrasound imaging in small animals: Practical aspects</td>
</tr>
<tr>
<td>11.00-11.30</td>
<td>Coffee Break and Exhibition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.30-12.00</td>
<td>Session 3: Changing Guidelines of Journal Submissions</td>
<td>A. Montezano on behalf of R. Touyz, Glasgow</td>
<td>The Editor-in-Chief’s views on scientific publishing</td>
</tr>
<tr>
<td>12.00-12.30</td>
<td></td>
<td>M. Barton, Zurich</td>
<td>From scientific publishing to the “open access business model”</td>
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<tr>
<td>12.30-14.00</td>
<td>Lunch and Exhibition</td>
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<tr>
<td>14.00-15.00</td>
<td>Keynote Lecture</td>
<td>G. Thiene, Padua</td>
<td>Sudden cardiac death in the young: From pathology to genes</td>
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<td></td>
<td>Chairs: M. Blankesteijn and S. Foulquier</td>
</tr>
<tr>
<td>15.00-15.30</td>
<td>Session 4: Therapeutic Aspects</td>
<td>T. Unger, Maastricht</td>
<td>New cardiovascular drugs</td>
</tr>
<tr>
<td>15.30-15.40</td>
<td>4.1</td>
<td>Teresa Maria Seccia, Padua</td>
<td>Endothelin-1 induces Epithelial-Mesenchymal Transition (EMT) in human renal tubular cells via YES-Associated Protein (YAP) pathway</td>
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<tr>
<td>15.40-15.45</td>
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<td></td>
<td>Discussion</td>
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<tr>
<td>15.45-15.55</td>
<td>4.2</td>
<td>Lucia Morbidelli, Siena</td>
<td>Anti-inflammatory properties of the H$^2$S donor drug zofenoprilat on cells of the vascular wall</td>
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<tr>
<td>15.55-16.00</td>
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<td></td>
<td>Discussion</td>
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<tr>
<td>Time</td>
<td>Activity</td>
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<tr>
<td>16.00 – 16.30</td>
<td>Coffee Break and Exhibition</td>
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</tr>
</tbody>
</table>
| 16.30 – 16.40 | 4.3 *Nataliya Bulanova, Moscow*  
Prevalence of cardiovascular disease risk factors among visitors of health centers in 2010-2015 |
| 16.40 – 16.45 | Discussion                                    |
| 16.45 – 16.55 | 4.4 *Emmanuel Guivarc’h, Angers*  
Rationale and development of cardiologic rehabilitation at different stages of cardiovascular continuum |
| 16.55 – 17.00 | Discussion                                    |
| 17.00 – 18.00 | *Keynote Lecture*  
*P. Sever, London*  
The legacy of an academically lead clinical trial  
*Chairs: U. Kintscher and A. Montezano* |

**Meet the Expert:**  
*How to Organise a Successful Career in Cardiovascular Research*  
*Chairs: T. Unger*

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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| 18.00 – 18.10 | *J. De Mey, Odense*  
How to introduce yourself and interact with senior scientists |
| 18.10 – 18.20 | *A. Montezano, Glasgow*  
How to network with colleagues |
| 18.20 – 18.25 | Discussion                                    |
| 18.25 – 18.35 | *G.P. Rossi, Padua*  
How to prepare a presentation |
| 18.35 – 18.45 | *A. Briones, Madrid*  
How to prepare a CV |
<p>| 18.45 – 18.50 | Discussion                                    |
| 20.00      | <em>Dinner at Poiano Resort</em>                     |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
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</thead>
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| 08.30 – 09.00 | **Keynote Lecture**  
G. Lembo, Rome  
The Spleen in Hypertension: Immune and adrenergic mechanisms  
Chairs: J. De Mey |                                                                 |
| 09.00 – 09.30 | **Session 5: The RAAS and Vascular Damage**  
J. Essers, Netherlands  
The RAAS and genetic factors in aneurysms |                                                                 |
| 09.30 – 10.00 | **E. Kaschina, Berlin**  
Experimental Aneurysm: Role of the RAAS |                                                                 |
| 10.00 – 10.30 | **Coffee Break and Exhibition** |                                                                 |
| 10.30 – 12.00 | **Poster Review Session** |                                                                 |
| 12.00 – 12.30 | **Keynote Lecture**  
P. Bie, Denmark  
The role of kidney in Hypertension  
Y. Nguyen |                                                                 |
| 12.30 – 12.40 | **Session 6: Vascular Changes and Dementia**  
Christian Albeck Staehr, Aarhus  
Dysfunctional neurovascular coupling in Familial hemiplegic migraine type 2 |                                                                 |
| 12.40 – 12.45 | Discussion |                                                                 |
| 12.45 – 12.55 | **Sebastien Foulquier, Maastricht**  
Microglia regulates angiogenesis via the receptor Mas during development |                                                                 |
| 12.55 – 13.00 | Discussion |                                                                 |
| 13.00 – 13.30 | **Presidential Lecture**  
G.P. Rossi, Padua  
Genetic testing for Hypertension: Times are a changin’  
Chairs: J. De Mey |                                                                 |
| 13.30 – 14.30 | **Business Meeting** |                                                                 |
| 13.30 – 15.00 | **Lunch and Exhibition** |                                                                 |
| 15.00 – 15.30 | **Session 7: Vascular and Chronobiology**  
R. Costa, Padua  
Circadian rhythms and human health |                                                                 |
| 15.30 – 15.40 | **Hélène Quelquejay, Paris**  
Vascular function of L-WNK1 (with no K lysin 1): analysis of a murine model with arterial specific inactivation |                                                                 |
<p>| 15.40 – 15.45 | Discussion |                                                                 |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.45 – 15.55</td>
<td>Ana Briones, Madrid</td>
<td>Lysyl oxidase induces vascular oxidative stress and contributes to arterial stiffness and abnormal elastin structure in hypertension: role of p38 MAPK</td>
<td>Madrid</td>
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<tr>
<td>15.55 – 16.00</td>
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<td>Discussion</td>
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<tr>
<td>16.00 – 16.10</td>
<td>Jo De Mey, Odense</td>
<td>Variability of Patient Pericardial Resistance Artery Contractility</td>
<td>Odense</td>
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<tr>
<td>16.10 – 16.15</td>
<td></td>
<td>Discussion</td>
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<tr>
<td>16.15 – 16.25</td>
<td>Natalia Alenina, Berlin</td>
<td>Strain-specific epigenetic regulation of a rat angiotensinogen transgene in mice</td>
<td>Berlin</td>
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<tr>
<td>16.25 – 16.30</td>
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<td>Discussion</td>
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<tr>
<td>16.30 – 17.00</td>
<td>Coffee Break</td>
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**Session 8: Basic Mechanisms of Cardiovascular Damage**

*Chairs: L. Paulis and M. Paul*

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<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.00 – 17.30</td>
<td>R. Kreutz, Berlin</td>
<td>Translational research on albuminuria phenotypes using zebrafishing</td>
<td>Berlin</td>
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<tr>
<td>17.30 – 18.00</td>
<td>M. Barton, Zurich</td>
<td>Sex differences in arterial hypertension: New views</td>
<td>Zurich</td>
</tr>
</tbody>
</table>

19.30
Meet at Poiano reception for transfer to dinner

20.00
Dinner


SUNDAY 16th OCTOBER 2016

09.00 – 10.00  
**Keynote Lecture**  
*H. Struijker Boudier, Maastricht*  
Microcirculation vs. Macrocirculation  
*Chairs: T. Unger and V. Ravarotto*

10.00 – 10.30  
**Coffee Break and Exhibition**

10.30 – 11.15  
**Best Poster per Category Presentations (x3)**  
*Chairs: G.P. Rossi and M. Paul*

10.30 – 10.40  
**Best Poster in Basic Science**  
Oral presentation

10.40 – 10.45  
Discussion

10.45 – 10.55  
**Best Poster in Clinical Science**  
Oral presentation

10.55 – 11.00  
Discussion

11.00 – 11.10  
**Best Poster in Translational Science**  
Oral presentation

11.10 – 11.15  
Discussion

**11.15 – 12.00**  
**Session 10: Young Investigator Competition**  
*Chair: M. Bader*

11.15 – 11.25  
10.1  
*Rustambek Karimov, Tashkent*  
Staged treatment of patients with concomitant carotid and coronary artery disease

11.25 – 11.30  
Discussion

11.30 – 11.40  
10.2  
*Emmanuel Guivarc’h, Angers*  
Estrogen Receptor alpha protection in hypertension is dependent on Activating Function 2 nuclear actions

11.40 – 11.45  
Discussion

11.45 – 11.55  
10.3  
*Zumra Kara, Ankara*  
Investigation of the Pleiotropic Vascular effects of Ivabradine in control and diabetic rats

11.55 – 12.00  
Discussion

**12.00 – 12.30**  
**Presentation of Certificates and Prizes**

**12.30**  
**End of meeting**
Poster Group PB Basic Science
Chair: L. Paulis and A. Montezano

PB.1 Aldosterone enhances CYP11B2 gene expression via GPER-1 activation in the adrenocortical cell line HAC15
Brasilina Caroccia, Teresa Maria Seccia, Maria Piazza, Alice Limena, Gian Paolo Rossi (Italy)

PB.2 Angiotensin AT2 receptor agonist, compound 21, prevents abdominal aortic aneurysm progression in the rat
Christoph Lange, Manuela Sommerfeld, Pawel Namsolleck, Ulrich Kintscher, Thomas Unger, Elena Kaschina (Germany)

PB.3 Deoxycorticosterone acetate impaired cardiac function and Ca^{2+} handling proteins levels in DOCA-salt hypertensive rats
Mesut Çiçek, İşıl Özakca, A. Tanju Özçelikay (Turkey)

PB.4 Effects of nanoparticle-loaded aliskiren on blood pressure and obesity in experimental metabolic syndrome
Olga Pechanova, Martina Cebova, Andrej Barta, Radoslava Rehakova (Slovakia)

PB.5 Non-steroidal mineralocorticoid receptor antagonism in cardiac fibrosis
Jana Grune, Elia Smeir, Niklas Beyhoff, Annelie Blumrich, Zsofia Ban, Sarah Brix, Iris Betz, Beata Hoeft, Anna Foryst-Ludwig, Robert Klopfeisch, Philip Stawowy, Peter Kolhko, Ulrich Kintscher (Germany)

PB.6 Regulator of calcineurin 1 is a novel modulator of vascular function through the regulation of COX-2-derived prostanoids
Ana B. Garcia Redondo, Vanesa Esteban Vazquez, Ana Briones, Nerea Mendez Barbero, Juan Miguel Redondo, Mercedes Salaices (Spain)

PB.7 Role of angiotensin-(1-7), mas receptor, and c21, and angiotensin ii type 2 receptor (at2r) in the regulation of aldosterone and cortisol production in human adrenocortical cell lines
Paul-Emmanuel Vanderriele, Brasilina Caroccia, Livia Lenzini, Teresa Maria Seccia, Gian Paolo Rossi (Italy)

PB.8 Role of isg15 in hypertensive vascular and cardiac damage
Maria González-Amor, Ana Belén García-Redondo, Roberto Palacios, Raquel Rodrigues-Diez, Maria Jesús Alonso, Mercedes Salaices, Susana Guerra, Ana Maria Briones (Spain)

PB.9 The effects of AT1 receptor blockade and AT2 receptor stimulation on the prevention of experimental autoimmune myocarditis (EAM) in male Lewis rats
Patrick Schmerler, Romana Rajkovicova, Sarah Jeuthe, Darach O h-Iti, Janek Salatzi, Susanne Mathia, Andrej Barta, Dilyara Lauer, Elena Kaschina, Ulrich Kintscher, Daniel Messroghli, Thomas Unger, Ludovit Paulis, Muscha U Stockelings (Slovakia)

PB.10 The effects of AT1 receptor blockade and AT2 receptor stimulation on the RAS peptide levels in the prevention and treatment of experimental autoimmune myocarditis (EAM) in male Lewis rats
Patrick Schmerler, Romana Rajkovicova, Oliver Domenig, Simona Trubacova, Elena Kaschina, Ulrich Kintscher, Thomas Unger, Muscha U Stockelings, Marko Poglitsch, Ludovit Paulis (Slovakia)

PB.11 The effects of AT1 receptor blockade and AT2 receptor stimulation on the treatment of heart failure induced by experimental autoimmune myocarditis (EAM) in male Lewis rats
Romana Rajkovicova, Patrick Schmerler, Sarah Jeuthe, Darach O h-Iti, Susanne Mathia, Dominika Kratko, Dilyara Lauer, Elena Kaschina, Ulrich Kintscher, Daniel Messroghli, Muscha U Stockelings, Ludovit Paulis, Thomas Unger (Slovakia)

PB.12 The structural changes in cardiovascular system of Wistar rats evoked by long-term inhibition of hydrogen sulphide production.
Frantisek Kristek, Magdalena Drobna, Karol Ondrias, Sona Cacanyiova (Slovakia)
PB.13 Vasoactive Responses of cardiovascular system after long-term inhibition of Neuronal and Endothelial NO-synthase in young spontaneously hypertensive rats
Andrea Berenyiova, Magdalena Drobona, Frantisek Kristek, Ima Dovinova, Miroslava Kvandova, Sona Cacanyiova (Slovakia)

PB.14 Molecular mechanisms of VEGFR inhibition-induced endothelial cell damage
Karla Neves, Francisco Rios, Augusto Montezano, Lucas Van Der Mey, Heather Small, Carmine Savoia, Rhian Touyz (United Kingdom)

PB.15 Downregulation of nuclear factor Erythroid 2–Related factor and associated antioxidant genes contributes to redox-sensitive vascular dysfunction in hypertension
Rhéure Alves-Lopes, Augusto C Montezano, Karla B Neves, Rita C A Tostes, Rhian M Touyz (United Kingdom)

PB.16 Redox signalling compartmentalization in hypertension: role of NADPH oxidases
Livía de Lucca Camargo, Augusto Montezano, Zhenbo Cao, Neil Bulleid, Rhian Touyz (United Kingdom)

PB.17 AT2-receptor stimulation promotes NO release through eNOS Serine1177 phosphorylation and eNOS Tyrosine657/Threonine495 dephosphorylation
Antonio Peluso, Jesper Bertelsen, Kenneth Andersen, Tenna Mortensen, Michael Bader, Pernille Hansen, Robson Santos, Ulrike Steckelings (Denmark)

PB.18 Expression of necroptosis regulatory proteins in abdominal aortic aneurysm
Jana Goerg, Christoph Lange, Manuela Sommerfeld, Jan Frese, Andreas Greiner, Ulrich Kintscher, Thomas Unger, Elena Kaschina (Germany)

Poster Group PC Clinical Science
Chair: D. Rizzoni and O. Pechanova

PC.1 Audit of Antiphospholid Antibodies in patients with TIA and Stroke
Khalid Ayes, Mistry Aneil, Raoof Ajmal, Mueed Satwat, Naeem Asma (United Kingdom)

PC.2 Diurnal blood pressure dipping status as a novel risk factor for cognitive and mobility impairments in community-dwelling older adults without dementia
Michael A. Gregory, Dawn P. Gill, Cheri L. McGowan, Robert J. Petrella (Canada)

PC.3 Efficacy of combined antihypertensive therapy in patients with metabolic syndrome
Aniskhon Alyavi, Jamol Uzokov (Uzbekistan)

PC.4 Magnetocardiography and ECG dispersion mapping in diagnostics of atrial lesions
Gennagy Ivanov, Nataliya Bulanova, Vjacheslav Vostricov, Nataliya Chuyko, Yuriy Maslennikov, Mikhail Primin, Svetlana Kuznetsova, Victorinya Gunaeva, Ghazi Halabi (Russia)

PC.5 Magnetocardiography in assessment of the electrophysiological impairment of the myocardium in hypertensive patients
Gennagy Ivanov, Svetlana Kuznetsova, Yuriy Maslennikov, Mikhail Primin, Ghazi Halabi, Nataliya Bulanova (Russia)

PC.6 Oxidative stress and circulating T lymphocytes in normotensive subjects and in hypertensive patients
Carolina De Ciuceis, Claudia Rossini, Paolo Airò, Mirko Scarsi, Silvia Piantoni, Stefano Coletti, Leonardo Solaini, Enzo Porteri, Maria Antonietta Caschignano, Claudia Agabiti Rosei, Angela Tincani, Enrico Agabiti Rosei, Damiano Rizzoni (Italy)

PC.7 The relationship of vitamin D and parathormone levels with hypertension: Is it different in white coat or sustained hypertension?
Ferit Akgül, Hakan Çetin (Turkey)
Poster Group PT Translational Science  
Chair: M. Barton and A. Briones

PT.1  A novel mutation in the renal NaCl cotransporter causes impaired glycosylation and Gitelman’s syndrome (GS)  
Verdiana Ravarotto (Italy)

PT.2  Analysis of Global Longitudinal Strain in an Isoproterenol-induced cardiomyopathy model  
Niklas Beyhoff, Jana Grune, Sarah Brix, Robert Klopfleisch, Anna Foryst-Ludwig, Philipp Stawowy, Fabian Knebel, Ulrich Kintscher (Germany)

PT.3  Environmental pollution and increased cardiovascular risk: Evidence from Niger Delta study  
Martinsixtus Ezejimofor, Olalekan Uthman, Omosivie Maduka, Yen-Fu Chen, Saverio Stranges, Ngianga-Bakwin Kandala Kandala (United Kingdom)

PT.4  Investigating Right Ventricular Hemodynamics following tricuspid valve replacement therapies to treat Tricuspid Regurgitation  
Yen Ngoc Nguyen, Munirah Ismail, Edgar Tay, Hwa Liang Leo (Singapore)

PT.5  Microvascular structure and T regulatory lymphocytes in small resistance arteries of normotensive subjects and hypertensive patients  
Claudia Rossini, Luigi Mori, Carolina De Ciuceis, Sarah Duse, Francesco Semeraro, Leonardo Solaini, Enzo Porteri, Maria Antonietta Coschignano, Stefano Caletti, Paola Pileri, Claudia Agabiti Rosei, Maurizio Castellano, Enrico Agabiti Rosei, Damiano Rizzoni (Italy)

PT.6  Vasoactive effects of NO-H₂S interaction in isolated rat and human arteries  
Sona Cacanyiova, Andrea Berenyiova, Frantisek Kristek, Karol Ondrias, Marian Grman, Jan Breza Sr, Jan Breza Jr (Slovakia)

PT.7  Different NO-synthase activity in the cardiovascular and nervous system: model of social-isolation rearing  
Zuzana Matuskova, Stanislava Vrankova, Martina Cebova, Radoslava Rehakova, Jana Murinova, Igor Riecansky, Olga Pechanova (Slovakia)

PT.8  Experimental models of metabolic syndrome: focused on NO and ROS balance  
Stanislava Vrankova, Jana Klimentova, Andrej Barta, Zuzana Matuskova, Ima Dovinova, Zdenka Dobesova, Jaroslav Kunes, Josef Zicha, Olga Pechanova (Slovakia)
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