

Frontiers in Cardiovascular Biology

First congress of the Council on Basic Cardiovascular Science of the European Society of Cardiology

**ADVANCE
PROGRAMME**

Berlin
16-19 July
2010



www.escardio.org

ESC Working Groups on: Cardiac Cellular Electrophysiology - Cellular Biology of the Heart - Coronary Pathophysiology and Microcirculation - Developmental Anatomy and Pathology - Myocardial Function - Pathogenesis of Atherosclerosis - Thrombosis

ESC Council on
Basic Cardiovascular Science



Meeting Objectives

Introduced by **Prof. Axel Pries**, FCVB Chairperson



Cutting-edge research, Networking & Learning

This first scientific meeting organised by the Basic Science Council of the European Society of Cardiology has been designed to provide a new platform in Europe for the exchange and discussion of cardiovascular science. It is the forum to cover the totality of the cardiovascular to field and to combine it with the newest developments in technology and scientific strategy. It will bring together leading cardiovascular scientists from Europe and abroad with researchers in the early stages of their career. The event will take place on University premises in the centre of Berlin in a very relaxed and open atmosphere.



Research

The most recent findings in cardiovascular science are covered in free oral and poster communications, in symposia and plenary presentations by leading scientists. **Fundamental biological mechanisms** in **cardiac**, **vascular** and **integrative biology** are addressed, investigating the **scientific foundations of cardiovascular disease** and **respective treatment options**. The scientific programme is designed by the Working Groups of the ESC in the respective fields, scientific Sister Societies in Europe and a prominent international Programme Committee.

Scope and Networking

The meeting addresses all students and researchers in the field of cardiovascular sciences. Furthermore, the translational components render the programme of great interest to clinicians in the field. The meeting programme is organised to maximise opportunities for interaction and exchange and to learn about the activities of the participating Working Groups of the ESC and the Sister Societies.

Learning

Keynote presentations by outstanding experts will cover topics which are central for the most relevant and productive research areas. A broad presentation of cutting edge scientific results with strong participation from younger researchers will take place in parallel state-of-the-art oral and poster sessions.



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ESC WG Developmental Anatomy & Pathophysiology

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ESC WG Thrombosis

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ESC WG Cellular Biology of the Heart

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Prof. Heinz-Peter Schultheiss (Berlin, DE)

Prof. Thomas Unger (Berlin, DE)



Scientific Programme



Key Note lecture

Top research areas presented by leading scientists

Outstanding experts will cover topics which are central for the most relevant and productive research areas. The lectures are scheduled to take about 45 minutes and are planned as plenary events to hold your undivided attention.

3 parallel scientific sessions

Chose your subject and learn from recent cardiovascular findings

Three sessions will take place in parallel. These sessions will focus on timely topics presented by leading scientists who will discuss the most recent findings in cardiovascular science. Fundamental biological mechanisms in cardiac, vascular and integrative biology are addressed, investigating the scientific foundations of cardiovascular disease and respective treatment options.

Furthermore, the translational components render the programme of great interest to clinicians in the field. With the aim of encouraging young investigators, each scientific session will include one or two selected abstracts.

Two special sessions will honour the contributions of Ursula Ravens to myocardial biology. The first will open the meeting on Friday morning and the second session will follow on the same day at 14:00.

Abstract Presentation

Oral sessions & Poster viewing

A broad presentation of cutting edge scientific results will take place in oral sessions and two days of poster sessions. Posters discussions tours are organised on Saturday and Sunday. This is your chance to meet the presenters and participate in their discussions with experts.

Call for Abstracts!

Submit your abstract via 'My ESC'
www.escardio.org
before **31 January 2010**





ESC WG Developmental Anatomy & Pathophysiology

ESC WG Coronary Pathophys & Microcirculation

ESC WG Cardiac Cellular Electrophysiology

ESC WG Cellular Biology of the Heart

ESC WG Myocardial Function

ESC WG Atherosclerosis

ESC WG Thrombosis

Venue

Charité University - Anatomy Institute
Luisenstrasse 56/57, 10117 Berlin, Germany

More than half of the German Nobel Prize winners in medicine and physiology come from the Charité, among them Emil von Behring, Robert Koch and Paul Ehrlich.

Language

The official language of the Meeting is English.

Secretariat

FCVB 2010

European Society of Cardiology - 2035 Route des Colles

BP 179 – Les Templiers - 06903 Sophia Antipolis
France

Transport

Bus: Bus line 147.

The station n° 39 called “Charité-Campus Mitte” is situated at Luisenstrasse 59, 50 meters from the Meeting entrance.



Train & Metro:

The venue is 10 minutes walk from Berlin's main central station: Hauptbahnhof.

Scientific Programme

Friday 16 July			
	ROOM 1	ROOM 2	ROOM 3
10:30 12:00	<p align="center">URSULA RAVENS: COMMITMENT TO THE HEART (Ursula Ravens session)</p> <p align="center">Chairperson(s): P. A. F. M. Doevendans (Utrecht, NL), D. Dobrev (Dresden, DE)</p> <p align="center">Introduction. S. E. Harding (London, GB)</p> <p align="center">EC-coupling, Ca-handling. D. A. Eisner (Manchester, GB)</p> <p align="center">Adrenoceptor control of the heart. S. E. Harding (London, GB)</p> <p align="center">Regenerative approaches in cardiac therapy. T. Eschenhagen (Hamburg, DE)</p>		
12:00 - 13:00 LUNCH			
13:00 13:45	<p align="center">KEYNOTE LECTURE</p> <p align="center">Chairperson(s): K. R. Sipido (Leuven, BE)* Fluorescent imaging. R. Y. Tsien (La Jolla, US)*</p>		
13:45 - 14:00 INTERMISSION			
14:00 15:30	<p align="center">ION CHANNEL MECHANISMS (Ursula Ravens session)</p> <p>Chairperson(s): U. Wettwer (Dresden, DE) K. Benndorf (Jena, DE)*</p> <p>Role and regulation of cardiac Ca-channels Ca-clocks. E. Cerbai (Florence, IT)</p> <p>Structure and regulation of cardiac K-channels. O. Pongs (Hamburg, DE)</p> <p>The If current, spatial localisation and control of the pacemaker. A. Varro (Szeged, HU)*</p> <p>Cardiac repolarisation remodelling in arrhythmogenesis. S. Nattel (Montreal, CA)</p>	<p align="center">THE DIABETIC PLATELET - MOLECULAR MECHANISMS AND CLINICAL CONSEQUENCES</p> <p>Chairperson(s): M. C. Alessi (Marseille, FR) To be announced</p> <p>Platelet function in diabetes. A. Siegbahn (Uppsala, SE)*</p> <p>Aspirin for the diabetic platelet. C. Patrono (Rome, IT)</p> <p>Variability in the response to clopidogrel and other P2Y12 antagonists in diabetes. D. J. Angiolillo (Jacksonville, US)</p> <p>Future trends. F. W. A. Verheugt (Amsterdam, NL)</p>	<p align="center">ACROSS THE BORDER: ANTI-CANCER DRUGS AND SIDE EFFECTS IN THE CARDIOVASCULAR SYSTEM</p> <p>Chairperson(s): I. J. Fleming (Frankfurt am Main, DE) T. M. Suter (Bern, CH)*</p> <p>PI3-Akt signaling as target in cancer and cardiac pathophysiology. E. Hirsch (Torino, IT)</p> <p>Neuregulin/Erb system. E. de Azambuja (Brussels, BE)</p> <p>Anti-angiogenesis therapy. J. Baselga (Barcelona, ES)*</p> <p>Abstract presentation(s).</p>
15:30 - 16:00 COFFEE BREAK			
16:00 17:00	<p align="center">FRONTIERS IN IMAGING</p> <p>Chairperson(s): T. Unger (Berlin, DE), R. Y. Tsien (La Jolla, US)*</p> <p>Subdiffractive imaging STED. S. Hell (Gottingen, DE)*</p> <p>Functional imaging of signaling compartments. M. Zaccolo (Glasgow, GB)</p> <p>Stem cells at work: imaging of cellular differentiation. T. Schroeder (Hamburg, DE)*</p> <p>Abstract presentation(s).</p>	<p align="center">FILLING THE GAP BETWEEN BASIC RESEARCH AND CLINICAL SUCCESS</p> <p>Chairperson(s): R. Ferrari (Ferrara, IT) G. A. Fitzgerald (Philadelphia, US)*</p> <p>Pitfalls of the drugs pipeline. S. Karathanasis (Molndal, SE)*</p> <p>Interfering with leukocyte adhesion: success or failure? K. Ley (La Jolla, US)</p> <p>The hypertension peril: lessons from CETP inhibitors. M. Hermann (Zurich, CH)</p> <p>Abstract presentation(s).</p>	<p align="center">TOLL-LIKE RECEPTORS: ROLE IN CARDIOVASCULAR DISEASE</p> <p>Chairperson(s): M. Weis (Munich, DE) To be announced</p> <p>The innate immune system: an overview. K. Bendtzen (Copenhagen, DK)</p> <p>Oxidised phospholipid regulation of Toll-like receptor signalling. C. Erridge (Glasgow, GB)*</p> <p>The role of toll-like receptors in human cardiovascular diseases. J. R. Ward (Sheffield, GB)*</p> <p>Abstract presentation(s).</p>
17:00 - 17:15 INTERMISSION			
17:15 18:00	<p align="center">KEYNOTE LECTURE</p> <p align="center">Chairperson(s): J. D. Pearson (London, GB)</p> <p align="center">Drugs, industry and academia. G. A. Fitzgerald (Philadelphia, US)*</p>		

Saturday 17 July

	ROOM 1	ROOM 2	ROOM 3
08:30 10:00	<p>VASCULAR DEVELOPMENT AND ANGIOGENESIS</p> <p>Chairperson(s): K. Alitalo (Helsinki, FI)* P. Carmeliet (Leuven, BE)*</p> <p>Genetics or haemodynamics in vascular development: who dominates? F. A. C. Le Noble (Berlin, DE)</p> <p>Hypoxia, VEGF, angiogenesis: is link clear? J. Bussink (Nijmegen, NL)</p> <p>To lose or to win: regression versus neovascularisation. E. Keshet (Jerusalem, IL)</p> <p>Abstract presentation(s).</p>	<p>NEW OPPORTUNITIES IN STEM CELL RESEARCH</p> <p>Chairperson(s): E. Van Belle (Lille, FR) H. Drexler (Hannover, DE)</p> <p>Chemical genetics for in vitro stem cell differentiation. A. Sachinidis (Cologne, DE)*</p> <p>Human stem cells as model for cardiac differentiation and disease. C. Mummery (Utrecht, NL)*</p> <p>Functional cardiomyocytes derived from human induced pluripotent stem cells. T. Kamp (Madison, US)</p> <p>Abstract presentation(s).</p>	<p>HYPOXIA SENSING</p> <p>Chairperson(s): G. Heusch (Essen, DE) To be announced</p> <p>Developmentally activated hypoxia-inducible factor 1{alpha} and cardiac morphogenesis and function. P. J. Ratcliffe (Oxford, GB)*</p> <p>Cardioprotection by hypoxia and hypoxia-inducible factors. K. Eckardt (Erlangen, DE)</p> <p>Prolyl hydroxylases as regulators of cell metabolism. E. Gottlieb (Glasgow, GB)*</p> <p>Abstract presentation(s).</p>
10:00 - 10:30 COFFEE BREAK			
10:30 11:15	<p>PLENARY LECTURE</p> <p>Chairperson(s): M. Komajda (Paris, FR)</p> <p>Molecular regulation of angiogenesis and lymphangiogenesis. K. Alitalo (Helsinki, FI)*</p>		
11:15 - 11:30 INTERMISSION			
11:30 12:30	GUIDED POSTER TOUR		
12:30 - 13:15 LUNCH			
13:15 13:45	POSTER VIEWING		
13:45 - 14:00 INTERMISSION			
14:00 15:30	<p>VASCULAR REMODELLING UNDER FORCE</p> <p>Chairperson(s): A. Koller (Valhalla, US) C. De Wit (Luebeck, DE)</p> <p>Mechanics and mechanisms behind vascular remodeling. S. Lehoux (Montreal, CA)</p> <p>Vascular tone and remodeling: role of vascular cell ion channels. C. Aalkjaer (Aarhus C, DK)</p> <p>Cell-matrix interactions under mechanical load: effects on endothelial gene expression and intercellular communication. U. Pohl (Munich, DE)*</p> <p>Disturbed flow-induced endothelial death and repair in vascular remodelling. Q. Xu (London, GB)</p>	<p>SEX DIFFERENCES AND ESTROGEN EFFECTS IN CARDIOVASCULAR FUNCTION</p> <p>Chairperson(s): R. Hetzer (Berlin, DE) B. Turan (Ankara, TR)</p> <p>Estrogen receptor modulation of endothelial function. J-F. Arnal (Toulouse, FR)*</p> <p>Sex differences and estrogen effects in myocardial hypertrophy. V. Regitz-Zagrosek (Berlin, DE)</p> <p>Estrogen effects in stem cell function. D. A. Taylor (Minneapolis, US)*</p> <p>Abstract presentation(s).</p>	<p>TECHNOLOGY AND CV BIOLOGY</p>
15:30 - 16:00 COFFEE BREAK			
16:00 17:30	<p>THE IMMUNE RESPONSE IN CORONARY ARTERY DISEASE</p> <p>Chairperson(s): C. Weber (Aachen, DE) To be announced</p> <p>Advances in the pathogenesis of coronary artery disease. P. Libby (Boston, US)*</p> <p>CD4+CD28null T cells in acute coronary syndrome. G. Liuzzo (Rome, IT)*</p> <p>Anti-cytokines. Z. Mallat (Paris, FR)*</p> <p>Translational implications of inflammation in coronary artery disease. J. C. Kaski (London, GB)</p>	<p>GENETIC MODELS: A TECHNICAL WORKSHOP</p> <p>Chairperson(s): R. Kelly (Marseille, FR) To be announced</p> <p>Insights into early development from the zebrafish. S. Abdellilah-Seyfried (Berlin, DE)*</p> <p>Application of transgenic and imaging technology to cardiovascular development in the mouse. S. Bhattacharya (Oxford, GB)</p> <p>Genetic approaches to studying cardiac rhythm in the fly. N. Lalevee (Marseilles, FR)</p> <p>Abstract presentation(s).</p>	<p>COMPUTATIONAL APPROACHES IN CARDIOVASCULAR BIOLOGY</p> <p>Chairperson(s): A. C. Newby (Bristol, GB) A. R. Pries (Berlin, DE)</p> <p>Multi scale modelling. A. D. McCulloch (L Jolla, US)*</p> <p>Systems biology and experimental design. To be announced</p> <p>Stimulating vascular dynamics: the mathematical knockout. T. W. Secomb (Tucson, US)</p> <p>Abstract presentation(s).</p>
17:30 - 17:45 INTERMISSION			
17:45 19:00	INDUSTRY WORKSHOPS		

Sunday 18 July

	ROOM 1	ROOM 2	ROOM 3
08:30 10:00	<p style="text-align: center;">DISSECTING THE VULNERABLE PLAQUE</p> <p>Chairperson(s): J. Waltenberger (Maastricht, NL) To be announced</p> <p>In-vivo-imaging of molecular and cellular processes within the atherosclerotic plaque. R Weissleder (Boston, US)*</p> <p>Apoptosis within the atherosclerotic plaque. M. R. Bennett (Cambridge, GB)*</p> <p>Cellular inflammation within the atherosclerotic plaque: relation to plaque angiogenesis. To be announced</p> <p>Abstract presentation(s).</p>	<p style="text-align: center;">MITOCHONDRIA AND CARDIOPROTECTION</p> <p>Chairperson(s): R. Schulz (Essen, DE) D. Garcia-Dorado Garcia (Barcelona, ES)</p> <p>Mitochondrial connexin 43 and ischaemic preconditioning. M. Ruiz-Meana (Barcelona, ES)</p> <p>Mitochondrial stat3 and ischaemic postconditioning. K. Boengler (Essen, DE)</p> <p>Risk and cardioprotection. D. J. Hausenloy (London, GB)</p> <p>MPTP and cardioprotection. M. Ovize (Lyon, FR)</p>	<p>ORAL ABSTRACT SESSION</p> <p>Abstract submission deadline: 31 January 2010</p>
10:00 - 10:30 COFFEE BREAK			
10:30 11:15	<p>PLENARY LECTURE</p> <p>Chairperson(s): A. C. Newby (Bristol, GB) Micro RNA, Systems Biology. N. Rajewsky (Berlin, DE)*</p>		
11:15 - 11:30 INTERMISSION			
11:30 12:30	GUIDED POSTER TOUR		
12:30 - 13:15 LUNCH			
13:15 13:45	POSTER VIEWING		
13:45 - 14:00 INTERMISSION			
14:00 15:30	<p style="text-align: center;">REVERSE REMODELLING IN CARDIOVASCULAR PATHOLOGY</p> <p>Chairperson(s): L. Badimon (Barcelona, ES) D. Hilfiker-Kleiner (Hannover, DE)</p> <p>Remodelling and reverse remodelling driven by the RAS pathway. M. Daemen (Maastricht, NL)*</p> <p>Reverse remodelling of the left ventricle after surgical treatment of aortic stenosis. A. Leite-Moreira (Porto, PT)</p> <p>Proteasome inhibition and reverse remodelling. L. Carrier (Hamburg, DE)</p> <p>Abstract presentation(s).</p>	<p style="text-align: center;">DEFECTS IN SIGNALLING AS A MECHANISM OF CARDIOVASCULAR DISEASES</p> <p>Chairperson(s): A. Hughes (London, GB) To be announced</p> <p>VEGF signalling in diabetic retinopathy. To be announced</p> <p>TGF-beta signalling in pulmonary hypertension. N. Morrell (Cambridge, GB)</p> <p>Redox signalling abnormalities in systemic hypertension. R. Touyz (Ottawa, CA)*</p> <p>Macrophage chemokine signalling in atherosclerosis. To be announced</p>	<p>ORAL ABSTRACT SESSION</p> <p>Abstract submission deadline: 31 January 2010</p>
15:30 - 16:00 COFFEE BREAK			
16:00 17:30	<p style="text-align: center;">DEVELOPMENTAL BIOLOGY OF THE HEART: GENETIC AND SIGNALING CONTROL MECHANISMS</p> <p>Chairperson(s): D. Franco Jaime (Jaen, ES) M. D Schneider (London, GB)</p> <p>Transcriptional control of conduction system development. V. M. Christoffels (Amsterdam, NL)</p> <p>Signaling pathways controlling heart morphogenesis. To be announced</p> <p>The role of the DiGeorge candidate gene Tbx1 in conotruncal development. A. Baldini (Naples, IT)</p> <p>Construction of the heart from multiple progenitor cell lineages. M. E. Buckingham (Paris, FR)*</p>	<p style="text-align: center;">THE CA²⁺ UNIVERSE</p> <p>Chairperson(s): B. Casadei (Oxford, GB) J. L. Balligand (Brussels, BE)</p> <p>Dynamics of calcium signals in the cardiomyocyte. L. A. Blatter (Maywood, US)*</p> <p>Calcium release events, mutant RyR and arrhythmias. A. Gomez (Montpellier, FR)</p> <p>Local and global Ca²⁺ sensing by a calmodulin/Ca²⁺ channel complex. D. T. Yue (Baltimore, US)*</p> <p>Abstract presentation(s).</p>	<p style="text-align: center;">LIPIDS, LIVER, VESSELS, HEART: UNRAVELLING THE INTERACTIVE NETWORK</p> <p>Chairperson(s): J. Boren (Goteborg, SE) To be announced</p> <p>Why is a fatty liver dangerous for the heart. M-R. Taskinen (Helsinki, FI)</p> <p>Fatty acids in the myocardium. H. Wiggers (Aarhus N, DK)*</p> <p>Perivascular fat and PPARs. B. Staels (Lille, FR)*</p> <p>Abstract presentation(s).</p>

Monday 19 July

	ROOM 1	ROOM 2	ROOM 3
08:30 10:00	GENETICS OF CONGENITAL HEART DISEASE: FROM ANIMAL MODELS TO HUMAN PATHOLOGY Chairperson(s): G. Thiene (Padova, IT) D. Hilfiker-Kleiner (Hannover, DE) Genetics and congenital heart malformations. C. E. Seidman (Boston, US)* Development of the conduction system: morphological basis. A. F. M. Moorman (Amsterdam, NL)* Brugada syndrome. C. R. Bezzina (Amsterdam, NL) Video demonstration of cardiovascular structural defects in arrhythmogenic syndromes. C. Basso (Padua, IT)	PLATELET ADP RECEPTORS Chairperson(s): R. De Caterina (Chieti, IT) To be announced The P2Y12 receptor. M. Cattaneo (Milan, IT) 2 interfering drugs. R. F. Storey (Sheffield, GB) P2YX and the P2Y1 receptors. C. Gachet (Strasbourg, FR) Presentation 4. To be announced Presentation 5. To be announced	DATA MINING: HOW TO MAXIMIZE THE OUTPUT Chairperson(s): S. Yla-Herttuala (Kuopio, FI) To be announced GDF15: a paradigm for successful search of new biomarkers. K. C. Wollert (Hannover, DE) Digging from clinical trials: treasures at hand. F. Zannad (Dommartin-Les-Toul, FR)* Micro arrays: special look on bioinformatic handling of data. A. J. G. Horrevoets (Amsterdam, NL) How to analyze metabolomics data. M. Mayr (London, GB)
10:00 - 10:30 COFFEE BREAK			
10:30 11:15	KEYNOTE LECTURE Chairperson(s): R. De Caterina (Chieti, IT) Lessons and promises for cardiovascular medicine: understanding of the mevalonate pathway. To be announced		
11:15 - 11:30 INTERMISSION			
11:30 12:00	AWARD CEREMONY		

Registration

Register online via "MY ESC" (www.escardio.org)

The below registration fee entitles you to:

- Entry to all scientific sessions & poster area
- Entry to the exhibition Area
- Final programme and Congress bag
- Welcome Reception in the garden of the venue on Friday 16 July

Deadline for Early Registration fee: 28 April 2010

Deadline for Pre-registration: 16 June 2010

REGISTRATION TYPE (including 19 % VAT)	EARLY FEE Until 28 April 2010	LATE FEE Until 16 June 2010	ON SITE FEE
Scientist	€ 350	€ 400	€ 450
Student*	€ 150	€ 180	€ 220
Day Ticket	N/A	N/A	€ 150
Accompanying person**		€ 70	

* Student status to be confirmed with copy of Student Card & a letter from the Head of Department

** Only entitles access to the Welcome Reception and Exhibition

Payment can be made in Euro by credit card, bank transfer or cheque.

Cash payments in Euro will be accepted on site

Hotel Accommodation

The ESC has reserved a number of rooms at special rates in the vicinity of the congress venue. All our hotels are in walking distance. You can book your hotel online via "My ESC" (www.escardio.org) from November onwards or contact FCVBhotels@escardio.org for more information.

Book your hotel online via "MY ESC" (www.escardio.org)

The below list of hotels will be updated on the www.escardio.org

All prices include breakfast and VAT

Bookings are handled on a "first come first served basis"

HOTEL	SINGLE RATE €	DOUBLE RATE €
Albrechtshof Hotel 3*	100,00	120,00
Mercure Charite, 3* sup.	79,00	89,00
Gates Hotel, 4*	75,00	95,00

IMPORTANT DATES

November 2009

Opening of the Online Registration,
Accommodation and Abstract Submission

31 January 2010

Abstract Submission Deadline

End March 2010

Abstract Selection Results

28 April 2010

Early fee registration deadline

16 June 2010

Pre-registration deadline

ESC Council on
Basic Cardiovascular Science



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