

'The heart and beyond: intercellular and interorgan communication'



Annual Meeting 2013



of the
**Working Group on
Myocardial Function**

and the
**Working Group on
Cellular Biology of the Heart**



Villa Monastero, ITALY
Thursday to Sunday - May 2-5th 2013

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Scientific Program

Villa Monastero, ITALY

May 2-5th 2013

*'The heart and beyond:
intercellular and interorgan communication'*

Thursday, May 2nd

11.00 – 16.00 ESC WG Nucleus Meetings

16.25 – 16.30 Welcome and opening remarks
Denise Hilfiker-Kleiner (Germany)

Session I: Message in a bottle – Microvesicles and intercellular communication Chairs: Peter Ferdinandy (Hungary) and Gianluigi Condorelli (Italy)

16.30 – 17.00 Microvesicles and exosomes in cardiovascular health and disease
Joost Sluijter (Netherlands)

17.00 – 17.30 MicroRNA and communication beyond the heart
Thomas Thum (Germany)

17.30 – 18.00 Exosomes: More than just biomarkers of cardiovascular disease
Sean Davidson (UK)

18.00 – 18.30 2 Oral abstract presentations
MicroRNA-212 is an anti-angiogenic miRNA
Kumarswamy Regalla (Germany)
16K prolactin-induced expression of miR-146a is a therapeutic
target and a specific biomarker for peripartum cardiomyopathy
Melanie Ricke-Hoch (Germany)

19.30 Dinner (Villa Cipressi)

Friday, May 3rd

Session II: Regenerative therapy for the heart

Chairs: Felix Engel (Germany) and Stephane Heymans (Belgium)

- 09.00 – 09.30 Cardiomyocyte communication with its neighbours
Thomas Braun (Germany)
- 09.30 – 10.00 In vivo selection of siRNAs to keep cardiomyocyte regenerative
potential in adulthood
Mauro Giacca (Italy)
- 10.00 – 10.30 Circadian rhythms in cardiac regeneration
Linda W. van Laake (Netherlands)
- 10.30 – 11.00 2 Oral abstract presentations
- Impact of the transcription factor GATA2 in endothelial cells on
pathological cardiac hypertrophy
Jörg Heinecke (Germany)
- Direct interaction between sympathetic neurons and
cardiomyocytes forms a high-agonist concentration and diffusion-
restricted signaling domain at ‘cardiac synapses’
Marco Mongillo (Italy)
- 11.00 – 11.30 Coffee break (Villa Monastero)

Session III: Interorgan communication via the metabolic highway

Chairs: Rosalinda Madonna (Italy) and Jean-Luc Balligand (Belgium)

- 11.30 – 12.00 PGC1- α and the angiogenic balance as a switch in physiological
vs pathophysiological adaptation of the heart
Zoltan Arany (USA)
- 12.00 – 12.30 Systemic effects of cancer on regulation and function of the
cardiac sarcomere
Denise Hilfiker-Kleiner (Germany)

- 12.30 – 13.00 2 Oral abstract presentations
- Nitric Oxide Synthase & AMP-Activated Protein Kinase
Dependent Signaling Pathways are Involved in the Anti-
Hypertrophic Effect of The Human Beta 3 Adrenoreceptor
Emilie Dubois-Deruy (Belgium)
- The hypoxia-inducible microRNA cluster miR-199a-214 cluster
targets myocardial PPAR β/δ and impairs mitochondrial fatty acid
oxidation
Hamid Azzouzi (Netherlands)

- 13:00 – 14:00 Lunch (Villa Cipressi)

Session IV: Moderated Poster session (I)
guided by Leon De Windt (Netherlands) and Manuel Mayr (GB)

- 14.00 – 16.00 Poster session
- 16.00 – 16.30 Coffee break (Villa Monastero)

Session V: New insights into myocardial fibrosis
Chairs: Johann Bauersachs (Germany), Carlo Gabriele Tocchetti (Italy)

- 16.30 – 17.00 Endothelial cells undergo EMT to generate myofibroblasts upon
stress
Elizabeth Zeisberg (Germany)
- 17.00 – 17.30 Lineage tracing reveals ADAM12+ pericytes as precursors of
myofibroblasts
Lucie Peduto (France)
- 17.30 – 17.45 Oral abstract presentation
Deletion of Fn14 receptor protects from right heart fibrosis and
dysfunction
Tatyana Novoyatleva (Germany)
- 17.45 – 18.00 Presentation by VisualSonics B.V.
- 19.30 Dinner (Villa Cipressi)

Saturday 4th May

Session VI: Mitochondria transfer in and out of the heart Chairs: Sean Davidson (UK) and Angela Clerk (UK)

- 08.30 – 09.00 How to measure mitochondrial function
Marisol Ruiz-Meana (Spain)
- 09.00 – 09.30 Stem cell reprogramming of adult cardiomyocytes: cell fusion and
mitochondria transfer
Anne-Marie Rodriguez (France)
- 09.30 – 10.00 Mitochondrial DNA that escapes from autophagy causes
inflammation and heart failure
Kinya Otsu (London)
- 10.00 – 10.30 2 Oral abstract presentations
- Oxidative/nitrosative stress in hypercholesterolemic hearts: the
role of microRNA-25 regulated NADPH oxidase 4
Zolta Varga (Hungary)
- Immune modulation by regulatory T cells preserves cardiac
function and promotes cardiomyocyte proliferation after myocardial
infarction
Serena Zacchigna (Italy)
- 10.30 – 11.00 Coffee break (Villa Monastero)

Session VII: Moderated Poster session (II) guided by Sean Davidson (UK) and Felix Engel (Germany)

- 11.00 – 13.00 Poster session
- 13.00 – 14.00 Lunch (Villa Cipressi)

Free afternoon

Sunday 5th May

Session VIII: Protecting the heart at a distance

Chairs: Rainer Schulz (Germany) and Derek Hausenloy (UK)

- 09.00 – 09.30 Mechanisms underlying remote ischemic conditioning
Andrew Redington (Canada)
- 09.30 – 10.00 Optogenetic control of heart muscle in vitro and in vivo
Philipp Sasse (Germany)
- 10.00 – 10.30 Extracellular RNA and myocardial protection
Klaus Preissner (Germany)
- 10.30 – 10.45 Oral abstract presentation

Paracrine factors from cardiac fibroblasts protect cardiomyocytes
against ischemia-reperfusion injury
Maryline Abrial (France)
- 10.45 – 11.00 Coffee break (Villa Monastero)

Session IX: Signaling cross-talk in myocardial remodeling

Chairs: Guido Tarone (Italy) and Ralph Knoell (London)

- 11.00 – 11.30 Multiple roles of AKAP-Lbc in cardiac remodeling
Dario Diviani (Switzerland)
- 11.30 – 12.00 PI3K/PKA signaling
Emilio Hirsch (Italy)
- 12.00 – 12.15 Oral abstract presentation

Molecular Modulation of Post-Ischemic Cardiac Remodeling by
Hindlimb Ischemia
Gabriele Giacomo Schiattarella (Italy)

Session X: Translational session

Chair: Denise Hilfiker-Kleiner (Germany)

- 12.15 – 13.00 Allosteric Effectors of Cardiac Myosin Function: Activators,
Inhibitors, and Pharmacoperones
Dietmar Manstein (Germany)
- 13.00 Closing remarks and farewell
Derek Hausenloy (UK)

Varenna Tourist Info

www.varennaitaly.com info@varennaitaly.com Phone +39 0341 814009



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Addresses:

Villa Monastero
Viale Giovanni Palvani
23829 Varenna - LC - Italy

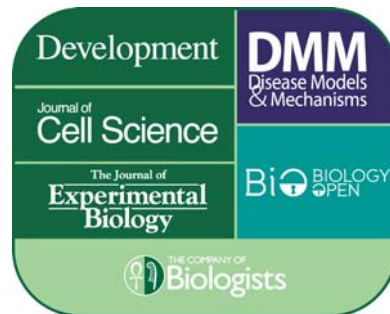
Villa Cipressi
Via IV Novembre 18
23829 Varenna - LC, Italy
Tel. +39 0341 830113
Fax +39 0341 830401
info@hotelvillacipressi.it
www.hotelvillacipressi.it

Hotel Royal Victoria
Piazza S. Giorgio, 2
23829 Varenna - LC - Italy
Tel. +39 0341 815111
Fax +39 0341 830722
info@royalvictoria.com-
www.royalvictoria.com

Hotel Eremo Gaudio
Via Roma, 25
23829 Varenna - LC - Italy
Tel. +39 0341 815301
Fax +39 0341 815314
eremogaudio@yahoo.it
www.eremogaudio.it

**The organisation of this meeting is supported by
unrestricted grants offered by**

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VisualSonics B.V. and Wolters Kluwer.





**Villa Monastero, ITALY
May 2-5th 2013**

Organizers of the Annual meeting

of the

Working Group on Myocardial Function

Professor Johann Bauersachs

Professor Denise Hilfiker-Kleiner

and the

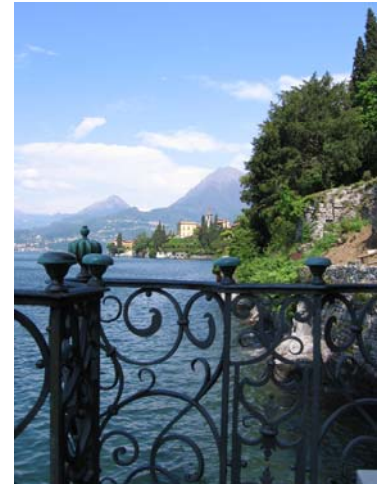
Working Group on Cellular Biology of the Heart

Dr. Derek Housenloy

Meeting Organization and Contact:

Prof. Denise Hilfiker Kleiner
Meike Jungesblut M.A.

Hannover Medical School
Department of Cardiology and Angiology
Carl-Neuberg-Str. 1, 30625 Hannover, Germany
Tel. +49 (0)511 532-9396
jungesblut.meike@mh-hannover.de



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