

7th Ascona International Workshop on Cardiomyocyte Biology

CARDIAC PATHWAYS OF DIFFERENTIATION, METABOLISM AND CONTRACTION

Centro Stefano Franscini, Monte Verità, Ascona, Switzerland, April 22-26, 2012

Opening lecture

Michael R. Rosen, New York

"Stretch-activated trafficking and transcription and cardiac repolarization"

Development of the heart

Antoon F. Moorman, Amsterdam

"Cardiac growth"

Robert G. Kelly, Marseille

"Properties of second heart field cardiac progenitor cells in the early mouse embryo"

Richard P. Harvey, Darlinghurst, New South Wales

"Systems biology of heart development"

Mechanotransduction and sarcomere signaling

Pieter P. de Tombe, Chicago

"Myofilament length dependent activation"

Wolfgang A. Linke, Bochum

"Novel properties of the cardiac titin spring"

R. John Solaro, Chicago

"Signaling to and from cardiac sarcomeres"

Mathias Gautel, London

"The sarcomeric M-band as a hub of mechanosignalling and protein turnover control"

Metabolic plasticity of the heart

Marco Sandri, Padova

"The ubiquitin ligase atrogin1 controls autophagy in cardiomyocytes"

Daniel P. Kelly, Orlando

"Transcriptional circuitry controlling cardiomyocyte mitochondrial function"

Christophe Montessuit, Geneva

"Free and lipoprotein-derived fatty acids: how they impair myocardial glucose transport"

Gary D. Lopaschuk, Alberta

"Targeting mitochondrial oxidative metabolism as an approach to treat heart failure"

Cardiac ion channels on the move

Ernst Niggli, Bern

"Post-translational modifications of cardiac RyRs: Ca²⁺ signaling and EC-coupling"

Jeffrey R. Martens, Ann Arbor

"Potassium channel trafficking as a target for antiarrhythmic therapy"

Stéphane Hatem, Paris

"Anchoring of ion channels in the sarcolemma of cardiac myocytes: from physiology to diseases"

Robin M. Shaw, San Francisco

"Ion channel trafficking and disease related gridlock"

From complex signal regulation towards novel therapy

Laura Pentassuglia, Nashville

"Neuregulin: from cardioprotective mechanism to clinical application"

Julia Gorelik, London

"New scanning microscopic technique for cardiovascular biology"

Dario Diviani, Lausanne

"Multiple roles of PKA anchoring proteins in cardiac cells"

Joseph M. Metzger, Minneapolis

"EF-hand motif designer Ca²⁺ buffer for the heart"

Cardiac repair and regeneration

Michel Pucéat, Evry

"Pathways controlling cardiogenic differentiation in embryonic stem cells"

Gabriela Kania, Zurich

"Novel therapeutic options in autoimmune cardiomyopathy"

Nikolaos G. Frangogiannis, New York

"Negative regulation of the post-infarction inflammatory response in cardiac repair"

Loren J. Field, Indianapolis

"Can resident cardiac progenitors repopulate the heart?"