

Contents

BAUERSACHS, Johann, FRANTZ, Stefan, and ERTL, Georg: Introduction	9
BLUM, Hubert E.: Welcome Address	11

Role of Immunity in Heart Failure

FRANTZ, Stefan, ERTL Georg, and BAUERSACHS, Johann: Innate Immunity in Heart Failure [Extended Abstract]	17
BERGMANN, Martin W., and DIETZ, Rainer: Insights into Molecular Mechanisms of Cardiac Remodeling Gained by Heart-specific Inhibition of Transcription Factor NF- κ B [Extended Abstract]	21
LATINI, Roberto: Cytokines and Heart Failure [Extended Abstract]	27
BAUERSACHS, Johann, FRACCAROLLO, Daniela, THUM, Thomas, FRANTZ, Stefan, and ERTL, Georg: Heart Failure is a Neurohumoral Disease [Extended Abstract]	33
PASPARAKIS, Manolis: Inflammation in Non-inflammatory Diseases [Abstract]	39
PIESKE, Burkert: Heart Failure is a Calcium Disease [Abstract]	41
PAUSCHINGER, Matthias: Heart Failure is a Viral Disease [Abstract]	43

Superoxide and Healing in the Cardiovascular System

DWORAKOWSKI, Rafal, MURDOCH, Colin, and SHAH, Ajay M.: NADPH Oxidases as Pivotal Sources of ROS in Cardiac Disease [Extended Abstract]	47
FLEMING, Ingrid: Cytochrome P450 2C is a Functionally Significant Source of Reactive Oxygen Species [Extended Abstract]	55

LANDMESSER, Ulf, and DREXLER, Helmut: Xanthine Oxidase as Pivotal Source of Reactive Oxygen Species [Abstract]	63
--	----

General Aspects of Healing and Inflammation

SCHRADER, Jürgen, ZERNECKE, Alma, BUCHHEISER, Anja, ÖZÜYAMAN, Burcin, and WEBER, Christian: Role of CD73-derived Adenosine in Acute and Chronic Inflammation [Abstract]	67
---	----

REGITZ-ZAGROSEK, Vera: Gender Aspects in Cardiovascular Healing and Heart Failure [Abstract]	69
--	----

KELLY, Ralph A.: Innate Immunity, Hypoxia Inducible Factor-1 α and Wound Healing: Implications for Therapeutic Angiogenesis [Abstract]	71
---	----

SCHNEIDER, Martin, ARAGONÉS, Julian, LAFUSTE, Peggy, VAN GEYTE, Katie, BISHOP, Tammie, DIEZ, Antonio, GROSFELD, Alex, RUIZ DE ALMODOVAR, Carmen, WILLIAM, Carsten, TJWA, Marc, COLLEN, Desire, MOONS, Lieve, DEWERCHIN, Mieke, PUGH, Chris W., RATCLIFFE, Peter, MAXWELL, Patrick, and CARMELIET, Peter: Molecular Hypoxia Signaling in Ischemia [Abstract]	73
---	----

NO and NOS in Heart Disease

CATALUCCI, Daniele, CECI, Marcello, and CONDORELLI, Gianluigi: Regulation of Myocardial Contractility by Akt in Normal and Failing Heart [Abstract]	77
---	----

NEYSES, Ludwig: Neuronal NO Synthase (nNOS) and its Regulators in the Heart [Abstract]	79
--	----

BALLIGAND, Jean-Luc: Cardiac Endothelial-type Nitric Oxide Synthase (eNOS) in Myocardial Biology [Abstract]	81
---	----

Healing, Inflammation, and Vascular Diseases

WEBER, Christian: Cell-Cell Interactions in the Vascular Wall [Extended Abstract]	85
---	----

DE CATERINA, Raffaele, and MADONNA, Rosalinda: Vascular Inflammation in Diabetes mellitus [Extended Abstract]	91
HESS, Otto M., BILLINGER, Michael, TOGNI, Mario, and WINDECKER, Stephan: Drug-eluting Stents – Promises and Pitfalls [Abstract]	95
CHARO, Israel: Chemokines in Atherosclerosis [Abstract]	99

Healing, Inflammation, and Stem Cell Therapy in Different Organs

WIESE, Stefan, HOLTMANN, Bettina, GÖTZ, Rudolf, and SENDTNER, Michael: Neurotrophic Factor Signaling in Neural Stem Cell Differentiation and Survival: The Role of Bag1 as a Scaffold for B-RAF/Akt Function on the Surface of Mitochondria [Extended Abstract]	103
EINSELE, Hermann: Stem Cells and Hematologic Disorders [Extended Abstract]	109
MÜLLER, Albrecht M., and VALLABHAPURAPU, Duttu: Hematopoietic Progenitor/Stem Cell Activities are Increased by Transient HDAC-Inhibitor Treatment [Abstract]	111
ANVERSA, Piero: Stem Cells and Cardiac Diseases [Abstract]	113

Pro and Contra: Stem Cell Therapy in the Heart

HO, Anthony D.: Adult Stem Cell Therapy in the Heart – All Hype and no Hope? – [Extended Abstract]	117
ZEIHER, Andreas M.: Regeneration Therapy for Acute Myocardial Infarction [Abstract]	121