

Keystone Symposia: Cardiovascular Development and Repair

(Joint with "Angiogenesis in Health and Disease")

Sponsored by Gilead Sciences, Inc.

February 28–March 5, 2010 • Keystone Resort • Keystone, Colorado • USA

Scientific Organizers: Doris A. Taylor and Brian H. Annex

PROGRAM FACULTY & TALKS

- Brian H. Annex**, University of Virginia, USA
Systems Biology Consideration in Angiogenesis and Cell Therapy: Bench to Bedside
- Kenneth R. Chien**, Massachusetts General Hospital, USA
Talk Title to be Determined
- Nikolaos G. Frangogiannis**, Baylor College of Medicine, USA
The Role of the Inflammatory Response in Cardiac Repair
- Michael J. Galko**, University of Texas MD Anderson Cancer Center, USA
The Drosophila Open Circulatory System as a Source of Cells and Signals for Tissue Repair
- Richard P. Harvey**, University of New South Wales, Victor Chang Cardiac Research Institute, Australia
The Pericyte Continuum in Heart Development and Repair
- Joseph A. Hill**, University of Texas Southwestern Medical Center, USA
Autophagy in Cardiac Plasticity and Disease
- Kyoko Imanaka-Yoshida**, Mie University, Graduate School of Medicine, Japan
Tenascin C as a Target for Regulation of Cardiac Remodeling
- Gordon M. Keller**, University Health Network, MaRS Centre, Canada
Cardiovascular Development from Human Pluripotent Stem Cells
- Jeffrey N. Keller**, Pennington Biomedical Research Center, USA
Aging and Diet Effects on Proteasome and Oxidative Stress in the Heart
- Walter J. Koch**, Jefferson Medical College, USA
Using Gene Therapy to Repair the Failing Heart
- Leslie A. Leinwand**, University of Colorado, USA
Sex Differences in Cardiac Hypertrophy: Are they Relevant for Repair?
- Calum A. MacRae**^o, Massachusetts General Hospital, USA
Genetic Basis of Atrial Fibrillation
- Arya Mani**^o, Yale University, USA
The Genetic Link between Coronary Artery Disease and Metabolic Risk Factors
- Eduardo Marbán**, Cedars-Sinai Medical Center, USA
Cardiac Cell Therapy: from Concept to Clinical Reality
- Elizabeth M. McNally**^o, University of Chicago, USA
Dissecting Modifier Genes for Heart and Muscle Disease
- Jeffery D. Molkenin**, Cincinnati Children's Hospital Medical Center, USA
TRPC Channels Underlie Muscle Degeneration and Hypertrophy in Response to Alterations in the ECM – Sarcolemma
- Eric N. Olson**^o, University of Texas Southwestern Medical Center, USA
MicroRNA Control of Cardiovascular Development and Disease
- Kenneth Poss**, Duke University Medical Center, USA
Heart Regeneration in Zebrafish
- Paul R. Riley**, University College London, UK
Epicardium-Induced Coronary Development and Repair
- Matt Robertson**, University of Minnesota, USA
LV-Derived Stem Cells: Is it a Feasible Goal from Humans?
- Nadia A. Rosenthal**, European Molecular Biology Laboratory, Italy
Epicardium: The Outer Limits of Stem Cells
- Jonathan G. Seidman**^o, Harvard Medical School, USA
Talk Title to be Determined
- R. John Solaro**, University of Illinois at Chicago, USA
Quantitative Comparison of Sarcomeric Phosphoproteomes of Neonatal and Adult Rat Hearts
- Francis G. Spinale**⁺, Medical University of South Carolina, USA
Matrix Remodeling and Hypertrophy
- Doris A. Taylor**^{*}, University of Minnesota, USA
An Update on Engineering Whole Heart

^{*}Keynote speaker. ^{*}Session chair. ^oJoint speaker. ⁺Invited, not yet confirmed.

Program subject to change. Current as of December 28, 2009.



During fetal development, cardiocytes and vascular progenitors proliferate, coalesce and organize to form a nascent organ. Yet during adult mammalian life, these same cells are incapable of responding to repair an injured heart. This Keystone Symposia meeting is designed to: 1) expose scientists in the field of cardiac and vascular repair to models of successful cardiac repair in lower vertebrates; 2) discuss repair in the context of cardiac development; and 3) begin to ask what cues and targets from each may be applicable in the adult mammal. As a companion to and overlapping with the Angiogenesis in Health and Disease meeting, it will provide meeting-goers access to both preclinical and clinical components of cardiac and vascular repair using cells, genes and small molecules.

PROGRAM PLENARY SESSIONS & WORKSHOPS:

- Cardiac Development as a Model for Repair
- Models of Successful Cardiac Repair
- Aging Cardiocytes and Matrix–Molecular Targets for Repair
- Workshop 1: Cardiac Stem Cell Isolation/Expansion
- Cardiac Stem Cell Sources and Niches
- Debate: Is Isl-1 the "Right" Cardiac Stem Cell Marker?
- Cardiovascular Genetics (Joint)
- Lessons from Cardiac Hypertrophy and Autophagy
- Mechanisms in Cardiac Repair
- Workshop 2: Lessons Learned from Clinical Translation in Myogenesis and Angiogenesis Fields (Joint)
- The Future of Cardiac Repair

DEADLINES:

Early Registration: December 28, 2009

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