



National Heart, Lung, and Blood Institute

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Symposium on
Cardiovascular
Regenerative
Medicine

October 1-2, 2007

Natcher Conference Center
National Institutes of Health
Bethesda, Maryland

Welcome

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National Heart, Lung, and Blood Institute
Symposium on Cardiovascular Regenerative Medicine
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Agenda

Monday, October 1

- | | |
|-------------------|---|
| 8:00 – 8:10 a.m. | Welcome and Opening Remarks
Manfred Boehm, M.D., Cardiology Branch, Division of Intramural Research, NHLBI |
| 8:10 – 8:30 a.m. | The NHLBI Investment in Stem Cell Research
Elizabeth G. Nabel, M.D., Director, NHLBI |
| 8:30 – 10:05 a.m. | Session I: Lessons From Hematopoiesis
Chairs:
David T. Scadden, M.D., Harvard Medical School and Massachusetts General Hospital
Cynthia Dunbar, M.D., Hematology Branch, Division of Intramural Research, NHLBI |
| 8:30 – 8:35 a.m. | Introduction to topic and speakers – session chairs |
| 8:35 – 9:00 a.m. | Got Niche?
David T. Scadden, M.D., Harvard Medical School and Massachusetts General Hospital |
| 9:00 – 9:25 a.m. | Contributions of the Blood System to Lineage Programming and Reprogramming
Stuart H. Orkin, M.D., Harvard Medical School |

9:25 – 9:50 a.m.	Possible Mechanisms Underlying the Greater Potency of Adult Stem Cells? Catherine Verfaillie, M.D., Katholieke Universiteit Leuven
9:50 – 10:05 a.m.	Roundtable discussion
10:05 – 10:20 a.m.	Break
10:20 a.m. – 12:20 p.m.	Session II: Fate and Specification in Embryonic Stem Cells Chairs: Kenneth R. Chien, M.D., Ph.D., Harvard Medical School Natalie DeWitt, Ph.D., <i>Nature</i>
10:20 – 10:25 a.m.	Introduction to topic and speakers – session chairs
10:25 – 10:50 a.m.	Derivation of Hematopoietic Cells From Human Embryonic Stem Cells Mickie Bhatia, Ph.D., McMaster University
10:50 – 11:15 a.m.	Generation of Germline-Competent Induced Pluripotent Cells Shinya Yamanaka, M.D., Ph.D., Kyoto University and University of California, San Francisco
11:15 a.m. – 11:40 p.m.	Multipotent <i>is/1+</i> Cardiovascular Progenitors Kenneth R. Chien, M.D., Ph.D., Harvard Medical School
11:40 – 12:05 p.m.	Dissecting Self-Renewal in Stem Cells With RNA Interference Natalia B. Ivanova, Ph.D., Princeton University
12:05 – 12:20 p.m.	Roundtable discussion
12:20 – 1:15 p.m.	Lunch (on your own)
1:15 – 3:15 p.m.	Session III: Vascular Regeneration – Where Vasculogenesis and Angiogenesis Collide Chairs: Stefanie Dimmeler, Ph.D., University of Frankfurt Manfred Boehm, M.D., Cardiology Branch, Division of Intramural Research, NHLBI
1:15 – 1:20 p.m.	Introduction to topic and speakers – session chairs
1:20 – 1:45 p.m.	VEGFs for More Vessels and Muscle Kari Alitalo, M.D., Ph.D., University of Helsinki
1:45 – 2:10 p.m.	Thymosin b4 Promotes Neovascularisation via Adult Epicardium: Translating Its Potential as a Novel Angiogenic Therapy Paul R. Riley, Ph.D., Institute of Child Health
2:10 – 2:35 p.m.	Endothelial Progenitor Cells for Vascular Medicine Takayuki Asahara, M.D., Ph.D., RIKEN Center for Developmental Biology/IBRI, Tokai University

2:35 – 3:00 p.m.	Circulating Progenitor Cells: Characterisation and Mechanisms of Action Stefanie Dimmeler, Ph.D., University of Frankfurt
3:00 – 3:15 p.m.	Roundtable discussion
3:15 – 3:30 p.m.	Break
3:30 – 5:30 p.m.	Session IV: Cardiac Regeneration I – Heart Development and Cardiac Regeneration Chairs: Jonathan A. Epstein, M.D., University of Pennsylvania School of Medicine Cecilia Lo, Ph.D., Laboratory of Developmental Biology, Division of Intramural Research, NHLBI
3:30 – 3:35 p.m.	Introduction to topic and speakers – session chairs
3:35 – 4:00 p.m.	microRNA Regulation of Cell Lineages in Mouse and Human Embryonic Stem Cells Deepak Srivastava, M.D., University of California, San Francisco
4:00 – 4:25 p.m.	Multipotent Progenitor Cells in the Developing and Adult Murine Heart Richard Harvey, Ph.D., Victor Chang Cardiac Research Institute, University of New South Wales
4:25 – 4:50 p.m.	Maintaining the Undifferentiated State Jonathan A. Epstein, M.D., University of Pennsylvania School of Medicine
4:50 – 5:15 p.m.	Cardiac Myogenesis in Embryonic Stem Cells Michael D. Schneider, M.D., Imperial College London
5:15 – 5:30 p.m.	Roundtable discussion
5:30 p.m.	Adjournment
5:45 – 6:45 p.m.	Poster Session and Networking Hour

Tuesday, October 2, 2007

8:00 – 10:25 a.m.	Session V: Toward Progenitor and Stem Cell-based Therapy – Lessons Learned from Large Animal Models and Clinical Trials Chairs: Joshua M. Hare, M.D., Miller School of Medicine–University of Miami Philippe Menasché, M.D., Ph.D., Hôpital Européen Georges Pompidou
8:00 – 8:05 a.m.	Introduction to topic and speakers – session chairs
8:05 – 8:30 a.m.	Mechanisms of Action and Clinical Utility of Mesenchymal Stem Cells in Cardiac Repair Joshua M. Hare, M.D., Miller School of Medicine–University of Miami

8:30 – 8:55 a.m.	Autologous CD34 Cell Therapy for Ischemic Tissue Repair Douglas W. Losordo, M.D., Northwestern University
8:55 – 9:20 a.m.	Lessons Learned From Large Animal Models and Clinical Trials Philippe Menasché, M.D., Ph.D., Hôpital Européen Georges Pompidou
9:20 – 9:45 a.m.	Clinical Benefit of Progenitor Cell Therapy in Acute Myocardial Infarction: Mechanisms and Future Directions Andreas M. Zeiher, M.D., University of Frankfurt
9:45 – 10:10 a.m.	Defining Human Endothelial Progenitor Cells Mervin C. Yoder, Jr., M.D., Indiana University School of Medicine
10:10 – 10:25 a.m.	Roundtable discussion
10:25 – 10:40 a.m.	Break
10:40 a.m. – 1:05 p.m.	Session VI: Cardiac Regeneration II – Adult Cardiac Muscle Progenitors Chairs: Catherine Verfaillie, M.D., Katholieke Universiteit Leuven Michael D. Schneider, M.D., Imperial College London
10:40 – 10:45 a.m.	Introduction to topic and speakers – session chairs
10:45 – 11:10 a.m.	Human Cardiac Stem Cells Piero Anversa, M.D., New York Medical College
11:10 – 11:35 a.m.	Cardiac Stem Cells From Human Endomyocardial Biopsies Eduardo Marbán, M.D., Ph.D., Johns Hopkins University School of Medicine
11:35 – 12:00 p.m.	Cardiac Side Population Cells: Role of BCRP1 Ronglih Liao, Ph.D., Brigham and Women's Hospital
12:00 – 12:25 p.m.	Repairing the Infarcted Heart: Roles for Endogenous and Exogenous Stem Cells Charles E. Murry, M.D., Ph.D., University of Washington Medical Center
12:25 – 12:50 p.m.	Periostin Induces Proliferation of Differentiated Cardiomyocytes and Promotes Cardiac Repair Bernhard Kuhn, M.D., Children's Hospital, Boston
12:50 – 1:05 p.m.	Roundtable discussion
1:05 – 2:00 p.m.	Lunch (on your own)
2:00 – 2:40 p.m.	Session VII: Selected Talks
2:00 – 2:05 p.m.	Introduction to session

- 2:05 – 2:15 p.m. **Fate Mapping of Neointima Formation in a Murine Vein-Arterial Graft Model**
Jason Mellad, Cardiology Branch, Division of Intramural Research, NHLBI
- 2:15 – 2:25 p.m. **Transplanted Human Embryonic Stem Cell-derived Cardiomyocytes Form Grafts in Nude Rat Hearts Exposed to Ischemia/Reperfusion**
Wangde Dai, M.D., The Heart Institute, Good Samaritan Hospital, University of Southern California
- 2:25 – 2:40 p.m. **NHLBI Cardiovascular Cell-Based Network**
Sonia I. Skarlatos, Ph.D., FAHA, Division of Cardiovascular Diseases, Division of Extramural Research, NHLBI
- 2:40 – 4:40 p.m.** **Session VIII: Regenerative Medicine Technologies**
Chairs:
Loren J. Field, Ph.D., Indiana University
Robert Balaban, Ph.D., Laboratory of Cardiac Energetics, Division of Intramural Research, NHLBI
- 2:40 – 2:45 p.m. Introduction to topic and speakers – session chairs
- 2:45 – 3:10 p.m. **Developmental Reprogramming After Chromosome Transfer Into Mitotic Mouse Zygotes**
Dieter Egli, Ph.D., Harvard Medical School
- 3:10 – 3:35 p.m. **A New Approach for Tracking Cell Fate in Animals – and Potentially Humans**
Richard T. Lee, M.D., Brigham and Women's Hospital
- 3:35 – 4:00 p.m. **Monitoring Myogenic Donor Cells: The Good, the Bad and the Ugly**
Loren J. Field, Ph.D., Indiana University School of Medicine
- 4:00 – 4:25 p.m. **Multimodality Imaging for the Assessment of Myocardial Cell Therapy**
Albert C. Lardo, Ph.D., Johns Hopkins University School of Medicine
- 4:25 – 4:40 p.m. Roundtable discussion
- 4:40 – 5:00 p.m.** **Concluding Remarks and Adjournment**
Manfred Boehm, M.D., Cardiology Branch, Division of Intramural Research, NHLBI

Last modified: September 26, 2007

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