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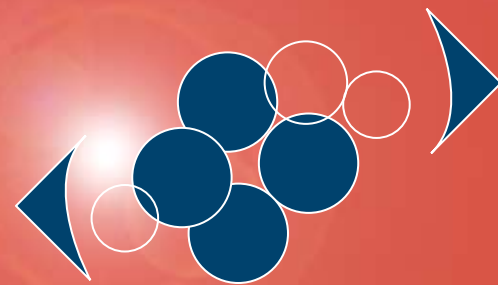
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THE THIRD
INTERNATIONAL CONFERENCE ON

Cell Therapy for Cardiovascular Diseases

January 17–19, 2007

The New York Academy of Medicine | New York, NY



COLUMBIA UNIVERSITY
MEDICAL CENTER



NewYork-Presbyterian
The University Hospital of Columbia and Cornell

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CME ACCREDITATION AND DESIGNATION



The Cardiovascular Research Foundation is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cardiovascular Research Foundation designates this educational activity for a maximum of *20 AMA PRA Category 1 Credit(s)*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity. Documentation of awarded credit is provided for registered attendees in exchange for completed activity evaluations. Certificates of attendance are provided to all registered attendees.

OVERVIEW

The Third International Conference on Cell Therapy for Cardiovascular Diseases is a three-day program dedicated to the evolving field of cell-based therapies for cardiac repair and regeneration. During this comprehensive conference, leaders in the field will convene to present their work, experiences, observations, and opinions on the benefits and drawbacks of the field.

Building upon last year's meeting, the conference encompasses all aspects of cell-based therapeutic approaches to cardiovascular diseases. Each day of the conference will focus on the following diseases and the future role of cell-based therapies:

Day 1 - STEMI: A comprehensive review of pathogenesis and current clinical guidelines, emphasizing early repair mechanisms, recent developments in cell and delivery technologies, and the latest results of clinical studies.

Day 2 - CHF: Similar in format to Day 1, CHF Day will address chronic ventricular dysfunction in a novel bedside-to-bench approach to functional cardiomyocytes. A new look at disease processes, current and next-generation cell preparations, and delivery strategies will lead into presentations of findings from recent clinical trials.

Day 3 - GLOBAL FRONTIERS: The final day will integrate a range of topics into the broad picture of cardiovascular repair. Highlights include angiogenesis and its pivotal role in both acute and chronic diseases, as well as studies in cell-based repair of other organ systems. The day will review the state of biological pacemakers and emphasize the major advances being made in the development of engineered cardiac tissue. We will conclude with a targeted discussion of "process": How do we best bring our scientific observations forward to meet the needs of patients?

Highlighted sessions include:

- Disease-specific cell preparations and cell delivery methods
- Angiogenesis: Cardiac and non-cardiac applications
- Embryonic vs adult-derived cells: How close are we to cardiomyocyte replacement?
- Innovations from biotechnology industry
- Tissue engineering: An expanded session to focus on myocardial, coronary, and valve replacement
- FIM 2007: A look ahead at first-in-human clinical studies expected to begin in 2007



LEARNING OBJECTIVES

After completion of this activity, the participant should be able to:

- Discuss the scientific bases for cell-based therapies
- Describe the capacity of specific cell-types for cardiac repair
- Recognize early clinical study results and the stage of efficacy trials
- Identify the development stages of next-generation cells, engineered tissue, and their expected first-in-human use
- Describe the evolution of stem cell programs nationally and internationally, and the issues that they face in further development in terms of resources, industry activities, strategies for collaboration, and regulatory policies

TARGET AUDIENCE

This conference is designed for clinicians and clinical investigators, interventional cardiologists, noninvasive cardiologists, cardiac surgeons, research associates, basic science investigators (cell and molecular biologists), members of public and private funding organizations, hospital administrators, program directors, legislators, and regulatory agency personnel.

ACTIVITY EVALUATION

Evaluation by questionnaire will address content, presentation, possible bias, and future educational needs.

DISCLOSURE DECLARATION

It is the policy of the Cardiovascular Research Foundation to ensure balance, independence, objectivity, and scientific rigor in all of its sponsored educational programs. Commercial support from industry does not influence educational content, faculty selection, and/or faculty presentations, and, therefore, does not compromise the scientific integrity of the educational activity. Discussion of off-label product usage is made at the sole discretion of the faculty and is not endorsed by the Cardiovascular Research Foundation or the course directors for this activity. Faculty participating in continuing medical education activities sponsored by the Cardiovascular Research Foundation are required to disclose to the program audience any real or apparent conflict of interest related to the content of their presentation(s). Faculty not complying with this policy are not permitted to participate in this activity.

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AGENDA



WEDNESDAY, JANUARY 17

STEMI

Basic

- 8:00 AM Welcome
Warren Sherman
- 8:10 AM Opening Remarks
Eric A. Rose
- 8:15 AM Acute Cellular Loss, Cell-Dependent Responses and Repair
Piero Anversa
- 8:30 AM Progenitor Cell Traffic After Coronary Occlusion
Stefanie Dimmeler
- 8:45 AM "Cross-Talk" Between Stem Cells and Target Cells
Jay Edelberg
- 9:00 AM Preclinical Study Designs of Progenitor Cells for Acute Cardiac Repair
Silviu Itescu
- 9:15 AM Discussion and Break

Clinical Background

- 10:00 AM Cell Tracking and Retention: Techniques and Relevance
Jonathan M. Hill
- 10:15 AM MRI: The Assessment and Importance of Microvascular Obstruction
Michael Poon

10:30 AM Assessment of Infarct Size in STEMI TRIALS: Direct and Surrogate Measures
Francisco Fernandez-Aviles

10:45 AM Stem Cell Trials in STEMI: A Proposed Framework for Assessing Outcomes
Jozef Bartunek

11:00 AM Discussion

11:15 AM Lunch Pick-Up

LUNCH BREAKOUTS: CONCURRENT SESSIONS

A: STEMI Specific Cell Delivery Techniques

11:30 AM Intracoronary Techniques
Andres M. Zeiher

11:45 AM Retrograde Coronary Venous Application
Todd J. Brinton

12:00 PM Guidance Systems for Intramyocardial Injections
Emerson C. Perin

12:15 PM Perivascular and Other Novel Strategies
Warren Sherman

12:30 PM Discussion

B: Generation-2 Cell and Molecular Products

11:30 AM Cytokines and Cell Activators
Bernardo Nadal-Ginard

11:45 AM Multipotent Adult Progenitor Cells
Marc Penn

12:00 AM Alginate and Infarct Remodeling
Jonathan Leor

12:15 PM Autologous Adipose-Derived Cells: Fast-Track Formulation
Stuart K. Williams

12:30 PM Discussion

CLINICAL STUDIES

Bone Marrow Studies

1:00 PM Osiris-1 Bone-Marrow-Derived Mesenchymal Cells
Joshua M. Hare

1:15 PM Lueven Experience: Randomized Study of BMMCs Early After STEMI
Stefan P. Janssens

1:30 PM Aalst Study: 2-Year Results of Intracoronary CD133 + Cells
Jozef Bartunek

1:45 PM REPAIR-AMI
Andreas M. Zeiher

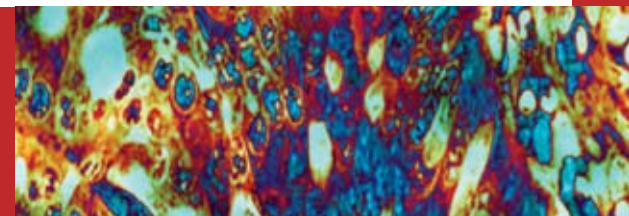
2:00 PM Break

GCSF and Factor Studies

2:15 PM FIRSTLINE Study: Mechanisms of Benefit After Early Administration
Christoph A. Nienaber

2:30 PM STEMMI: A Randomized, Controlled Study
Jens Kastrup

2:45 PM RECOVER: One Year Follow-Up
Stephen G. Ellis



3:00 PM Discussion and Break

Clinical Preview

3:45 PM "EPT": Early Phase Clinical Trials From the Past Year
Multiple Presenters

4:15 PM "FIM 2007": First-in-Human and Other STEMI Studies in the Coming Year
Warren Sherman

4:20 PM Discussion

4:45 PM Adjourn

**THURSDAY,
JANUARY 18**

**CONGESTIVE HEART
FAILURE**

Basic

8:00 AM Mechanisms of Chronic Cellular Loss and Dysfunction
Renu Virmani

8:20 AM Cell Signaling in Cardiac Regeneration
Nadia Rosenthal

8:40 AM The Gap Junction: Assessing the Electrical Interface
Loren Field

9:00 AM Discussion and Break

**Cardiac Progenitor Cell Sources:
Assessing Biology And Function**

9:45 AM Embryology-Guided, ESC-Derived Progenitor Cells
Gordon M. Keller

10:05 AM Bone Marrow-Derived Cardiac Progenitors
Ira S. Cohen

10:25 AM Adult Cardiac-Derived Stem Cells
Eduardo Marban

10:45 AM Human Embryonic Stem Cell Cardioblasts: Current Experience
Charles E. Murry

11:05 AM Discussion

11:20 AM Lunch Pick-Up

**LUNCH BREAKOUTS:
CONCURRENT SESSIONS**

**A: Cell Delivery Techniques in
Chronic Myocardial Disease**

11:30 AM Intramyocardial Catheter Injections: Trans-Venous Approach
Tomasz L. Siminiak

11:45 AM New Insights for Intramyocardial Delivery
Robert L. Wilensky

12:00 PM Retrograde Venous Administration: Comparative Results
Keith L. March

12:15 PM Intramyocardial Injections at Surgery: Standard and Novel Approaches
Amit N. Patel

12:30 PM Discussion

**B: Gen-2 Cell and
Combination Products**

11:30 AM Bone-Marrow-Derived Mesenchymal Cells
Silviu Itescu

11:45 AM SDF-Myoblasts
Marc Penn

12:00 PM Autologous Cardiac Progenitor Cells
Roberto Bolli

12:15 PM Adipose-Derived Cells
Francisco Fernandez-Aviles

12:30 PM Discussion

CLINICAL STUDIES

**Bone-Marrow-Derived
Progenitors**

1:00 PM Rostock CD-133+ Studies for LV Dysfunction
Gustav Steinhoff

1:15 PM Bone-Marrow-Derived Progenitors in LVAD Patients
Amit N. Patel

1:30 PM REGENERATE-DCM
Anthony Mathur

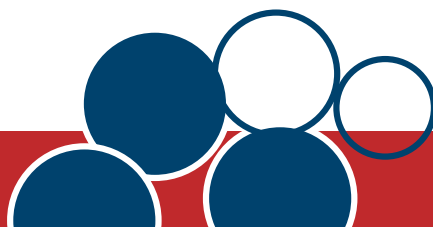
1:45 PM Intracoronary Bone Marrow Cells in Chronic Myocardial Disease
Andreas M. Zeiher

2:00 PM FOCUS-CHF
Emerson C. Perin

2:15 PM Discussion and Break

Muscle-Derived Progenitors

3:00 PM The MAGIC Trial
Philippe Menasche



- 3:15 PM US Surgical Experience with Autologous Myoblasts
Robert E. Michler
- 3:30 PM SEISMIC: Results of a Phase 2 Myoblast Trial
Patrick W. Serruys
- 3:45 PM Randomized Myoblast Study: University of Navarra
Felipe Prosper Cardoso
- 4:00 PM Discussion
- 4:20 PM EPT 2006: Early Phase Clinical Trials From the Past Year
Multiple Presenters
- 4:35 PM FIM 2007: First-in-Human and Other Studies for CHF in 2007
Warren Sherman
- 4:50 PM Adjourn

FRIDAY, JANUARY 19

GLOBAL FRONTIERS

Angiogenesis and Tissue Repair

- 8:00 AM Fundamental Role of Angiogenesis
Stephen E. Epstein
- 8:10 AM CD34+ Cells for Myocardial Ischemia: A Randomized Trial
Douglas Losordo

- 8:25 AM SEACOAST: Results of Intracoronary CD133+ Cells for CMI
Vincent Pompili
- 8:40 AM Progenitor Cells for Limb Ischemia
Takayuki Asahara
- 8:55 AM EPC for Idiopathic Pulmonary Hypertension: The PHACeT Trial
Duncan J. Stewart
- 9:10 AM Discussion
- 9:30 AM Mesenchymal Cells and Biologic Pacemakers: How Close Are We?
Michael R. Rosen
- 9:45 AM Discussion and Break

Engineered Cardiac Tissue

- 10:15 AM Overview and Goals
Gordana Vunjak-Novakovic
- 10:25 AM Platforms for Myocardial Tissue Construction
Timothy Martens
- 10:40 AM Implantable Myocardium: Results of Our Preclinical Program
Thomas Eschenhagen
- 10:55 AM Hydrogel Systems for Cardiac Repair
Smadar Cohen
- 11:10 AM Prosthetic Valves
John E. Mayer, Jr
- 11:25 AM Discussion and Stretch

CLOSING SESSION

Opening Doors for Patients: Approval and Process

- 11:55 AM Viewpoints of Patients and Clinical Investigators
Emerson C. Perin, Douglas Losordo
- 12:10 AM Industry Perspective
TBA
- 12:25 PM Guidelines for Basic and Clinical Research
Martha Lundberg, Stephen P. Janssens
- 12:45 PM Discussion
- 1:00 PM Closing Remarks
Warren Sherman



MEETING INFORMATION

JANUARY 17–19, 2007

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To make a reservation, please contact the Grand Hyatt New York at 1-800-233-1234. Please indicate that you are with the “CRF – Cell Therapy Conference” group to receive the preferred group rate of \$189.00 single/double per night.

Housing reservations must be made by December 27, 2006. Thereafter, housing and preferred group rates will be subject to availability. Room cancellations must be made in accordance with the hotel’s cancellation policy by 3:00 PM EST one day prior to arrival.

QUESTIONS

For registration information and questions regarding the Third International Conference on Cell Therapy for Cardiovascular Diseases, please contact:

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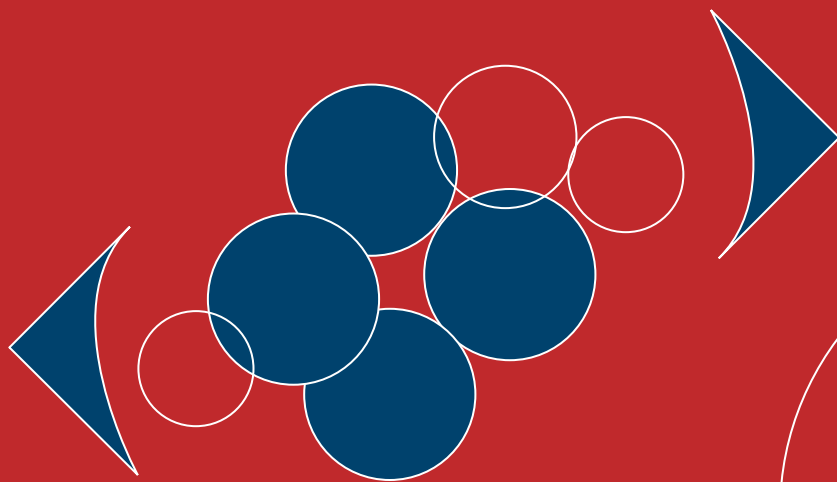


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