

This schedule may be subject to change

Morning

- 7:00—7:45 Registration and Breakfast
7:45—7:50 Opening Remarks
7:50—8:00 Stem Cell Research and Therapy at KU

Session I: Adult Stem Cell Therapy: The Clinical Evidence

- 8:05—8:25 **Advances in Cardiac Cell Therapy**
Robert Simari, MD
- 8:30—8:50 **CD34+ Cells for Infarct Repair**
Arshed Quyyumi, MD
- 8:55—9:15 **Bone Marrow Cells for Heart Repair**
Buddhadeb Dawn, MD
- 9:20—9:40 **Cell Therapy for Neurological Disorders**
Sean Savitz, MD
- 9:45—10:10 **Hematopoietic Stem Cell Transplantation for Multiple Sclerosis**
Richard Burt, MD

Coffee Break

Session II: Frontiers in Regeneration

- 10:30—10:55 **Mesenchymal Stem Cells for Wound Repair**
Jörg Gerlach, MD, PhD
- 11:00—11:20 **Application of Biomaterials in Regenerative Medicine**
Michael Detamore, PhD
- 11:25—11:45 **Current Clinical Trials in Parkinson's Disease**
Dana Winegamer, MD
- 11:45—11:55 **Where We Are With Cell Therapy for Graft Versus Host Disease**
Mark Weiss, PhD

Lunch Break

12:15—12:30 *Presentation by KS Governor, Sam Brownback*

12:30—1:00 *"Regulatory Considerations in Stem Cell Therapy" David Prentice, PhD*

Afternoon

Session III: Novel Cells and Approaches

- 1:00—1:20 **Induced Pluripotent Stem Cells From Adult Human Cells**
Rajasingh Johnson, PhD
- 1:25—1:45 **Wharton's Jelly Stem Cells as Delivery Vehicles**
Deryl Troyer, PhD
- 1:50—2:10 **Chimeric Antigen Receptor Modified T Cells for Solid Tumors**
Doug Myers, MD
- 2:15—2:35 **Next Generation Chimeric Antigen Modification**
Tom Yankee, PharmD, PhD

Coffee Break

- 2:50—3:10 **Advances in Stem Cell Transplantation**
Joseph McGuirk, DO
- 3:15—3:35 **Cord Blood Expansion—Novel Approaches**
Linheng Li, PhD
- 3:40—4:00 **Hyperbaric Oxygen Therapy to Enhance Cell Engraftment**
Omar Aljitawi, MD
- 4:05—4:25 **New Stem Cell Delivery Methods**
Nabil Dib, MD
- 4:30—5:00 **Panel Discussion:** Buddhadeb Dawn, MD, Robert Simari, MD, Sean Savitz, MD,
Michael Detamore, PhD, Dana Winegarner, MD, Richard Burt, MD, Nabil Dib, MD
- 5:00—6:00 **Abstract Poster Session / Reception**

Adjournment



Inaugural Session • November 23, 2013 • 7:30 a.m.—6:00 p.m.

Midwest Conference on Cell Therapy and Regenerative Medicine

Sheraton Kansas City Hotel at Crown Center, Kansas City, MO



Course Director

Buddhadeb Dawn, MD, Executive Director, Midwest Stem Cell Therapy Center; Director, KU Cardiovascular Research Institute; Cardiovascular Division Director, Department of Medicine, University of Kansas Medical Center, Kansas City KS

Invited Faculty

Omar Aljitawi, MD, Assistant Professor, Division of Hematology & Oncology, University of Kansas Medical Center, Kansas City KS

Richard Burt, MD, Chief, Division of Medicine—Immunotherapy and Autoimmune Diseases, Northwestern University Feinberg School of Medicine, Chicago IL

Michael Detamore, PhD, Professor of Chemical and Petroleum Engineering, Courtesy Professor of Mechanical Engineering, University of Kansas, Lawrence, KS

Nabil Dib, MD, Director, Cardiovascular Research, Heart Sciences Center, Mercy Gilbert Medical Center, Chandler Regional Medical Center, Dignity Health Members, Director, Clinical Cardiovascular Cell Therapy, Associate Professor of Medicine University of California, San Diego, Founder and President, International Society for Cardiovascular Translational Research (ISCTR), Founder, Co-Editor-in-Chief, Journal of Cardiovascular Translational Research (JCTR)

Jörg Gerlach, MD, PhD, Professor of Surgery and Bioengineering, Bioreactor Group, McGowan Institute for Regenerative Medicine, University of Pittsburgh, Pittsburgh, PA

Rajasingh Johnson, PhD, Assistant Professor, Cardiovascular Research Institute, University of Kansas Medical Center, Kansas City KS

Linheng Li, PhD, Stowers Institute For Medical Research, Kansas City MO; Professor, Department of Pathology & Laboratory Medicine, The University of Kansas School of Medicine, Kansas City KS

Joseph McGuirk, DO, Professor of Medicine, Division of Hematology & Oncology, University of Kansas Medical Center, Kansas City KS

Doug Myers, MD, Associate Professor of Pediatrics, University of Missouri-Kansas City School of Medicine; Department of Pediatric Hematology & Oncology, Children's Mercy Hospital, Kansas City MO

David Prentice, PhD, Senior Fellow of Life Sciences, Family Research Council, Washington DC

Arshed Quyyumi, MD, Co-Director, Emory Clinical Cardiovascular Research Institute, Professor of Cardiology, Emory University, Atlanta, GA

Sean Savitz, MD, Professor of Neurology, Frank M. Yatsu, M.D. Chair in Neurology, Department of Neurology, University of Texas Medical School at Houston, Houston TX

Robert Simari, MD, Professor of Medicine, College of Medicine, Dean, Clinical and Translational Research, Vice Chair, Division of Cardiovascular Diseases, Mayo Clinic, Rochester MN

Deryl Troyer, PhD, Professor of Anatomy & Physiology, Kansas State University, Manhattan KS

Mark Weiss, PhD, Professor of Neuroscience and Stem Cell Biology, Associate Director, Terry C Johnson Cancer Center, Founding Fellow, Midwest Institute of Comparative Stem Cell Biology, Kansas State University Dept of Anatomy and Physiology Kansas State University, Manhattan KS

Dana Winegarner, MD, Neurologist, Rowe Neurology Institute, Lenexa KS

Tom Yankee, PharmD, PhD, Associate Professor, Microbiology, Molecular Genetics, and Immunology, University of Kansas Medical Center, Kansas City KS