

ISCT SOMATIC: **INNOVATIONS IN
CB & MSC THERAPIES**

September 14 & 15, 2009 Co-Chairs: *EJ Shpall and Robert Deans*

All sessions will be held in room Haverford/Baccarat

Exhibits, Breaks and Meals will be held in the Crystal Foyer (outside Haverford/Baccarat)

Sunday, September 13, 2009	
5:00pm–7:00pm	Registration
6:30pm–8:00pm	Welcome Reception with Exhibits
Monday, September 14, 2009	
6:45–12:30pm	Registration
1:30pm–6:30pm	
7:00–7:45am	Breakfast
7:45–8:00am	Welcome
	Tutorial – Update on Current MSC Trials
	Chair: Bob Deans, PhD – <i>Athersys, Inc.</i>
	Speakers:
8:00–9:20am	<i>Human Bone-Marrow Derived Mesenchymal Stem Cells for Therapy of Graft versus Host Disease</i>
	Partow Kebriaei, MD – <i>M.D. Anderson Cancer Center</i>
	<i>MSC for GvH – The European Experience</i>
	Katarina Le Blanc, MD, PhD – <i>Karolinska University Hospital Huddinge</i>
	Plenary Session #1 – Policy Session NIH
	Chair: David F. Stroncek, MD, Cell Processing Section, Dept of Transfusion Medicine, <i>NIH</i>
	Speakers:
9:20–10:50am	<i>NHLBI Resources for Cell Therapy</i>
	Elizabeth Wagner, MPH – <i>NHLBI</i>
	<i>NIH / NHLBI Stimulus Package, Broad Directions</i>
	John W. Thomas, PhD – <i>NHLBI</i>
	<i>Intramural Program NIH</i>
	Dan Fowler, MD – <i>National Cancer Institute</i>
10:50–11:05am	Break with Exhibits
	Tutorial – Cord Blood Stem Cells and Non-Hematopoietic Therapeutic Indications
	Chair and Speaker:
	<i>Cord Blood Transplantation for genetic and acquired brain injuries</i>
	Joanne Kurtzberg, MD – <i>Duke University Medical Center</i>
	Speakers:
	<i>A physical dimension to ex vivo expansion</i>
	John Rasko, MBBS PhD FRCPA FRACP – <i>Cell and Molecular Therapies, RPA Hospital, Sydney</i>
	Wise Young, PhD, MD – <i>Rutgers University</i>
12:25–1:10pm	Lunch with Exhibits

1:10–2:40pm	<p>Plenary Session #2 – iPS from UCB</p> <p>Chair: Jan Nolta, PhD – UC Davis</p> <p>Speakers: <i>Human Cord Blood Derived iPS Cells From Unrestricted Somatic Stem Cell (USSC) :Towards a Molecular Signature</i> Peter Wernet, MD – Heinrich Heine University Medical Center <i>Human iPS cells from MSCs and blood cells of healthy donors and patients</i> Linzhao Cheng, PhD – Johns Hopkins University School of Medicine</p>
2:40–2:55pm	Break with Exhibits
2:55–4:15pm	<p>Tutorial – Cord Blood Immune Cells</p> <p>Chair: Mary Laughlin, MD – Case Western Reserve University</p> <p>Speakers: <i>Expansion of NK-cell and Antigen-specific T cells from cord blood for clinical use</i> Catherine Bollard, MD, FRCPA – CCGT, Baylor College of Medicine <i>NK cells, their receptors and implications for UCB transplantation</i> Jeffrey Miller, MD – University of Minnesota Masonic Cancer Center <i>Human T regulatory cell therapy: take a billion or so and call me in the morning</i> Jim Riley, PhD – University of Pennsylvania School of Medicine</p>
4:15–5:45pm	<p>Plenary Session #3 – UCB Basic/Translational Science</p> <p>Chair & Speaker: <i>Introduction and CD26/Dipeptidylpeptidase IV Regulation of Hematopoiesis</i> Hal Broxmeyer, PhD – Indiana University School of Medicine</p> <p>Speakers: <i>Prostaglandin E₂ Enhances Function of Hematopoietic Stem Cell Grafts</i> Louis Pelus, PhD – Indiana University School of Medicine <i>Epigenetic control of hematopoiesis</i> David Bodine, PhD – National Human Genome Research Institute</p>
5:45–6:00pm	Break
6:00–7:20pm	<p>Tutorial – Alternative Strategies for Gene Delivery</p> <p>Chair: Daniel Powell, PhD – University of Pennsylvania – Clinical Cell Vaccine Production Facility</p> <p>Speakers: <i>Lentiviral deliveries</i> Boro Dropulic, PhD, MBA – Lentigen Corporation <i>Application, advantages and limitations to RNA electroporation</i> Linhong Li, PhD and Madhusudan Peshwa, PhD – Maxcyte, Inc. <i>Genome Editing Using Engineered Zinc Finger Nucleases</i> Edward Rebar, PhD – Sangamo BioSciences</p>
Tuesday, September 15, 2009	
8:00–12:30pm 1:30–5:30pm	Registration
8:15–9:00am	Breakfast

9:00–10:30am	<p>Plenary Session #4 – T cell–based Therapies</p> <hr/> <p>Chair: Daniel Powell, PhD – University of Pennsylvania – Clinical Cell Vaccine Production Facility</p> <p>Speakers: <i>Engineered T Cell Therapy</i> Gianpietro Dotti, MD – Baylor College of Medicine <i>Engineering Regulatory and Effector T cells with Artificial Antigen Presenting Cells</i> Bruce Levine, PhD – University of Pennsylvania <i>Tumor Infiltrating Lymphocytes for adoptive immunotherapy</i> Daniel Powell, PhD</p>
10:30–10:45am	Break with Exhibits
10:45–12:15pm	<p>Tutorial – Cord Blood Graft Manipulation</p> <hr/> <p>Chair and Speaker: EJ Shpall, MD – M.D. Anderson Cancer Center</p> <p>Speakers: <i>C3a Priming to Improve Engraftment after Umbilical Cord Blood Transplantation</i> Claudio Brunstein, MD, PhD – University of Minnesota <i>Notch Ligand–Based Cord Blood Expansion : Clinical Results</i> Colleen Delaney, MD, MSc – Fred Hutchinson Cancer Center</p>
12:15–1:45pm	<p>Corporate Lunch Tutorial Sponsored by Athersys, Inc.</p> <hr/> <p><i>Cell Therapy and Medical Tourism</i> Speaker: Linda Powers – Toucan Capital</p>
1:45–3:15pm	<p>Plenary #5 – MSC in Neurodegenerative Disease</p> <hr/> <p>Chair: Mercedes Serabian, MS, DABT – FDA/CBER/OCTGT</p> <p>Speakers: <i>The role of MSCs in the treatment of multiple sclerosis; translation from preclinical to clinical</i> Antonio Uccelli, MD – University of Genoa <i>MSCs and Other Cellular Types for Stroke</i> Sean Savitz, MD – The University of Texas Medical School <i>The role of MSCs in the treatment of Huntington’s disease; translation from preclinical to clinical</i> Jan Nolte, PhD – UC Davis School of Medicine</p>
3:15–3:30pm	Break with Exhibits
3:30–5:00pm	<p>Plenary #6 – Stem Cells/Biomaterials in Vascular Regenerative Medicine</p> <hr/> <p>Chair: Ed Snyder, MD – Yale University School of Medicine</p> <p>Speakers: <i>Tissue Engineered Vascular Grafts: From bench to bedside and back again</i> Chris Breuer, MD – Yale University School of Medicine <i>Clinical Trials of Tissue Engineered Vascular Grafts in Patients with Congenital Cardiac Anomalies: An 8 year follow up</i> Toshiharu Shinoka, MD, PhD – Yale University School of Medicine <i>Vascular Regenerative Medicine: Challenges Integral to Licensure</i> Kiki Hellman, PhD – The Hellman Group, LLC</p>