

## Day 1: April 26, 2012 (Thursday)

6:00 – 8:00 pm	Registration Reception	Silverado East Foyer Fairway Deck
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## Day 2: April 27, 2012 (Friday)

7:00 – 8:00 am	Breakfast	Fairway Deck
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### Welcome

8:00 – 8:15 am	Stephen F. Badylak	Silverado East
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### Session I: Decellularized Tissues for Reconstruction of Whole Organs and Complex Tissues

**Chair: Buddy Ratner**

8:15 – 8:35 am	Paolo Macchiarini	<i>Clinical Experience with Airway Tissue Replacement</i>
8:35 – 8:55 am	Angela Panoskaltsis-Mortari	<i>Tissue Engineering Lungs From Bone Marrow</i>
8:55 – 9:15 am	Thomas W. Gilbert	<i>Epithelialization of Decellularized Tracheal Constructs</i>
9:15 – 9:30 am	Break	Fairway Deck
9:30 – 9:50 am	Joan Nichols	<i>Human Immune Responses to Acellular Lung Scaffolds Produced using Different Methods</i>
9:50 – 10:10 am	Jeff J. Ross	<i>Engineering a Transplantable, Revascularized Liver Graft for the Treatment of Liver Disease</i>
10:10 – 10:30 am	Brogan N. Guest	<i>Systematic Analysis of Decellularization Techniques for Lung Tissue</i>

### Keynote Address

10:30 – 11:30 am	Mina Bissell	<i>Cell-Cell and Cell-ECM Interactions in Designer Microenvironments in Functional Analysis</i>
11:30 – 11:45 am	Discussion	

11:45 – 1:30 pm                      Lunch    Fairway Deck

## **Session II: Biologic Scaffolds for Soft Tissue Reconstruction**

**Co-Chair:        Karen Christman**

1:30 – 1:50 pm                      J. Scott Roth    *Efficiency and Effectiveness of Biologic Scaffolds for Abdominal Hernias*

1:50 – 2:10 pm                      Claudio Calabrese    *Clinical Application of Adipose Engineered Tissue in Breast Reconstruction: A Translational Experience*

2:10 – 2:30 pm                      Mark E. Fleming    *Regenerative Medicine Applications in Combat Casualty Care*

2:30 – 2:45 pm                      Break    Fairway Deck

**Co-Chair:        Bryan Brown**

2:45 – 3:05 pm                      Mary Beth Fisk    *Challenges of Manufacturing Biologic Scaffold Materials*

3:05 – 3:25 pm                      Saik Kia Goh    *Perfusion-Decellularization of Pancreas as a Scaffold for the Differentiation of Human Embryonic Stem Cells into Insulin-Producing Cells*

3:25 – 3:45 pm                      Nathan V. Welham    *Proteomic Analysis of Tissue Decellularization*

3:45 – 4:05 pm                      Mark Kindy    *The Impact of Different Extracellular Matrices on Regeneration and Repair of the CNS*

4:05 pm                                      Adjourn

6:30 – 8:00 pm                      Wine Reception    Fairway Deck

## **Day 3: April 28, 2012 (Saturday)**

7:00 – 8:00 am                      Breakfast    Fairway Deck

### **Welcome**

8:00 – 8:10 am                      Stephen F. Badylak    Silverado East

## **Session III: Success / Failure of Biologic Scaffolds Dependent Upon Host Response**

**Co-Chair:        Tom Gilbert**

8:10 – 8:35 am	James Tidball	<i>Regulation of Muscle Regeneration by Myeloid Cells</i>
8:35 – 9:00 am	Steve Badylak	<i>The Macrophage, Biomaterials and Regenerative Medicine</i>
9:00 – 9:25 am	Massimo Locati	<i>Immunologic and Metabolic Correlates of Macrophage Polarized Activation</i>
9:25 – 9:40 am	Break	Fairway Deck
9:40 – 10:05 am	Buddy Ratner	<i>Scaffold Polarization of Polarized Macrophages in the Foreign Body Reaction</i>
10:05 – 10:30 am	Julia Babensee	<i>Immunomodulation Strategies Using Biomaterials</i>
10:30 – 10:55 am	Bryan Brown	<i>Methods and Challenges in the Evaluation of Macrophage Polarization Following Biomaterial Implantation</i>
10:55 – 11:10 am	Break	Fairway Deck

**Co-Chair: Mark Kindy**

11:10 – 11:35 am	Karen Christman	<i>Catheter Deliverable Cardiac Extracellular Matrix Derived Hydrogel for Treating Myocardial Infarction</i>
11:35 – 12:00 pm	Jason Schulte Dan Simionescu	<i>A Novel Decellularized and Vascularized Scaffold for Tissue-Engineered Regeneration of Myocardium</i>
12:00 – 1:30 pm	Lunch	Fairway Deck

#### **Session IV: Biologic Scaffolds for Cardiovascular Regenerative Medicine**

**Chair: Chris Dearth**

1:30 – 1:50 pm	Harald Christian Ott	<i>Regenerating Organs for Transplantation - Moving Towards Translation</i>
1:50 – 2:10 pm	Anita Driessen-Mol	<i>Decellularized in-vitro cultured tissue-engineered heart valves as off-the-shelf biological starter matrices for tissue regeneration</i>
2:10 – 2:30 pm	David Schornik Frantisek Straka	<i>The Significance and Organization of Extracellular Matrix of Autologous Human Pericardium for Heart Valve Tissue Engineering</i>

#### **Session V: Biologic Scaffolds for Replacement of Complex Tissues**

**Chair: Steve Badylak**

2:30 – 2:50 pm	Blair Jobe	<i>Use of ECM in the Human Esophagus: Initial Experience of Esophageal Preservation in Patients with Barrett's and Early Stage Cancer</i>
2:50 – 3:10 pm	Allen Gabriel	<i>Use of Acellular Dermal Matrix in Breast Surgery</i>
3:10 – 3:25 pm	Break	Fairway Deck
3:25 – 3:45 pm	Dennis P. Orgill	<i>Collagen-GAG scaffolds: Bench to Bedside and Back</i>
3:45 – 4:05 pm	Adam W. Feinberg	<i>Bottom-Up Engineering of the Extracellular Matrix</i>
4:05 – 4:25 pm	Sarah Mayes	<i>Promoting nerve injury isolation and regeneration with a bilayer polysaccharide-based hydrogel film</i>
4:25 – 4:35 pm	Steve Badylak	Closing Remarks & Adjourn