

# Ninth Symposium on Biologic Scaffolds for Regenerative Medicine

\*\*\* Draft Program \*\*\*

## Day 1: April 28, 2016 (Thursday)

6:00 – 8:00 pm Registration Silverado East Foyer

Reception Fairway Deck

## Day 2: April 29, 2016 (Friday)

7:00 – 8:00 am Breakfast Fairway Deck

### Welcome

8:00 – 8:05 am Stephen F. Badylak, DVM, PhD, MD  
*University of Pittsburgh* Silverado East

### Keynote Address

8:05 – 8:40 am Robert M. Nerem, PhD  
*Georgia Institute of Technology* Regenerative Medicine: Harnessing the Power of the Intrinsic Human Biology

### Session I: Biologic Scaffold for Cardiac Reconstruction Chair: TBD

8:40 – 9:05 am Frederick J. Schoen, MD, PhD  
*Brigham and Women's Hospital and Harvard Medical School* Role of matrix and cell dynamics in heart valve health and disease

9:05 – 9:25 am Robert Matheny, MD FACS  
*CorMatrix Cardiovascular, Inc.* Development of a SIS Regenerative Heart Valve; From Benchtop to Clinical Trial

9:25 – 9:45 am Dan T. Simionescu, Ph.D. Development of chemically stabilized acellular cardiac valve scaffolds and in vivo testing in a sheep right ventricular outflow tract model

9:45 – 10:05 am Allan S. Stewart, MD  
*Mount Sinai Health System* The evolution of intra-cardiac biologic scaffolds: where have we been and where are we going

10:05 – 10:25 am Lauren D. Black III Acellular Cardiac Extracellular Matrix-Silk Patches for Cardiac Repair post-Myocardial Infarction

10:25 – 10:45 am Break Fairway Deck

### Session II: Biologic Scaffolds for Plastic and Reconstructive Surgery Chair: TBD

10:45 – 11:05 am Robert G. Martindale, MD, PhD  
*Oregon Health & Science University* Metabolic end products of absorbable bioscaffolds in soft tissue repair; are they helping or hurting us?

11:05 – 11:25 am Anders Sandin Use of Biodesign® after chest wall resection in children: - Our experience in two cases

11:25 – 11:45 am Adam Young The Use of Urinary Bladder Matrix for Body Wall Repair in Multiple Preclinical Models

11:45 – 12:05 pm Nicholas C. Pashos Characterization of a Biologically Derived Graft for Nipple-Areolar Complex Reconstruction

12:05 – 12:25 pm	Jenna Dziki	Biologic Scaffold Treatment for Volumetric Muscle Loss: Results of a Thirteen Patient Cohort Study
12:25 – 1:45 pm	Lunch	Fairway Deck
<b>Session III: TBD Biologic Scaffolds for TBD</b>		
<b>Chair: TBD</b>		
1:45 – 2:05 pm	Karen L. Christman	Mechanisms of action of a myocardial matrix hydrogel for treating myocardial infarction
2:05 – 2:25 pm	Inkyung Kang	A Role for Versican in Engineered Tissues: Modulating Elasticity and Inflammation
2:25 – 2:45 pm	David M. Adelman, MD PhD FACS	Defining the Device to Tissue Transition in Fetal Bovine Acellular Dermal Matrix
2:45 – 3:05 pm	George Hussey	A novel bioactive component of biologic scaffolds: Implications for tissue repair and regeneration
3:05 – 3:25 pm	Break	Fairway Deck
<b>Session IV: Biologic Scaffolds for TBD</b>		
<b>Chair: TBD</b>		
3:25 – 3:45 pm	TBD	TBD
3:45 – 4:05 pm	Cyrus Ghajar, PhD <i>Fred Hutchinson Cancer Research Center</i>	Where the Wild Things Are: Perivascular regulation of disseminated tumor cell dormancy and chemoresistance.
4:05 – 4:25 pm	Matthew T. Wolf	Urinary Bladder Extracellular Matrix Inhibits Tumor Formation
4:25 – 4:45 pm	Arnold I. Caplan, PhD <i>Case Western Reserve University</i>	MSCs: how they work and why( some surprises)
4:45 – 5:05 pm	Nikhil Gheewala, PhD	Developing a standard approach to evaluating the decellularization of biomaterial ECMs
5:05 pm	Adjourn	
6:30 – 7:15 pm	Poster Session & Wine Reception	Fairway Deck
7:15 – 8:00 pm	Entertainment	Fairway Deck
<b>Day 3: April 30, 2016 (Saturday)</b>		
7:00 – 8:00 am	Breakfast	Fairway Deck
<b>Welcome</b>		
8:00 – 8:05 am	Stephen F. Badylak, DVM, PhD, MD <i>University of Pittsburgh</i>	Silverado East
<b>Keynote Address</b>		
8:05 – 8:40 am	Laura E Niklason, MD, PhD Yale University	The Agony and the Ecstasy of Getting into the Clinic
<b>Session V: TBD</b>		
<b>Chair: Bryan N. Brown, PhD <i>University of Pittsburgh</i></b>		

8:40 – 9:05 am	Nadia Rosenthal, PhD <i>Monash University, Australia</i> <i>The Jackson Laboratory, Bar Harbor</i>	Immune control of cardiac repair
9:05 – 9:30 am	Jeffrey M. Davidson, PhD <i>Vanderbilt University Medical Center</i>	Multiscale Properties of ECM Scaffolds
9:30 – 9:55 am	C. James Kirkpatrick MD, PhD, DSc, FRCPATH <i>Johannes Gutenberg University, Germany &amp; University of Gothenburg, Sweden</i>	Developing in vitro & in vivo models to study tissue reactions to biologic scaffolds
9:55 – 10:30 am	Break	Fairway Deck
<b>Session VI:</b>	<b>Role of the Macrophage in Bioscaffold Induced Tissue Reconstruction</b>	
	<b>Chair:</b> Charles D. Mills, PhD ( <i>BioMedical Consultants</i> )	
10:30 – 10:50 am	Charles D. Mills, PhD <i>BioMedical Consultants</i>	Macrophages. The Chicken and the Egg in Immune Responses to Injury or Biologic Scaffolds
10:40 – 11:00 am	Kaitlyn Sadtler	Th2 T cells are required for extracellular matrix-mediated functional muscle regeneration
11:00 – 11:20 am	Hui Li	Macrophage phenotype profile regulated by tissue matrices for Screening of Biomaterials
11:20 – 11:40 am	Samuel T. LoPresti	Effect of Source Animal Age upon Macrophage Response to ECM Scaffolds
11:40 – 12:00 pm	Wendy F. Liu	Regulation of macrophage function by engineered biopolymer scaffolds
12:00 – 1:20 pm	Lunch	Fairway Deck
<b>Session VII:</b>	<b>Biologic Scaffolds for CNS, Whole Organ, Skin, and Cartilage Reconstruction</b>	
	<b>Chair:</b>	
1:20 – 1:40 pm	Kristen Jones, MD <i>University of Minnesota</i>	TBD
1:40 – 2:00 pm	Hilton Kaplan MBChB FCSSA PhD	Decellularized Allogeneic Neurovascular Bundles for Reinnervation and Revascularization in Soft and Hard Tissue Reconstruction, the Rehabilitation of Massive Scarring, and Engineered Tissues
2:00 – 2:20 pm	Jeff Ross, PhD	Engineering a Clinically Relevant Transplantable Liver with Sustained In-Vivo Perfusion
2:20 – 2:40 pm	Karthikeyan Narayanan	Decellularized organs: Whole organ construction with stem cells
2:40 – 3:00 pm	Ian L. Valerio, MD, MS, MBA	Application of bioartificial dermal regeneration templates for skin restoration in combat casualty injuries
3:00 – 3:20 pm	Byoung-Hyun Min, MD, PhD	Biomembrane from porcine cartilage extracellular matrix contributes enhancement of efficacy of Microfracture for cartilage repair- Clinical results followed up 1 year postoperatively
3:20 – 3:45 pm	Break	Fairway Deck
<b>Session VIII:</b>	<b>TBD</b>	
	<b>Chair:</b>	

3:45 – 4:05 pm	Kenneth Burhop	Collagen Matrix: Structure & Function - Translating to New Opportunities in Regenerative Medicine
4:05 – 4:25 pm	Inna Kornienko	Low-immunogenic matrix suitable for transplantation
4:25 – 4:50 pm	Bryan N. Brown, PhD	Extracellular Matrix-based Device for Reconstruction of the Temporomandibular Joint Meniscus
4:50 – 5:00 pm	Stephen F. Badyak, DVM, PhD, MD <i>University of Pittsburgh</i>	Closing Remarks & Adjourn

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