## Ninth Symposium on Biologic Scaffolds for Regenerative Medicine \*\*\* Final Program \*\*\*

Day 1: Apr	il 28, 2016 (Thursday)			
6.00 8.00 ~~	Pagistration	Silvorado East Eavar		
6:00 – 8:00 pm	Registration	Silverado East Foyer		
	Reception	Fairway Deck		
Day 2: Apr	il 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 Intrinsic Power of the Human Body		
Session I: Biologic Scaffold for Cardiac Reconstruction Chair: Karen L. Christman, PhD, FAHA (University of California, San Diego)				
8:40 – 9:15 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		
9:15 – 9:45 am	Robert Matheny, MD, FACS CorMatrix Cardiovascular, Inc.	Development of a SIS Regenerative Heart Valve; From Benchtop to Clinical Trial		
9:45 – 10:05 am	Dan T. Simionescu, PhD <i>Clemson University</i>	Development of Chemically Stabilized Acellular Cardiac Valve Scaffolds and in Vivo Testing in a Sheep Right Ventricular Outflow Tract Model		
<u> 10:05 – 10:25 am</u>	Lauren D. Black III, PhD Tufts University	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: George Hussey, PhD (University of Pittsburgh)				
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	Olof Holmquist, MD Queen Silvias Childrens Hospital	Use of Biodesign® after Chest Wall Resection in Children: Our Experience in Two Cases		
11:25 – 11:45 am	D. Adam Young, PhD <i>ACell, Inc.</i>	The Use of Urinary Bladder Matrix for Body Wall Repair in Multiple Preclinical Models		
11:45 – 12:05 pm	Nicholas C. Pashos, BS Tulane University School of Medicine	Characterization of a Biologically Derived Graft for Nipple-Areolar Complex Reconstruction		
12:05 – 12:25 pm	Kristen Jones, MD <i>University of Minnesota</i>	Neuroprotective Potential of Biologic Scaffolds in Acute Stroke and Human Translational Feasibility: A Neurosurgeon's Perspective		

12:25 – 1:45 pm	h Lunch	Fairway Deck
	Mechanisms by Which ECM Scaffolds In	fluence Cell Behavior and the
Session III:	Associated Clinical Implications	rn Dooor (o University)
	Chair: Arnold I. Caplan, PhD (Case Wester	Mechanisms of Action of a Myocardial
	Karen L. Christman, PhD, FAHA	Matrix Hydrogel for Treating Myocardial
1:45 – 2:05 pm	University of California, San Diego	Infarction
·	Inkyung Kang, PhD	
	Benaroya Research Institute at	A Role for Versican in Engineered Tissues:
2:05 – 2:25 pm	Virginia Mason	Modulating Elasticity and Inflammation
	David M. Adelman, MD, PhD, FACS The University of Texas MD Anderson	Defining the Device to Tissue Transition in
2:25 – 2:45 pm	Cancer Center	Fetal Bovine Acellular Dermal Matrix
<u></u>		A Novel Bioactive Component of Biologic
	George S. Hussey, PhD	Scaffolds: Implications for Tissue Repair
2:45 – 3:05 pm	University of Pittsburgh	and Regeneration
3:05 – 3:25 pm	Break	Fairway Deck
	Some Basic Concepts of ECM and ECM	Bioscaffolds
Session IV:	Chair: Laura E Niklason, MD, PhD (Yale U	
	Robert Mecham, PhD	
	Washington University School of	Extracellular Matrix Organization and
3:25 – 3:45 pm	Medicine	Function
	Cyrus Ghajar, PhD Fred Hutchinson Cancer Research	Where the Wild Things Are: Perivascular
3:45 – 4:05 pm	Center	Regulation of Disseminated Tumor Cell Dormancy and Chemoresistance.
0.40 – 4.00 pm		· · · · ·
1:05 1:25 pm	Matthew T. Wolf, PhD	Urinary Bladder Extracellular Matrix Inhibits Tumor Formation
4:05 – 4:25 pm	Johns Hopkins University	
	Arnold I. Caplan, PhD	MSCs: How They Work and Why (Some
4:25 – 4:45 pm	Case Western Reserve University	Surprises) Developing a Standard Approach to
	Nikhil Gheewala, PhD	Evaluating the Decellularization of
4:45 – 5:05 pm	ACell, Inc.	Biomaterial ECMs
5:05 pm	Adjourn	
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6:00 – 7:30 pm	Poster Session & Wine Reception	Fairway Deck
Dav 3: A	pril 30, 2016 (Saturday)	
7:00 – 8:00 am	Breakfast	Fairway Deck
7.00 – 0.00 am	Dieakiasi	Failway Deck
Welcome		
	Stephen F. Badylak, DVM, PhD, MD	
8:00 – 8:05 am	University of Pittsburgh	Silverado East
Keynote Addre	SS	
8:05 – 8:40 am	Laura E Niklason, MD, PhD Yale University	The Agony and the Ecstasy of Getting into the Clinic
	ell:Matrix Interactions and Clinical Releva	
Soccion V·	hair: Robert Mecham, PhD (Washington U	
	Nadia Rosenthal, PhD, FMedSci,	
	FAAHMS	
	The Jackson Laboratory, Bar Harbor	
8:40 – 9:05 am	Imperial College London, UK	Immune Control of Cardiac Repair

0.05 0.00	Jeffrey M. Davidson, PhD			
9:05 – 9:30 am	Vanderbilt University Medical Center	Multiscale Properties of ECM Scaffolds		
	C. James Kirkpatrick MD, PhD, DSc, FRCPath			
	Johannes Gutenberg University,	Developing in Vitro & in Vivo Models to		
	Germany & University of Gothenburg,	Study Tissue Reactions to Biologic		
9:30 – 9:55 am	Sweden	Scaffolds		
9.50 - 9.55 am	Sweden	Scanoids		
	Drash	Fairway Dask		
9:55 – 10:30 am	Break	Fairway Deck		
	ole of the Macrophage in Bioscaffold Ir nair: Charles D. Mills, PhD ( <i>BioMedical</i> (			
		Macrophages. The Chicken and the Egg in		
	Charles D. Mills, PhD	Immune Responses to Injury or Biologic		
10:30 – 10:50 am	BioMedical Consultants	Scaffolds		
		Th2 T Cells are Required for Extracellular		
40.50 44.40 am	Kaitlyn Sadtler, BS	Matrix-Mediated Functional Muscle		
10:50 – 11:10 am	Johns Hopkins University	Regeneration		
	Hui Li, PhD	Macrophage Phenotype Profile Regulated by Tissue Matrices for Screening of		
11:10 – 11:30 am	Life Cell Corporation-Acelity	Biomaterials		
11.10 - 11.30 alli				
	Samuel T. LoPresti, BS	Effect of Source Animal Age upon		
11:30 – 11:50 am	University of Pittsburgh	Macrophage Response to ECM Scaffolds		
	Wendy F. Liu, PhD	Regulation of Macrophage Function by		
11:50 – 12:10 pm	University of California, Irvine	Engineered Biopolymer Scaffolds		
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10:10 1:20 pm	Lunch	Foirway Deck		
12:10 – 1:20 pm	Lunch	Fairway Deck		
	ologic Scaffolds for CNS, Whole Organ nair: Bryan N. Brown, PhD (University of			
		Biologic Scaffold Treatment for Volumetric		
	Jenna Dziki, BS	Muscle Loss: Results of a Thirteen Patient		
1:20 – 1:40 pm	University of Pittsburgh	Cohort Study		
		Decellularized Allogeneic Neurovascular		
		Bundles for Reinnervation and		
		Revascularization in		
		Soft and Hard Tissue Reconstruction, the		
	Hilton Kaplan, MBBCh, FCSSA, PhD	Rehabilitation of Massive Scarring, and		
1:40 – 2:00 pm	Rutgers University	Engineered Tissues		
		Engineering a Clinically Relevant		
2.00 2.20 ~~	Jeff Ross, PhD Miromatrix Medical Inc	Transplantable Liver with Sustained In-Vivo		
2:00 – 2:20 pm	Miromatrix Medical Inc.	Perfusion		
	Karthikeyan Narayanan, PhD Institute of Bioengineering and	Decellularized Organs: Whole Organ		
2:20 – 2:40 pm	Nanotechnology, Singapore	Construction with Stem Cells		
2.20 – 2.40 pm	Ian L. Valerio, MD, MS, MBA	Application of Bioartificial Dermal		
	Ohio State University Wexner Medical	Regeneration Templates for Skin		
2:40 – 3:00 pm	Center	Restoration in Combat Casualty Injuries		
		Biomembrane from Porcine Cartilage		
		Extracellular Matrix Contributes		
		Enhancement of Efficacy of Microfracture		
	Byoung-Hyun Min, MD, PhD	for Cartilage Repair- Clinical Results		
3:00 – 3:20 pm	Ajou University Hospital	Followed up 1 Year Postoperatively		
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2.20 2.45	Brook			
<u>3:20 – 3:45 pm</u>	Break	Fairway Deck		
	•	nd Clinical Implications of the Immune		
Session VIII: Response Chair: C. James Kirkpatrick MD, PhD, DSc, FRCPath (Johannes Gutenberg Univer-				
Germany & University of Gothenburg, Sweden)				

		Collagen Matrix: Structure & Function -
	Kenneth Burhop, PhD	Translating to New Opportunities in
3:45 – 4:05 pm	Integra LifeSciences	Regenerative Medicine
	Inna Kornienko, MS	
	Moscow Institute of Physics and	Low-Immunogenic Matrix Suitable for
4:05 – 4:25 pm	Technology	Transplantation
		A Macrophage Centric Approach to the
	Bryan N. Brown, PhD	Evaluation of ECM Scaffolds for Tissue
4:25 – 4:50 pm	University of Pittsburgh	Reconstruction
	Stephen F. Badylak, DVM, PhD, MD	
4:50 – 5:00 pm	University of Pittsburgh	Closing Remarks & Adjourn