

## April 25, 2010 (Sunday)

6:00 - 8:00pm	Registration Reception	Silverado East Foyer Fairway Deck
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## April 26, 2010 (Monday)

7:00 - 8:00 am	Breakfast	Fairway Deck
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8:00 - 8:10 am	Steve Badylak	Welcome	Silverado East
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### KEYNOTE ADDRESS

8:10 - 8:55 am	Robert M. Nerem	Regenerative Medicine: Cells, the Matrix, and Unlocking the Future
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### SESSION I

SESSION CHAIR: Buddy Ratner

8:55 - 9:15 am	Dinakar Golla	Abdominal Wall Reconstruction Using Biologics: Advances in Treatment
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9:15 - 9:35 am	Kerry Daly	The Effect of the $\alpha$ Gal Epitope in the Host Response to ECM in a Nonhuman Primate Model
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9:35 - 9:55 am	Tracey Stokes	Clinical Experience of Matristem Products in Diverse Plastic and Reconstructive Surgery Applications
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9:55 - 10:25 am	Break	Fairway Deck
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### SESSION II

SESSION CHAIR: Robert Matheny

10:25 - 10:45 am	Bo Wang	Decellularized Porcine Myocardium as a Scaffold for Cardiac Regeneration
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10:45 - 11:05 am	Donald Freytes	Decellularized Heart and Bone as Scaffolds for Engineering Human Tissue Grafts
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11:05 - 11:25 am	Frantisek Straka	Novel Porous Collagen Scaffold for Heart Valve Tissue Engineering Under Static and Dynamic Cell Culture Conditions
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11:25 - 11:45 am	Geoff Gurtner	Optimizing Stem Cell Function During Wound Healing Using Soft Collagen Hydrogels and Microfluidic Cell Isolation
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11:45 - 1:15 pm	Lunch	Fairway Deck
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SESSION III  
SESSION CHAIR: Bob Nerem

1:15 - 1:35 pm	David J McQuillan	Extracellular Matrix-Directed Regeneration of Soft Tissues	
1:35 - 1:55 pm	Todd McAllister	Tissue Engineering by Self-Assembly: Novel Approaches to Building Robust Tissues Without an Exogenous Scaffold	
1:55 - 2:15 pm	Matt Kroh	Evolution of Biologic Platforms in General Surgery: Examination of Technique and Product	
2:15 - 2:35 pm	William J. Ennis	Limb Salvage Options with Collagen GAG Scaffolding	
2:35 - 3:00pm	Break		Fairway Deck

SESSION IV  
SESSION CHAIR: Dinakar Golla

3:00 - 3:20 pm	Reginald C.W. Bell	Routine Use of Allograft in Laparoscopic Hiatal Hernia Repair	
3:20 - 3:40 pm	Amelia M. Bartholomew	Activation of Mesenchymal Stem Cells for Optimal Stem Cell-Scaffold Synergy	
3:40 - 4:00 pm	Walid A. Farhat	Bladder Derived Acellular Matrix (ACM) Support the Survival and Multipotency of Marrow Derived Mesenchymal Stem Cells (BM-MS-C)	
4:00 - 4:20 pm	David L. Kaplan	Bioengineered Silk Proteins for Novel Biomaterials	
4:20 - 4:40 pm	Samantha Traphagen	Deconstructing and Reconstructing Molar Tooth Buds: Characterization and Repopulation of Decellularized, Whole Tooth Extracellular Matrices (ECMs)	
4:40 pm	Adjourn		
6:00 - 8:00 pm	Wine & Entertainment	Chandler Burr Special Guest, New York Times	Fairway Deck

## April 27, 2010 (Tuesday)

7:00 - 8:00 am	Breakfast		Fairway Deck
8:00 - 8:10 am	Steve Badylak	Welcome	Silverado East

### KEYNOTE ADDRESS

8:10 - 8:55 am	Jeffrey Hubbell	Morphogen and Material Engineering in Regenerative Medicine	
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### SESSION V SESSION CHAIR: Walid Farhat

8:55 - 9:15 am	Joseph Iannotti	Defining Rotator Cuff Healing	
9:15 - 9:35 am	Buddy Ratner	Scaffold-Mediated Macrophage Manipulation as a Mechanism to Modulate the Matrix for Healing and Regeneration	
9:35 - 9:55 am	Martin Anthony Birchall	New Breath: the Clinical Application of Stem Cells on Biologic Scaffolds to Treat Advanced Airway Disease	
9:55 - 10:25 am	Break		Fairway Deck

### SESSION VI SESSION CHAIR: Tom Gilbert

10:25 - 10:45 am	Kenneth S. James	Development, Characterization and Clinical Application of Processed Fetal and Neonatal Bovine Dermis	
10:45 - 11:05 am	Steve Badylak	Macrophage Phenotype: A Local Tissue Phenomenon and Predictor of Downstream Remodeling	
11:05 - 11:25 am	John Dichiara	Clinical Performance of a Type I Collagen Surgical Mesh Scaffold for the Reinforcement and Repair of Medial Meniscus Injuries	
11:25 - 11:45 am	Bryan Brown	Extracellular Matrix as an Inductive Template for Temporomandibular Joint Meniscus Reconstruction	
11:45 - 1:15 pm	Lunch		Fairway Deck

SESSION VII

SESSION CHAIR: David Kaplan

1:15 - 1:35 pm	Chet Xu	A Biologic Scaffold for the Controlled Release of Hepatocyte Growth Factor in a Rat Model of Vocal Fold Injury
1:35 - 1:55 pm	Thomas W. Gilbert	Decellularized Tracheal Grafts Support Epithelial Cell Growth and Differentiation
1:55 - 2:15 pm	Joan E. Nichols	Influence of Acellular Lung Matrix on Embryonic Stem Cell Differentiation Towards Lung Lineages: Production of a Better Matrix for Development of Tissue Engineered Lung
2:15 - 2:35 pm	Uwe Freudenberg	Modular Biohybrid Hydrogels for Cell Replacement Therapies of Neurodegenerative Diseases
2:35 - 3:00pm	Break	Fairway Deck

SESSION VIII

SESSION CHAIR: Steve Badylak

3:00 - 3:20 pm	Robert Matheny	Extracellular Matrix in Myocardial Regeneration
3:20 - 3:40 pm	Dan T. Simionescu	Reversible Stabilization of Biologic Scaffolds for Cardiovascular Tissue Engineering
3:40 - 4:00 pm	Anand Ramamurthi	Induced Elastic Matrix Regeneration in Healthy and Diseased Microenvironments
4:00 - 4:20 pm	Neill Turner	The Role of the Wound Environment in the Restoration of Functional Skeletal Muscle by ECM-Scaffolds
4:20 - 4:40 pm	Martin Anthony Birchall	Decorating Peptide-Based Hydrogel Scaffolds for Nerve-Cell Culture and Tissue Engineering
4:40 - 5:00 pm	Steve Badylak	Closing Remarks & Adjourn