

# Program

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*Thursday, February 14<sup>th</sup>, 2008*

**RECEPTION AND REGISTRATION FOR 5<sup>TH</sup> SYMPOSIUM**

**5:30-7:30 PM**

**Location:** The Falls Terrace

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*Friday, February 15<sup>th</sup>, 2008*

**7:00-8:00 AM**      *Continental Breakfast*

**Location:** West Courtyard

**SCIENTIFIC SESSION I**

**Location:** Salon A,B,E

**8:00-8:10 AM**      **Welcome and Introductory Remarks**

**Stephen F. Badylak**  
**Chairperson**

**8:10-8:45 AM**      **Keynote Speaker**  
**The Big Picture: Translating Ideas into Treatment**

**Richard Tarr**  
*InMotion Musculoskeletal Institute*

**8:45-10:00 AM**

**Session Chair: Robert Brown**  
*University College London*

8:45-9:10 AM      Functional Tissue Engineering of the Vocal Fold

Thomas W. Gilbert  
*University of Pittsburgh*

9:10-9:35 AM      A Bovine Acellular Scaffold for Vocal Fold  
Reconstruction In Vivo: Preliminary Data  
in a Rat Model

Chet Xu  
*UT Southwestern Medical Center*

9:35-10:00 AM      Recombinant Human Tropoelastin as a Scaffold  
for Tissue Reconstruction and Regeneration

Kenton Gregory  
*HemCon Medical Technologies,  
Incorporated*

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**10:00-10:20 AM**      *Break*

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## **SCIENTIFIC SESSION II**

**Location: Salon A,B,E**

**10:20 AM-NOON**

**Session Chair: Francois Auger**  
*Laval University*

10:20-10:45 AM	Tissue Regeneration by Decellularized Biological Scaffolds Prepared by Detergent-Free Treatment	Toshia Fujisato <i>Osaka Institute of Technology</i>
10:45-11:10 AM	Whole Organ Decellularization for Creation of a 3D Scaffold for Cell Seeding	John M. Wainwright <i>University of Pittsburgh</i>
11:10-11:35 AM	Decellularization of Human Myocardium and Characterization of the Resultant Scaffold	Timothy P. Martens <i>Columbia University</i>
11:35 AM-NOON	Percutaneous Bioprosthetic Valve Placement for Deep Vein Insufficiency: Long Term Results in 15 Patients	Dusan Pavcnik <i>Dotter Institute</i>

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**NOON-1:30 PM**

***Lunch***

**Location: West Courtyard**

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## **SCIENTIFIC SESSION III**

**Location: Salon A,B,E**

**1:30-2:45 PM**

**Session Chair: Thomas Gilbert**  
*University of Pittsburgh*

1:30-1:50 PM	Exogenous Growth Factors Enhance Bladder Wall Smooth Muscle Cell Ingrowth into Small Intestinal Submucosa	Rebecca Long <i>University of Pittsburgh</i>
1:50-2:10 PM	Hybrid Scaffold of Polymer Mesh and Plastic Compress Collagen Gel: A Step Towards Bladder Tissue Regeneration	Eva-Maria Engelhardt <i>Ecole Polytechnique Fédérale de Lausanne</i>
2:10-2:30 PM	Development and Characterization of an Acellular Porcine Bladder Matrix for Tissue Engineering	Jennifer Southgate <i>University of York</i>
2:30-2:50 PM	Degradation Products of Biologic Scaffolds Composed of Extracellular Matrix Induce Preferential Tissue-Specific Chemotaxis of Lineage-Directed Progenitor Cells	Ellen Brennan <i>University of Pittsburgh</i>

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**2:50-3:10 PM**

***Break***

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## **SCIENTIFIC SESSION IV**

**Location: Salon A,B,E**

**3:10-4:20 PM**

**Session Chair: Stephen F. Badylak**  
*University of Pittsburgh*

3:10-3:35 PM	Can Biodegradable Electrospun Scaffolds Give Rise to Natural Scaffolds within a Useful Time Frame?	Sheila MacNeil <i>The Kroto Research Institute</i>
3:35-4:00 PM	Mechanisms of Tissue Reconstruction with Biologic Scaffolds	Stephen F. Badylak <i>University of Pittsburgh</i>
4:00-4:25 PM	Extracellular Matrices in Orthopaedics	Carl Basamania <i>Triangle Orthopaedics</i>
4:25-4:50 PM	The Clinical Role of Xenogenic Biologic Scaffold Materials in Pelvic Floor Repair	Jim Ross <i>C. R. Bard Incorporated</i>
<b>4:50-5:00 PM</b>	<b>Closing Comments</b>	<b>Stephen F. Badylak</b>
<b>5:00 PM</b>	<i>Adjourn (Day 1)</i>	
<b>6:00- 8:00 PM</b>	<b>Reception</b>	<b>Location: Courtroom MN &amp; Veranda</b>

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## *Saturday, February 16<sup>th</sup>, 2008*

**7:00-8:00 AM**      *Continental Breakfast*

**Location: West Courtyard**

### **SCIENTIFIC SESSION V**

**Location: Salon A,B,E**

**8:00-8:05 AM**      **Introductory Remarks**

**Stephen F. Badylak**  
**Chairperson**

**8:05-8:40 AM**      **Keynote Speaker**  
**Proteins and Scaffolds Engineered to Direct Reconstruction and Regeneration**

**Buddy Ratner**  
*University of Washington*

**8:40-10:00 AM**

**Session Chair: Buddy Ratner**  
*University of Washington*

8:40-9:00 AM      Regenerative Tissue Matrix for Abdominal Wall Repair and Breast Reconstruction: Long-term Outcomes with AlloDerm®, and Early Clinical Experience with a New Xenogeneic Matrix, Strattice™      Scot B. Glasberg  
*Cosmetic and Reconstructive Plastic Surgery*

9:00-9:20 AM      A Non-proteolytic Method for Producing and Customizing Cell-free Bioscaffolds In-vitro      Susan Braunhut  
*University of Massachusetts*

9:20-9:40 AM      Regenerative Medicine: Different Approaches to Therapy Using Matrices With or Without Cells      Anthony Atala  
*Wake Forest University*

9:40-10:00 AM      Ventral Hernia: The Next Challenge for Biologics      Dinakar Golla  
*University of Pittsburgh*

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**10:00-10:20 AM**      *Break*

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### **SCIENTIFIC SESSION VI**

**Location: Salon A,B,E**

**10:20-NOON**

**Session Chair: Stephen F. Badylak**  
*University of Pittsburgh*

10:20-10:45 AM      Immune Response Observed when Bladder Acellular Matrix Grafts are Used for Urinary Bladder Substitution      Walid Farhat  
*University of Toronto*

10:45-11:10 AM      Mechanism of Rejection in Orthopaedic Xenografts      Thomas Turek  
*CrossCart, Incorporated*

11:10-11:35 AM      Biologic Scaffold Remodeling and Macrophage Response in a Rat Model      Bryan Brown  
*University of Pittsburgh*

11:35-NOON      Effectively Stabilized and Sterilized Collagen Scaffolds for Regeneration and Repair of Soft Tissue      Thomas Sander  
*Pegasus Biologics Incorporated*

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**NOON- 1:30 PM**

*Lunch*

**Location: West Courtyard**

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**SCIENTIFIC SESSION VII**

**Location: Salon A,B,E**

**1:30-2:45 PM**

**Session Chair: Anthony Atala**  
*Wake Forest University*

1:30-1:55 PM	Biologic Effects of ECM Bioscaffolds for Ligament And Tendon Healing and Regeneration	Savio Woo <i>University of Pittsburgh</i>
1:55-2:20 PM	In Vitro Regeneration of Tendon like Tissue by Physical Stimulation	Eileen Ingham <i>University of Leeds</i>
2:20-2:45 PM	Host Cell Response to Hyaluronan Treated Fascia Extracellular Matrix	LiKang Chin <i>Cleveland Clinic</i>

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**2:45-3:05 PM**

*Break*

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**SCIENTIFIC SESSION VIII**

**Location: Salon A,B,E**

**3:05-4:20 PM**

**Session Chair: Kenton Gregory**  
*HemCon Medical Technologies, Inc*

3:05-3:30 PM	Tissue Engineering: From Bench to Bedside	Wei Liu <i>Shanghai Jiao Tong University</i>
3:30-3:55 PM	A Regenerative Medical Approach to Repair Esophageal Tissue with ECM Scaffolds	Alex Nieponice <i>University of Pittsburgh</i>
3:55-4:20 PM	Role of Biological Scaffolds in the Self-Assembly Approach: Focus on Mechanical Material Properties	François A. Auger <i>Laval University</i>
4:20-4:45 PM	Rapid, Biomimetic Fabrication of Collagen Tissue with Meso-Scale Structure	Robert Brown <i>University College London</i>
<b>4:50-5:00 PM</b>	<b>Closing Comments for Sessions V-VIII</b>	<b>Stephen F. Badylak</b> <i>University of Pittsburgh</i>
<b>5:00 PM</b>	<i>Adjourn (Day 2)</i>	