



- 10:00a - 11:20p**      **Session II:    *Mechanobiology, Feather, Tissue Construct, Cell Movement***  
*Moderators: Roger De Filippo, Saban Research Institute, James Dunn, UCLA*
- 10:00a - 10:15a      *Mechanobiology:*  
**Rate-Dependent Mechanical Properties of Fibrin Biomaterial Scaffolds.**  
E. Freeman From Bill Tawil & Mike Shaw's LAB  
Dept. of Bioengineering, *California Lutheran University*
- 10:15a - 10:40a      *Cell Movement:*  
**Measurements of Cellular Force Generation and Movement.**  
Kevin Burton  
Dept. of Surgery, *Cedars-Sinai Medical Center*
- 10:40a - 10:55a      *Tissue Construct:*  
**Use of Avian Embryos as a Source of Surrogate Circulation for Cell and Tissue Constructs**  
D. Talavera From Rocio Honigmann's LAB  
Dept. Plastic Surgery Research Laboratory, *Cedars-Sinai Medical Center*
- 10:55a - 11:20a      *Engineering Feather?*  
**How to Make a Feather?**  
Cheng-Ming Chuong  
Department of Pathology, *USC*
- 11:20a - 11:35a      *Gene Transfer*  
**Specifying Cell Fate Through Gene Transfer**  
Dwain Morris-Irvin  
*Cedars-Sinai Medical Center*

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**11:45p - 12:45p**      **Lunch (provided)**

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**11:30p - 12:30p**      **LATEI Committee Meeting (by invitation only)**

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12:45p - 2:05p	<p><b><u>Session III:</u> Bone Regeneration, Urology, Imaging, Vascular, Stem Cells</b></p> <p><i>Moderators: Rocio Honigmann, Cedars-Sinai Medical Center &amp; Mike Shaw, CLU</i></p>
12:45p - 1:00p	<p><i>Bone Regeneration:</i></p> <p><b>Nell-1, a Novel Molecule for Bone Regeneration</b></p> <p>K. Cowan From Ben Wu's LAB Dept. of Materials Science and Engineering &amp; and Biomedical Engineering, <i>UCLA</i></p>
1:00p - 1:25p	<p><i>Urology:</i></p> <p><b>Experimental and Clinical Experience with Stem Cell and Tissue Engineering - Techniques for Urinary Incontinence.</b></p> <p>Chester J. Koh Division of Pediatric Urology, Children's Hospital Los Angeles, <i>USC</i></p>
1:25p - 1:40p	<p><i>Imaging:</i></p> <p><b>Nanomaterials for Imaging and Therapeutic.</b></p> <p>A. Liu From Ching-An Peng's Lab Dept. of Chemical Engineering &amp; Materials Science, <i>USC</i></p>
1:40p - 2:05p	<p><i>Industry Corner:</i></p> <p><b>Vascular Tissue Engineering.</b></p> <p>David Chung <i>Philogenesis</i></p>
<hr/> <b>2:05p - 2:20p</b> <hr/>	<b>Coffee Break</b> <hr/>

2:20p - 3:40p

**Session IV: Cornea, Kidney, Stem Cell, Imaging**

*Moderators: Ivan Vesely, Children's Hospital  
& Ben Wu, UCLA*

2:20p - 2:35p

*Cornea Tissue Engineering:*

**Designing a Tissue-Engineered Corneal Model.**

L. Wray From Elizabeth Orwin's LAB

**Harvy Mudd College**

2:35p - 3:00p

*Kidney Tissue Engineering:*

**Stem Cells Injection into an Embryonic Kidney Environment: the Future of Renal in Vitro Regeneration.**

L. Perin From Roger De Filippo's LAB

Division of Urology, Children's Hospital Los Angeles, Saban Research Institute, Keck School of Medicine, USC

3:00p - 3:15p

*Cornea Tissue Engineering:*

**Monitoring the Phenotype of Corneal Keratocytes in a Tissue Engineered Corneal Model.**

J. Shoffeitt From Elizabeth Orwin's LAB

**Harvy Mudd College**

3:15p - 3:40p

*Imaging:*

**Multimode Optical Imaging for Tissue Anatomy, Physiology and Engineering.**

S. Wachsmann-Hogiu From Daniel Farkas's LAB

Dept. of Surgery, Minimally Invasive Surgical Technologies Institute  
*Cedars-Sinai Medical Center*

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3:40p -

**Closing Remarks and Reception**

Dan Farkas, *Cedars-Sinai Medical Center*

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