



- 10:15a - 11:25p     **Session II: Muscle, Nano, Imaging, Bone**  
*Moderators:*  
Abigail Corrin, *California Lutheran University*
- 10:15a - 10:30a     *Smooth Muscle Tissue Engineering:*  
**Basic Fibroblast Growth Factor Delivery Enhances Intestinal Smooth Muscle Tissue Engineering.**  
Min Lee From James Dunn's Lab  
Dept. of Bioengineering, *University Of California, Los Angeles*
- 10:30a - 10:55a     *Nanopulse Energy:*  
*Sponsored by IEEE - Engineering in Medicine and Biology Society*  
**Biomolecular Manipulations With Nanosecond Pulsed Electric Fields - In Cells and In Silico**  
P. Thomas Vernier  
Information Sciences Institute, *Alfred Mann Institute, University of Southern California*
- 10:55a - 11:10a     *Imaging:*  
**Differential Nuclear Methylation Imaging for Tissue Engineering**  
Jian Tajbakhsh From Dan Farkas's Lab  
Minimally Invasive Surgical Technologies Institute,  
*Cedars-Sinai Medical Center*
- 10:10a - 11:25a     *Bone Tissue Engineering:*  
**Synergistic Effects of Nell-1 and BMP-2 on the Osteogenic Differentiation of Myoblasts**  
Catherine M Cowan From Ben Wu's Lab  
Dept. of Bioengineering, *University Of California, Los Angeles*

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11:30p - 12:30p     Lunch (provided)

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

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**12: 45p – 1:00p**      **Special Guest**  
**The Demise of Scientific Truth**  
Howard Winet  
Dept. Of Orthopedics, *University Of California, Los Angeles*

**1:00p - 2:10p** **Session III:**  
*Moderators:*    **Signaling, Stem Cells, Imaging, Polymers**  
James Dunn, *University Of California, Los Angeles*

1:00p - 1:15p      Signaling:  
**Intercellular Contact Inhibits Proliferation by Regulating Intracellular Signals**  
Nicholas Graham From Dr. Anand Asthagiri's Lab  
Division of Chemistry and Chemical Engineering, *California Institute of Technology*

1:15p - 1:40p      Industry Corner - Stem cells  
*Sponsored by IEEE - Engineering in Medicine and Biology Society*  
**Hematopoietic Stem Cell Transplantation (HSCT) Using Plasma Depleted Umbilical Cord Blood (UCB) that Were not Red Cell Depleted.**  
Robert Chow  
Stemcyte, Inc.

1:40p – 1:55p      Imaging:  
**Immunogold Labeling and Optical Coherence Microscopy Imaging for Assessing Cell Phenotype in Engineered Conrea Tissue**  
Emily Hogan From Liz Orwin's Lab  
Dept. of Engineering and Biology, *Harvy Mudd College*

1:55p – 2:10p      Polymers in Tissue Engineering:  
**Novel Synthetic Copolyptide Hydrogels and Their Potential Tissue Engineering Applications.**  
Jennifer Yang From Tim Deming's Lab  
Dept. of Bioengineering, *University Of California, Los Angeles*

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**2:10p - 2:30p**      **Coffee Break**

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- 2:30p - 3:45p**      **Session IV: Bladder, Industry, Renal, Valve, Polymers**  
*Moderators:*  
Alissa Doerfler, *Fziomed*
- 2:30p - 2:45p      *Bladder Tissue Engineering:*  
**Development of a functional Tissue Engineered Bladder Replacement with Adipose Stem Cells and an Elastomeric Biodegradable Scaffold**  
Joanne C. Leung From Ben Wu's Lab  
Dept. of Bioengineering, *University Of California, Los Angeles*
- 2:45p - 3:00p      *Industry Corner:*  
**Development of a Cell Delivery System for Traumatic Brain Injury Using Novel Matrices and Human Bone Marrow Stem Cells**  
Madineh Sarvestani  
BioStar West
- 3:00p - 3:15p      *Renal Tissue Engineering:*  
**In vivo application of Amniotic Fluid Stem Cells (AFSC) for Renal Tissue Regeneration**  
Sargis Sedrakyan From Roger De Filippo's Lab  
Saban Research Institute, *University of Southern California*
- 3:15p - 3:30p      *Valve Tissue Engineering:*  
**Important Role of Selection of Appropriate Cell Phenotype, Addition of ECM Protein and Mechanical Stimuli on Mechanical Properties of Tissue Engineered Mitral Valve Chordae.**  
Ram Iyer From Ivan Vesely's Lab  
The Saban Research Institute of *Childrens Hospital Los Angeles*
- 3:30p - 3:45p      *Polymers:*  
**Effect of Polyglycolic Acid and Poly-ε-caprolactone Biopolymers on Intestinal Neo-Mucosal Growth and Morphology**  
Vatche Agopian From M Stelzner's Lab  
Department of Surgery, *University Of California, Los Angeles*

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**3:45p -**                      **Closing Remarks and Reception**  
Ben Wu, *University Of California, Los Angeles*

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