

Institute for BioNanotechnology in Medicine (IBNAM)

<http://www.ibnam.northwestern.edu/>

2007 Retreat

Regenerative Scaffold Technologies for CNS and Diabetes

NIH Bioengineering Research Partnership

Meeting Location

Baldwin Auditorium

Lobby of R. H. Lurie Building (North side)

303 E. Superior, Chicago

May 25, 2007

12:00 LUNCH & INITIAL POSTER REVIEW (outside auditorium)

1:00 WELCOME **S. Stupp**

1:10 POSTER INTRODUCTION*

1:10 *Protein Polymer-Based Contrast Agents for MRI of Tissue Engineering Scaffolds* **Lindsay Karfeld, Steve Bull, Wei Huang, Nicolynn Davis, Thomas Meade** (A. Barron, PI)

1:15 *Engineering Gene Delivery Vectors Using Peptides and Protein Polymers* **J. Rea** (A. Barron, PI)

1:20 *Engineering Enzymatically Crosslinked Protein Polymer Hydrogels for Beta Islet Encapsulation* **Nicolynn Davis, Sheng Ding, Lindsay Karfeld**, (A. Barron, PI)

1:25 *Tissue Engineering Scaffolds for Extrahepatic Islet Transplantation* **David Salvay, Christopher Rives** (L. Shea, PI)

1:30 *Multiple Channel Bridges Releasing Bioactive Factors and DNA to Promote Spinal Cord Regeneration* **Laura De Laporte, Yang Yang, Marina Zelivyanskaya¹, Aileen Anderson** (L. Shea, PI)

1:35 *Improving Islet Function by Encapsulation in Hydrogels Presenting Anti-Apoptotic Peptides* **Jing Su, Bi-Huang Hu, Warren Sands** (P. Messersmith, PI)

1:40 *Improving Islet Transplantation: the Versatility of Tissue Transglutaminase* **Carrie Brubaker** (P. Messersmith, PI)

1:45 *Prolonged Islet Graft Survival as a Result of Using Anti-lymphocyte Serum in Conjunction with in vivo Bioluminescence Imaging* **Courtney Larson** (D. Kaufman, PI)

1:50 *Comparison of Epididymal Fat Pad and Submucosal Space with Liver as Islet Transplant Sites in a Murine Model* **Hermann Kissler** (D. Kaufman, PI)

1:55 *Self-assembling Bioactive Materials for Diabetes Treatment, Stem Cell Differentiation, and Spinal Cord Injury Repair* **Ramille Capito, Lesley Chow, Eugene Pashuck** (S. Stupp, PI)

2:00 *Transplantation of Endothelial Cells on Microporous Scaffolds* **Herman Blomeier, Fei Chen, Chris Rives, Elizabeth Hughes, Marsha Newman** (W. Lowe & L. Shea, PIs)

2:05 POSTER REVIEW (outside auditorium)

2:45 DISCUSSION

