Center for Regenerative Medicine
and Cell Based Therapies (CRMCBT)
1st Operations Committee Meeting Minutes (Draft)

April 27, 2012
BRT 130, 4:00 to 6:00

Center director Chandan Sen opened the meeting and gave update on the center’s progress to date and upcoming initiatives (see attached CRMCBT Opts Cmt Meeting Chandan Sen 042712). Slides are posted in Center website.

Michael Bills from Fisher gave a perspective of how the College of Business can be integrated into CRMCBT and support commercialization of outcomes of the center.

Representing Randy Moses of Engineering, Richard Hart discussed an overview of the College of Engineering and specifically the Bio-Engineering department, as it relates to current and potential work in regenerative medicine.

Herb Bresler of Battelle reviewed the company’s areas of expertise: Medical Device Development (Concept Through Clinical Prototype, Detailed Problem Solving), Cell-Based Therapy Manufacturing Systems (System Design, Development and Testing, including Biological and Engineering) and GLP and non-GLP Studies (Wound Healing Models, Infectious Disease Models, Toxicity, Safety & Efficacy). Battelle looks forward to identifying areas for collaboration.

Alicia Bertone presented the strengths of the College of Veterinary Medicine and what they can contribute as leaders in regenerative medicine. Bertone highlighted collaborations and future goals as: Preclinical Studies and Animal Models, BioRepository and BioSpecimen cryopreservation for stem cell animal models (Feline stem cells for renal disease, Islet cell differentiation from feline stem cells, Chondrogenesis from equine fetal stem cells).

Binnaz Leblebicioglu represented the College of Dentistry with a presentation covering the current research occurring in dentistry applicable to regenerative medicine, identified multiple areas of interdisciplinary program building (Micro-CT, 3D Cone Beam Technology, Animal models to study critical size defects, Clinical trials related to periodontal/peri-implant regeneration, Access to facial birth defects/ trauma cases). She identified areas for translational regenerative medicine outcomes.

Peter March presented an overview on the College of Arts and Sciences after the merger of five legacy colleges in 2010. Arts and Sciences present a vast amount of faculty, staff and students with direct ties to regenerative medicine, including 20+ Centers/Institutes. Reg Med potential include: Advanced Computing Center for Arts and Design, Center for Applied Plant Sciences, Center for Emergent Materials, Center for Ethics and Human Values, Center for Human Resources Research, Center for RNA Biology, Mathematical Biosciences Institute.
Jianjie Ma discussed his experience/background and addition to the university. He explained details of his company start-up and the possibilities of protein therapies. Ma sees great potential with the College of Vet Medicine and Battelle.

Jodi C. McDaniel’s of the College of Nursing gave an overview of the colleges commitment to innovation and the tie overs to regenerative medicine. The CON faculty actively engages in research with faculty in other colleges in addition to other universities and clinical facilities to solve common health problems. Potential collaboration exists in Health-risk assessment/health-risk reduction, Women’s and infant health, Symptom biology and management and Decision-making processes.

Larry Moss discussed opportunities existing in a lot of areas with Children’s Hospital, including congenital abnormalities. He discussed the recruitment of Chris Breuer from Yale and his work with vascular engineering of blood vessels.

Lynn O'Donnell gave overview of the Cell Therapy Laboratory, regenerative medicine clinical trials activity, Pre-Clinical & Translational Development Activity and discussed some operations and logistics barriers to supporting the Center.

Vincent Pompili reviewed current research applicable to regenerative medicine and the center and an OSU Partnership with Arteriocyte Inc. Unique strengths include: Successful CV animal core facility for pre-IND animal studies for clinical trials in CLI, BMT, and acute MI, Successful partnership in 5 awarded phase I and phase II SBIR/STTR grants in past 5 years and Collaborative partnership with Industry and clinical investigators.

Jed Johnson, Chief Technology Officer for Nanofiber Solutions was a guest speaker. He explained the start-up of Nanofiber Solutions out of OSU and played a video showing the stem cell seeding of the companies “first in human” trachea. (Video file not supported in the attached slides due to size) Johnson discussed collaboration areas with the center.

James Lee of the Engineering provided an overview of the Center for Affordable Nanoengineering of Polymeric Biomedical Devices, which he directs. Within his talk he covered his labs ability with Nanochannel Electroporation (NEP) for Gene Transfection, Biodegradable Cell Based Drug Delivery Devices and Construction of 3D Multiple Cell-Scaffold Complex.

Ichiro Nakano of the OSU College of Medicine was a Guest Speaker and discussed Therapeutic Development for Brain Tumors. He covered cancer stem cell theory and how he can established Cancer Stem Cell lines from Glioma/Glioblastomam, Breast Cancers and Prostate Cancers.

Chandan Sen gave a brief discussion about the Pilot Funding Opportunities. Tracks tentatively to include: Pelotonia Regenerative Medicine Track, Akron Functional Material Center Track, Program Project Track, RFA Response Track, Industry Partnership Track, Publications and Productivity Track (Conference Travel Awards or Core Fee Support), Inter-College Partnership Track, and CCTS Track. In the coming weeks the tracks will be sent to committee members for approval and/or comment.

Respectfully submitted,

Brent Toto
Administrative Director
Center for Regenerative Medicine and Cell Based Therapies
Agenda

Center for Regenerative Medicine and Cell Based Therapies
Operations Committee Meeting

April 27, 2012
BRT 130, 4:00 to 6:00

4:00pm Opening by Chandan Sen
4:15pm Start College and Guest presentations
  Michael Bills Committee Member
  Richard Hart Committee Member
  Herb Bresler Committee Member
  Alicia Bertone Committee Member
  Binnaz Leblebicioglu Representing Dentistry
  Peter March Committee Member
  Jianjie Ma Committee Member
  Jodi C. McDaniel Committee Member
  Larry Moss Committee Member
  Lynn O'Donnell Committee Member
  Vincent Pompili Committee Member
  Jim Lee Committee Member
  Jed Johnson Nanofiber Solutions Guest Speaker
  Ichiro Nakano OSU COM Guest Speaker

5:15pm Discussion
5:30pm Pilot Funding Opportunities Discussion
  1. Pelotonia Track
  2. AFMC Track
  3. Program Project Track
  4. RFA Track
  5. Industry Partners Track
  6. Publications and Productivity Track (Conference Travel Awards)
  7. Inter-College Partnership Track
  8. CCTS Track
  9. Other Suggestions

5:55pm Closing remarks by Chandan Sen

6:00pm Meeting adjourned
Operations Committee Members
Alicia Bertone Committee Member
Cynthia Carnes Committee Member
Michael Bills Committee Member
Herb Bresler Committee Member
Avner Friedman Committee Member
Gayle Gordillo Committee Member
Denis C. Guttridge Committee Member
Richard Hart Committee Member
Brian Kaspar Committee Member
Michael Knopp Committee Member
Rob Lee Committee Member
James Lee Committee Member
Jianjie Ma Committee Member
Peter March Committee Member
Jodi C. McDaniel Committee Member
Michael Miller Committee Member
Peter Mohler Committee Member
Randy Moses Committee Co-Chair, Committee Member
Larry Moss Committee Member
Lynn O'Donnell Committee Member
Vincent Pompili Committee Member
John Sheridan Committee Member
Chandan Sen Committee Chair, Committee Member
Peter Shields Committee Member
Vish Subramaniam Committee Member

Guests for 4/27/12 meeting
Jed Johnson Nanofiber Solutions Guest Speaker
Ichiro Nakano Medicine Guest Speaker
Gustavo Leone Medicine Guest
Sashwati Roy Medicine Guest
Diane Spires Dentistry Guest