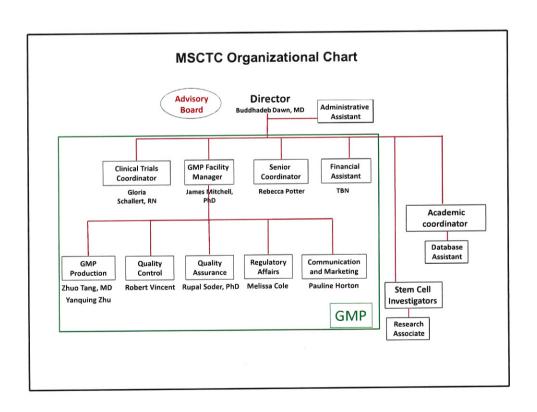
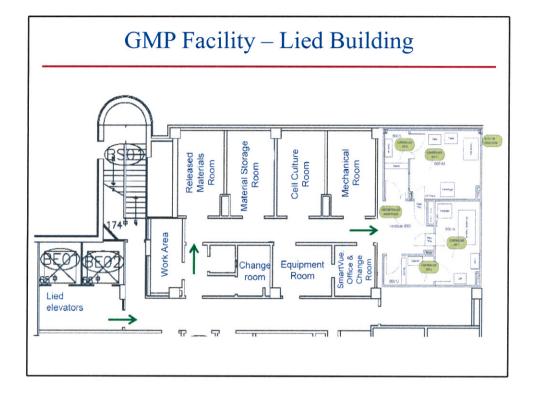


# Objectives of the Center - I

- To advance adult, cord blood and related stem cell research and therapies for patient treatment
- To serve as a core facility to produce clinical grade stem cells
- To initiate clinical trials with adult, cord blood, and related stem cells



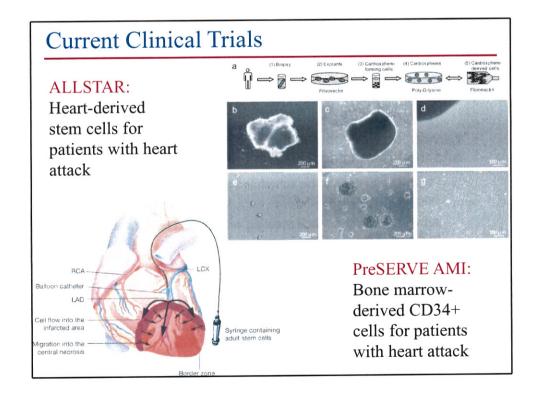


## Key FDA Related Items

- · GMP facility is now registered with the FDA
- Developed FDA contacts in both Washington, D.C. and the FDA District Office in Lenexa, KS
  - Pre-IND meetings to be scheduled for GvHD and Aplastic Anemia in Washington, D.C.
  - Agreed to a face-to-face meeting with District Office staff prior to first IND submission
- Pre-clinical submission template developed
  - Can customize for use in all pre-clinical efforts
  - Is the basis for an electronic IND submission

# Focus Areas for Adult Stem Cell Therapy

- Stroke and Neurodegenerative diseases
- Cancer and immunotherapy
- Cardiac and vascular
- Musculoskeletal, trauma, skin, burn, wounds, autoimmune diseases



## **Current Preclinical Projects**

#### Graft vs. Host Disease (GvHD)

- Collaboration with University of Kansas Cancer Center
- Cells available for animal efficacy study
- IND template developed and details identified
- Scale-up to be initiated

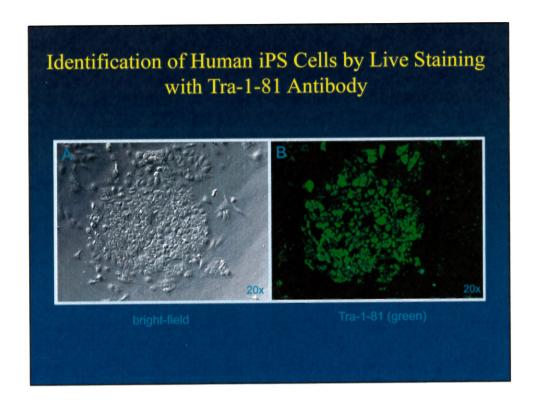
## **Preclinical Projects**

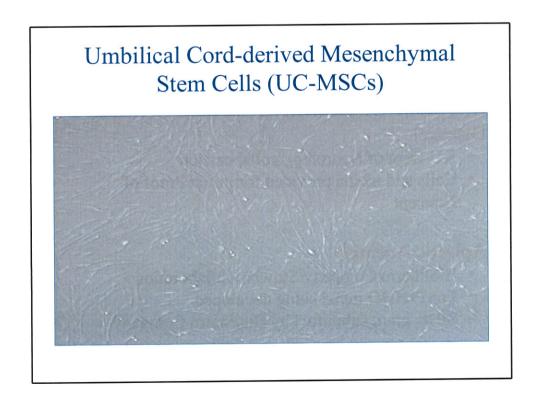
# Amyotrophic Lateral Sclerosis (Lou Gerhig's Disease)

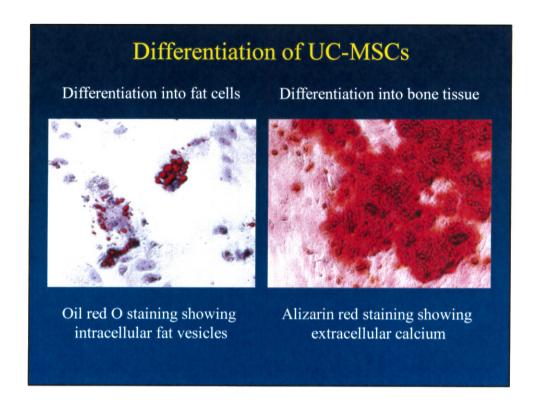
- KU Dept of Neurology collaboration
- Cells and media provided for initial Proof of Concept

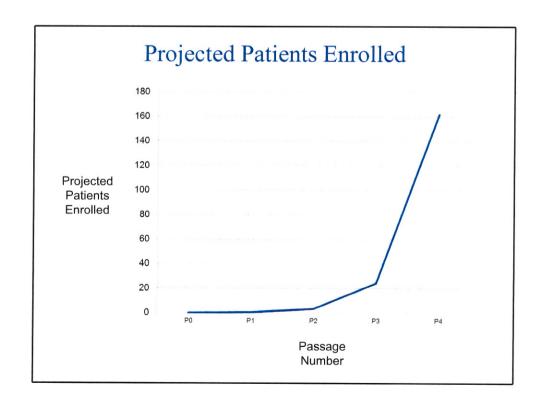
#### Aplastic Anemia

- BioPharm Company/Stowers collaboration
- Pre-PreIND items being developed
- SBIR grant submitted by BioPharm Company









## Objectives of the Center - II

- Informing the public on available adult, cord blood, and related stem cell therapeutic options
- Creating and maintaining a database of available stem cell clinical trials and therapies
- Foster a regional network of physicians trained in adult stem cell therapy

### Dissemination of Information

- Website (<u>www.kumc.edu/msctc</u>)
- Compilation of an extensive resource for adult stem cell information
- Dedicated personnel support
- Providing answers via emails/meetings
- Conferences

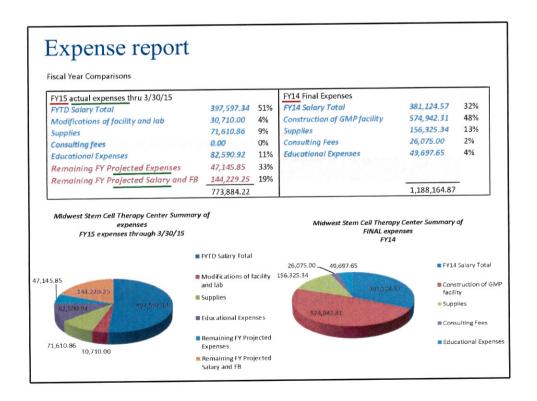


# Funding

- FY14 budgeted amount \$1,154,500
- FY15 budgeted amount \$754,500
- FY16 budgeted amount \$735,238
- FY15 operational revenues: \$29,416
- FY15 Philanthropic donations: approx. \$52,000
- Federal grant funding in the future

## Major Support from KUMC

- Funds toward initial GMP construction, personnel salary and benefits
- Space and other key infrastructure support
- Administrative support
- Research Institute
- Abundance of collaborators
- Brand recognition for marketing



#### **MSCTC Vision for Growth**

- Advance cutting-edge adult stem cell therapy
  - multi-center trials
  - Recruit eminent investigators
  - Expand MSCTC clinical trial workforce
- Producing patient-specific adult stem cells locally and also generating new business
  - by expanding the GMP facility
- Enable cellular engineering and innovation
  - state-of-the-art instrumentation and technique
- Advance basic stem cell research
  - Recruit excellent basic stem cell scientists

THANK YOU