PACT Products / Capabilities*

Progenitor Cells

- c-kit⁺ cells (cardiac/renal)
- Endothelial cells
- Hematopoietic stem cells (HSC)
 - Aldehyde dehydrogenase-bright cells
 - Bone Marrow (BM)
 - Peripheral Blood (PB)
 - Umbilical placental/cord blood (UCB)
- Hepatic stem cells
- Human embryonic stem cells (hESC, NIH-approved cell lines)
- Induced pluripotent stem cells (iPSC)
- Mesenchymal stem cells (MSC) (BM, Umbilical cord blood/tissue)
- Neural stem cells
- Skeletal myoblasts
- T cells UCB-derived

Antigen Presenting Cells / Dendritic Cells / Tumor Vaccines

- Antigen-presenting cells
 - Dendritic cells/Monocytes
 - K562 genetically modified
 - Pepmix-pulsed activated T cells
 - Dendritic cells
 - Adenovirally transduced
 - Apoptotic tumor cell pulsed
 - Transfected
 - Tumor lysate pulsed
 - Tumor-dendritic cell hybrids
- Large multivalent immunogen (LMI) vaccine (allogeneic)
 - Breast adenocarcinoma
 - Melanoma

Lymphocytes

- EBV-transformed B cell lines (LCLs)
- PB-derived
 - Activated NK cells
 - CD4+/CD25+ T regulatory cells
 - TGFβ-induced T regulatory cells
 - T cells virus specific
 - Adenovirus
 - BK virus
 - Cytomegalovirus
 - EBV
 - EBV-LMP-directed
 - HIV
 - HHV-6
 - Vaccinia
 - Varicella zoster (VZV)
- Thymidine kinase (suicide gene)-transduced T cells
- Tumor-infiltrating lymphocytes (TILs)
- UCB-derived CD4+/CD25+ T regulatory cells



Genetically Modified Cells

- Activated T cells
- CAR-T cells / CAR-VSTs
- Cytotoxic T Lymphocytes (TGFβ, CAR)
- Dendritic cells
- Fibroblasts
- HSC
- Neural stem cells
- Tumor cells/vaccines

Master / Working Cell Banks

- B95-8 EBV
- Fibroblasts
- hESC (NIH-approved cell lines)
- iPSC
- MSC
- Neural stem cells
- NK cell lines

Services

- Alloreactive T cell depleted (immunotoxin)
- Aseptic filling
- Biochemical, ELISA, Western blot analysis
- Cell culture isolation, expansion, and cryopreservation technologies
- Cell Depletion / Cell Enrichment (BM/PB/UCB)
 - CD3/CD19 depletion
 - CD14 selection
 - CD34 selection
 - CD56 selection
 - TCR-alpha/beta depletion
- Cell manufacturing for large animal models
- Counterflow elutriation
- Cytokine capture technology
- Estimation of product telomere length and activities
- Extraction of biomarkers and gene expression
- Immune monitoring
- Immuno histofluorescence
- Pancreatic islet cell production
- Plasmid production
- Potency assay development
- Tumor digestion

*List is not inclusive

11/2017

PACT Cell Processing Facilities

Center for Cell and Gene Therapy, Baylor College of Medicine Center for Biomedicine and Genetics, City of Hope

Interdisciplinary Stem Cell Institute Cellular Manufacturing Program,
University of Miami,
Millor School of Modicine

Miller School of Medicine

University of Minnesota, Molecular and Cellular Therapeutics

Moffitt Cancer Center

The Emmes Corporation - Coordinating Center

