HIMC BIOBANK

Population Health Sciences

October 26, 2015

Rohit Gupta
Director, HIMC Biobank
Human Immune Monitoring Center
Institute for Immunology, Transplantation, and Infectious Disease
Stanford School of Medicine
Member, International Society for Biological & Environmental Repositories (ISBER)
HIMC Biobank Overview

- **Services**
  - Study Design & Planning
  - Blood & Tissue Processing
  - Cryopreservation & Cataloging

- **Solutions**
  - Standardized protocols
  - Optimized logistics
  - Complete Systems Integrations
  - Scalable and flexible operation

- **Reach & Capacity**
  - Stanford Investigators across all disciplines: registry and trial design
  - Multi-site national and international trials
  - Currently we have over 100,000 samples banked across multiple studies
  - Receive over 1500 research subject samples per year

Plotting all samples and all cell subsets together illustrates the high (correlation) between two PBMC isolation methods.
HIMC Biobank Focus

- **Scientific**
  - Approach to Study Design
  - Protocols & Methodology
  - Reproducibility & Proficiency

- **Data-driven**
  - Big Data Platform: HIMC:GATEWAY
    - Rohit Gupta, Holden Maecker, Julia Simard, Mark Davis, Kari Nadeau, Irv Weissman, PJ Utz, Ken Mahaffey, Ash Alizadeh
  - Web-based data collection
  - REDCap directly connected to Biobank

HIMC:GATEWAY: A centralized portal, showcasing multi-disciplinary clinical and translational research studies that utilize HIMC’s state-of-the-art immune monitoring technologies.