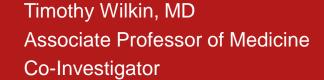
Faculty Management of Complex, Federally Funded, Clinical Research Projects

Douglas F. Nixon, MD, PhD
Professor of Immunology in Medicine
Principal Investigator

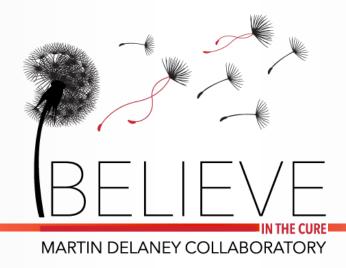
Robert L. Furler, PhD Assistant Professor of Immunology in Medicine UM1 Program Manager





NIH UM1 Grant Overview





Bench to bed Enhanced Lymphocyte Infusions to Engineer Viral Eradication

Bench to Bed Enhanced Lymphocyte Infusions to Engineer Viral Eradication



Goal: To enhance and improve immune responses to HIV, targeting antibodies, innate and adaptive cells as therapies; combine with other agents; and to target to sites where latent virus resides: Enhanced immunotherapy to HIV



Why should you BELIEVE?

Questions: Can we make an individual's immune system work better?

Could an improved immune system eradicate the virus?

Progress: Our first clinical safety trial started enrolling in Spring

2019. We will expand an individual's white blood cells that

attack parts of HIV that do not mutate.

Meaning: This personalized medicine uses an individual's own

immune cells to fight HIV. Generalized approaches are also

underway.

Bench to Bed Enhanced Lymphocyte Infusions to Engineer Viral Eradication



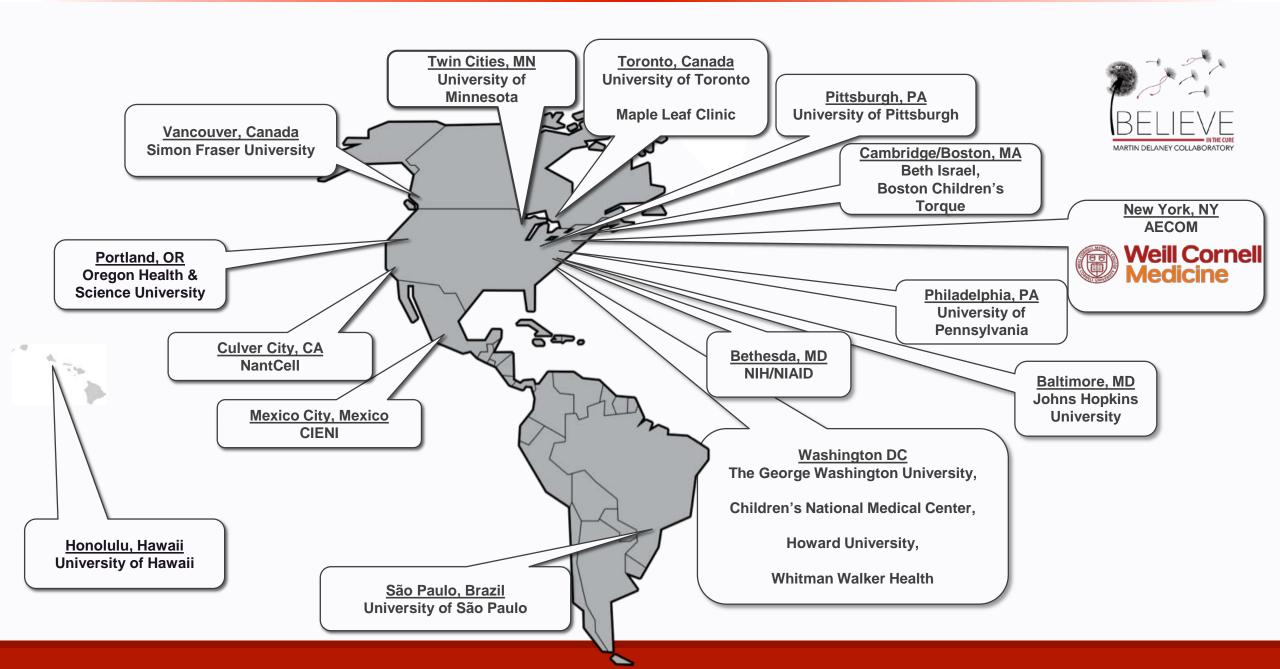
NIAID UM1 Martin Delaney Collaboratory (Al126617; 7/14/2016-6/30/2021)

NIAID Program & Medical Officers: Eric Refsland, (Lillian Kuo), Tony Conley & Larry Fox

PI: Douglas Nixon (and soon R. Brad Jones as co-PI)

Program Manager: Robert Furler

Investigators: Edward Berger, Catherine Bollard, Alberto Bosque, Mark Brockman, Zabrina Brumme, Amanda Castel, Elizabeth Connick, C. Russell Cruz, Harris Goldstein, Alan Greenberg, David Hardy, Brad Jones, Esper Kallas, Princy Kumar, Rebecca Lynch, Manya Magnus, Sergei Nekhai, Ulrik Nielsen, Douglas Nixon, Una O'Doherty, Mario Ostrowski, Deborah Persaud, Gustavo Reyes-Teran, Gary Simon, Pam Skinner, Thomas Smithgall, James Whitney, Jeffrey Safrit & Peter Rhodes





Pediatrics







Industry Partners







Community Engagement & CAB







International Collaborators



















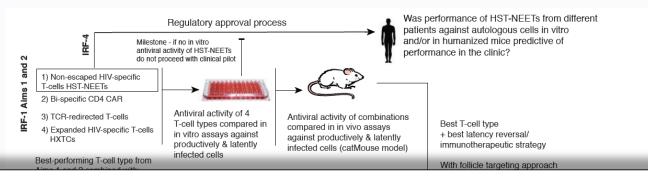
Who We Are



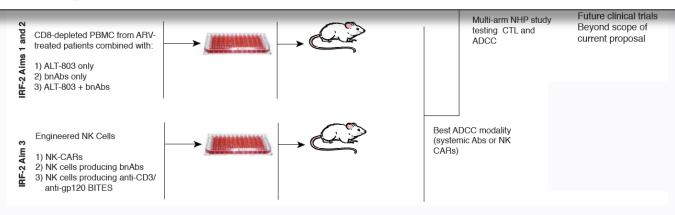




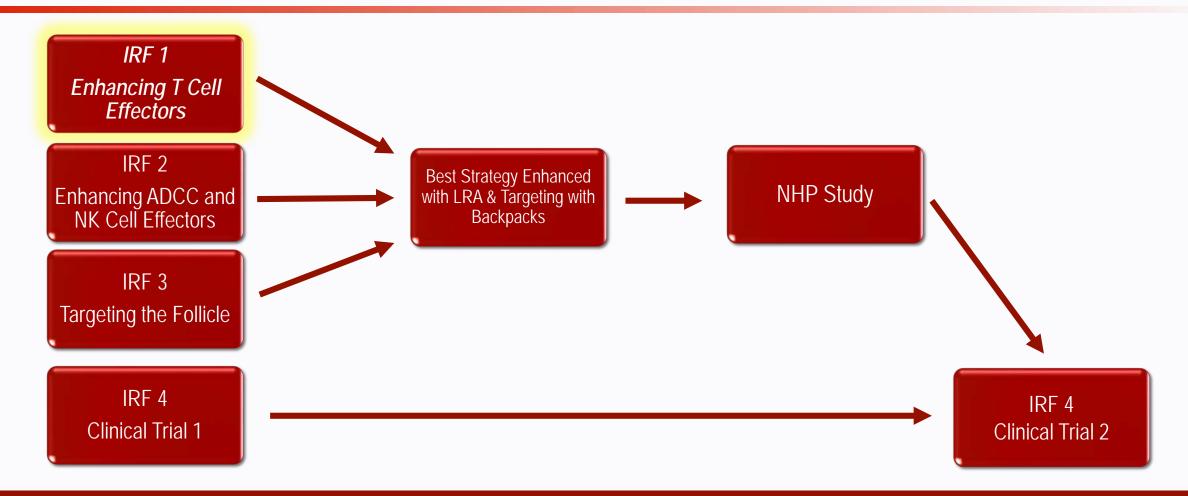
Scientific Strategy



The UM1 is designed to be **dynamic** - constantly evolving to address the **highest priority science**









IRF 1 Enhancing T Cell Effectors

IRF 2 Enhancing ADCC and NK Cell Effectors

IRF 3 Targeting the Follicle

> IRF 4 Clinical Trial 1





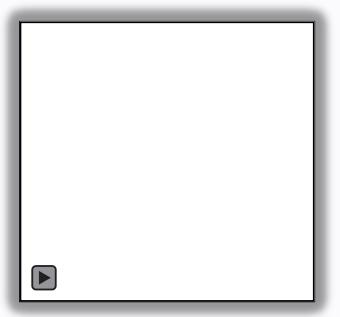




Weill Cornell Medicine



THE GEORGE WASHINGTON UNIVERSITY WASHINGTON, DC



IRF 1











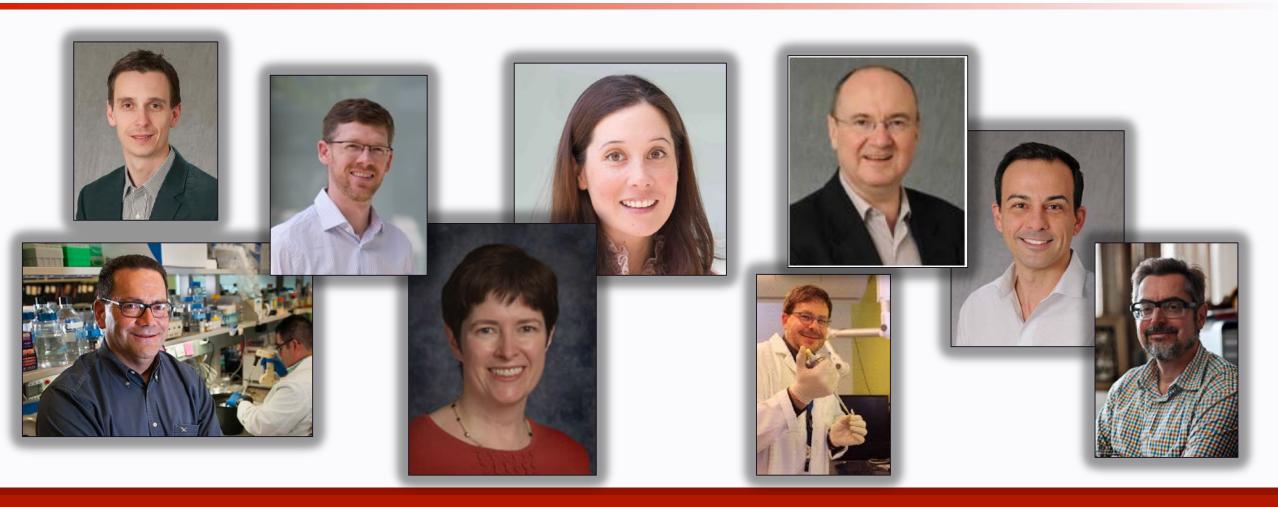




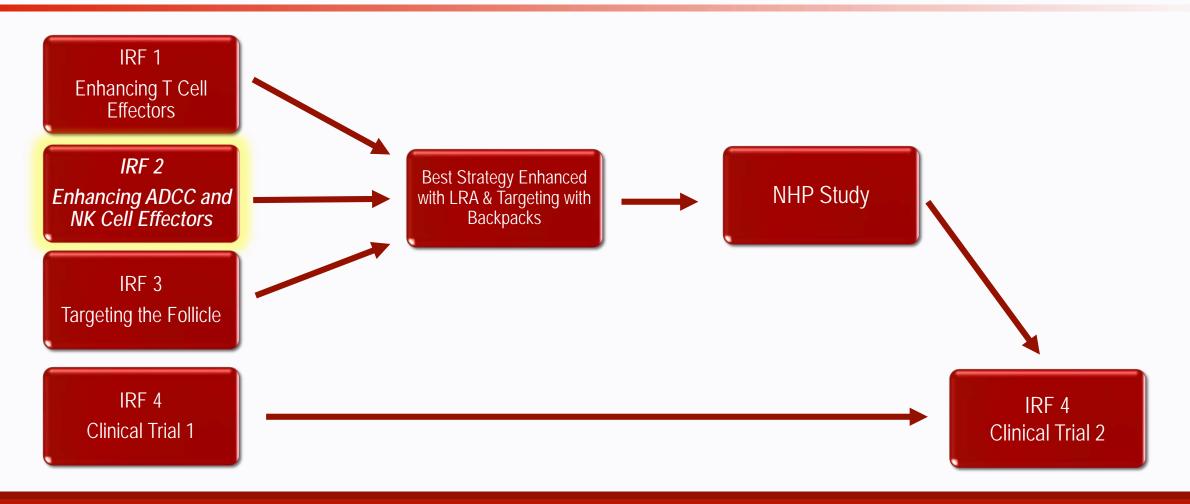




University of Pittsburgh









IRF 1
Enhancing T Cell
Effectors

IRF 2
Enhancing ADCC and
NK Cell Effectors

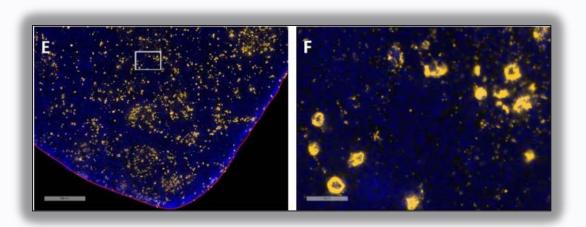
IRF 3
Targeting the Follicle

IRF 4 Clinical Trial 1











OF YESHIVA UNIVERSITY

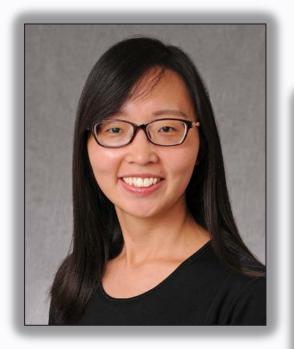












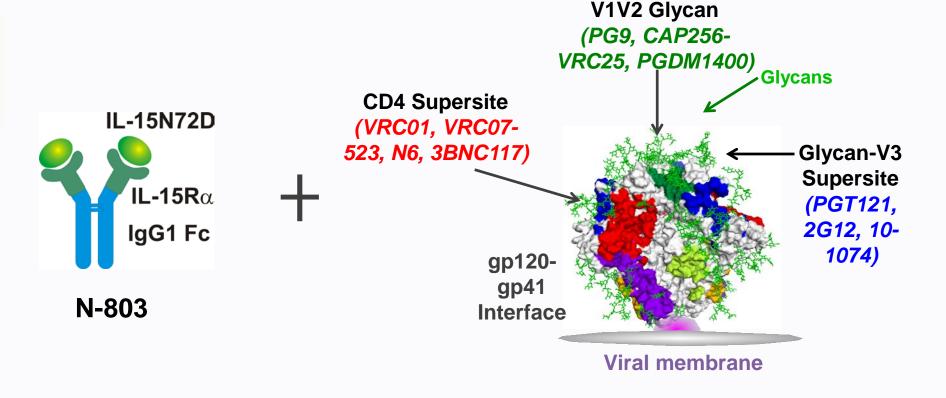


ACTG Clinical Trial & NHP Study Development N-803 + bnAbs

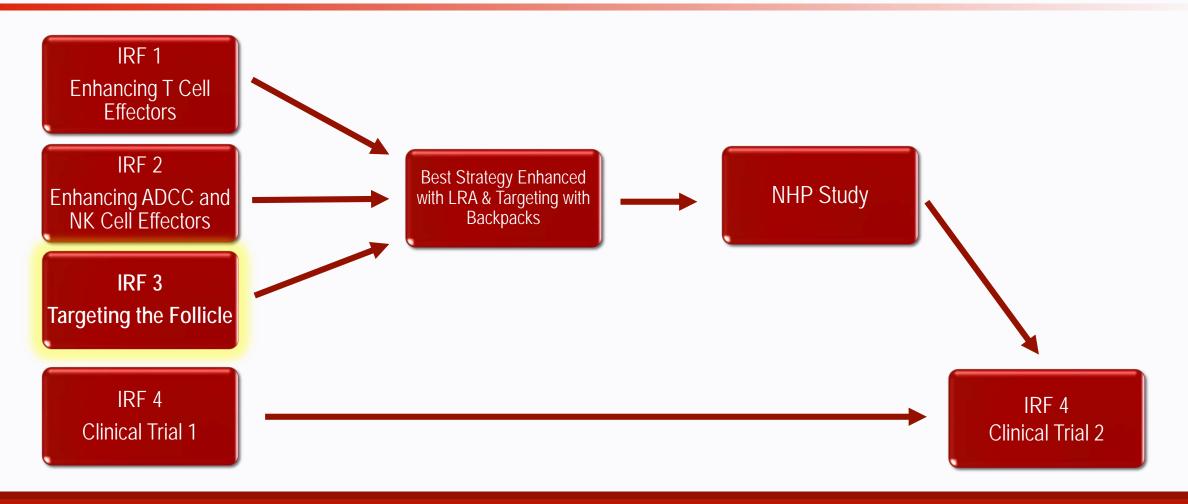




Enhancing ADCC and NK Cell Effectors









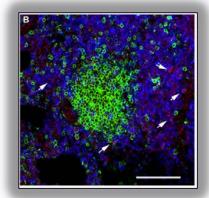
IRF 1
Enhancing T Cell
Effectors

IRF 2
Enhancing ADCC and
NK Cell Effectors

IRF 3
Targeting the Follicle

IRF 4 Clinical Trial 1







IRF 3























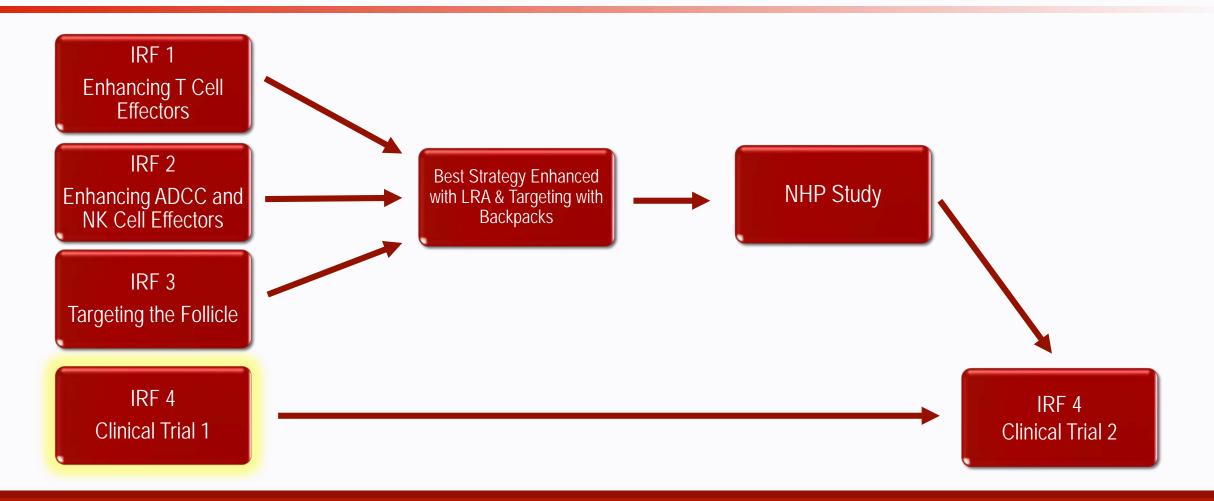








Enhanced Targeted Cell Therapy





IRF 1
Enhancing T Cell
Effectors

IRF 2
Enhancing ADCC and
NK Cell Effectors

IRF 3
Targeting the Follicle

IRF 4 Clinical Trial 1



























Phase I Safety Trial for HST-NEETs

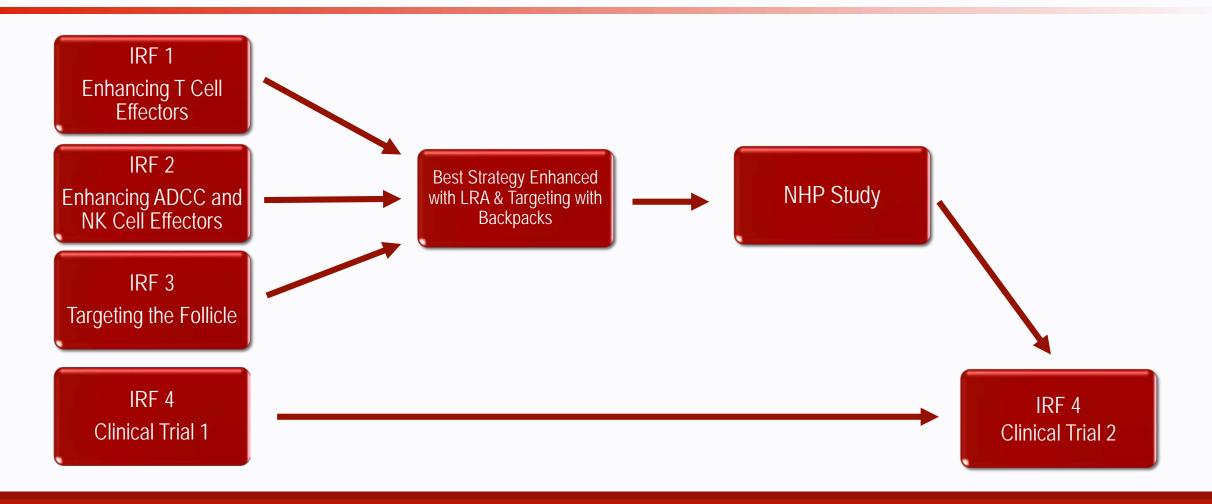
Spring 2019 Enrollment

A Phase I Study to Evaluate the Safety, Immunologic, and Virologic Responses of HIV-Specific T-cells with non-escaped epitope targeting (HST-NEETs) as a Therapeutic Strategy in HIV-Infected Individuals on Antiretroviral Therapy During Acute and Chronic Infection

RESIST A Phase I Study to Evaluate the Safety, Immunologic, and Virologic RESponses of HIV-Specific T-cells with non-escaped epitope targeting (HST-NEETs) as a Therapeutic Strategy in HIV-Infected Individuals on Antiretroviral Therapy During Acute And Chronic Infection (RESIST) PERFORMANCE SITE PRINCIPAL INVESTIGATORS Michael Keller, MD (CNMC) Gary Simon, MD, PhD (GWU) CHILDREN'S NATIONAL (CNMC) SUB-INVESTIGATORS Conrad Russell Cruz, MD, PhD Patrick Hanley, PhD Lauren McLaughlin, MD Blachy Davila Saldana, MD Fahmida Hoq, MBBS, MS GEORGE WASHINGTON UNIVERSITY HOSPITAL (GWU) SUB-INVESTIGATORS David Parenti, MD Afsoon Roberts, MD Marc Siegel, MD Aimee Desrosier, MS, PA Brad Jones, PhD Douglas Nixon, MD, PhD Kieron Dunleavy, MD PERFORMANCE SITES Program for Cell Enhancement and Technologies for Immunotherapy (CETI) Children's National Medical Center Center for Cancer and Blood Disorders 111 Michigan Avenue, NW Washington, DC 20010 (202) 476-5000 2150 Pennsylvania Avenue, NW Washington, DC 20037 Version: 2.0, date 10/4/2017



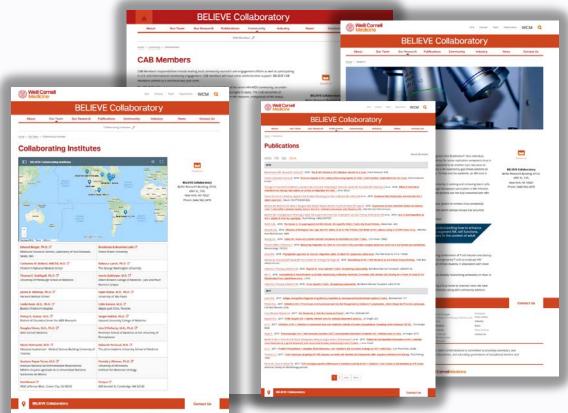
Enhanced Targeted Cell Therapy



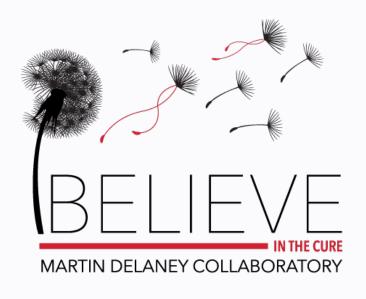


Website





http://believe.weill.cornell.edu















Planning for complex submissions



- *How far out do you start thinking about the submission? -(Recompetition)
- *How far out do you begin preparing the submission?
- *How do you engage collaborators within the college, and at other institutions?
- *How can research administration work with you to make your application as successful as possible.
- *Scientific Editing

Resources



- *What resources do you look to for support?
- *How do you use them?
- *Cores?
- *CTSC services?
- *Data Management Services (ITS)?
- *Do you use any services provided by our Ithaca Campus?
- *Do you use any Qatar resources?

Staffing



- *Do you have a non-academic staffing model?
- *How do you know how many administrative staff, coordinators, etc. you will need to hire for a complex project?
- *Administrative space & clarification for administrative duties between grant admin & institutional admin
- *Institutional large grant committee (PIs + Program Managers)

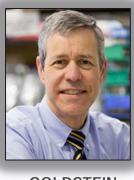
Leadership & Management

Executive Committee















NIXON

JONES

BOLLARD

GOLDSTEIN

SKINNER

WHITNEY

REFSLAND

Management & Operations



FURLER











What are some best practices for the administrative and strategic management of complex projects?



- *How often do you meet with collaborators?
- *Do you meet via conference calls or in person?
- *What do you discuss in the meetings?

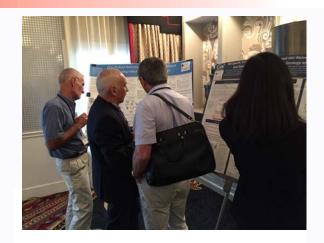


Communication

MEETINGS

- Monthly Executive Committee Meetings
- Monthly Scientific Working Group Meetings
 - IRF 1 Enhancing T Cells
 - IRF 2 Enhancing NK Cells
 - IRF 3 Localization
 - IIRF 4 Clinical Trials
 - CAR T Optimization Working Group
 - Nef Inhibitor Working Group

- Monthly Community Advisory Board Meetings
- Monthly NIH Individual Management Team
- •Quarterly Steering Committee Meetings
- Quarterly Collaboratory Meetings
- Annual Meeting
- Individual Site Visits







*How do you decide if a collaborator is meeting expectations?

*What do you do if they aren't meeting expectations?

*How to mitigate conflict?

*How do you develop meaningful relationships with collaborators?

*How do you leverage collaborators to build a successful scientific and administrative proposal?

Using Grant Mechanism to Promote Career Growth for Members



How have departmental and central research administration personnel contributed to your success?



Financial Management and Compliance Oversight







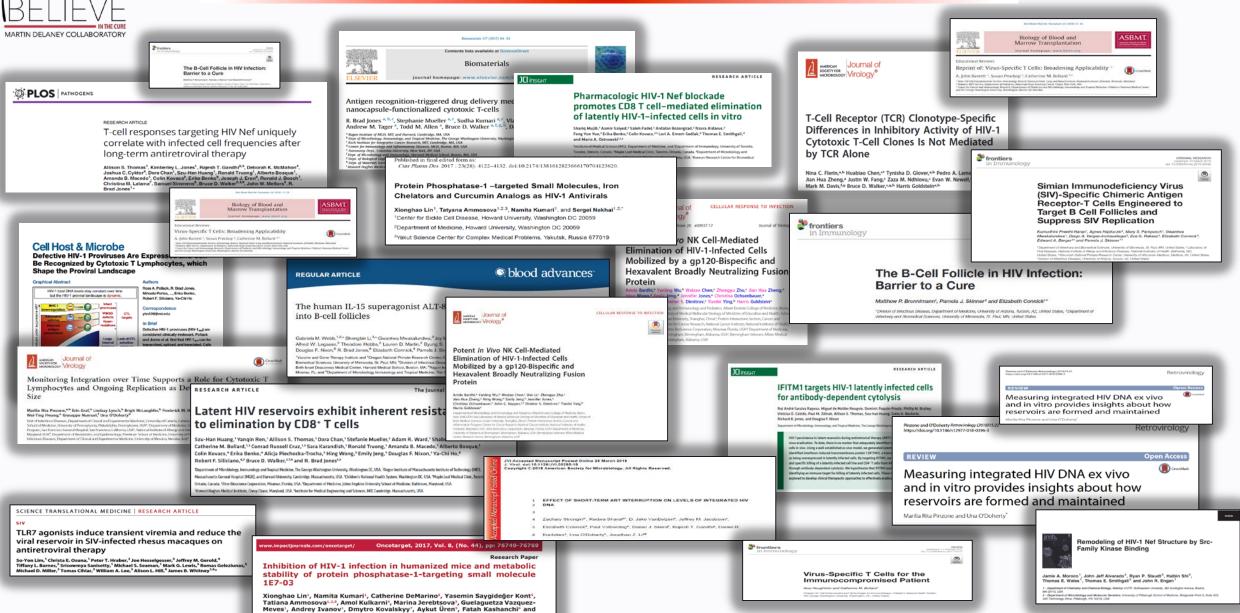
- Mariela Flambury, Assistant Director of Research Business Management
- Omarys Herasme, Grant Portfolio Manager, Research Business Management
- Stephen Hunt, Associate Director, Research Operations

Scientific Impact





Publications from Years 1 & 2



Year 3 Publications



*What is the impact of your science?

*How has it progressed over time?

*How has your program management developed over time?

*Key factors that have contributed to your success?

Key lessons learned throughout your careers about successfully applying for and managing Complex, Federally Funded, Clinical Research Programs?



