**Day 1: December 7, 2022**

5:00-7:00 PM  **Opening Reception**

Lola Eniola-Adefeso, PhD  | University of Michigan
“Diverse Perspectives in Immune Engineering”

**Day 2: December 8, 2022**

8:00 AM  **Breakfast**

9:00 AM  **Opening Remarks**

9:05 AM  **Session 1: Regenerative medicine I**

Kam Leong, PhD  | Columbia University
“Cell-free DNA scavengers to modulate immune cell behavior”

Katherine Gallagher, MD  | University of Michigan
“Epigenetic control of immune cell behavior in chronic wound healing”

Megan Ballinger, PhD  | The Ohio State University
“Macrophage-fibroblast interactions in pulmonary fibrosis”

10:35 AM  **Break**

10:55 AM  **Session 2: Regenerative medicine II**

Andres Garcia, PhD  | Georgia Tech
“Synthetic Hydrogels for Islet Immune Acceptance to Treat Type 1 Diabetes”

Kara Spiller, PhD  | Drexel University
“Biomaterial-mediated macrophage cell therapy for regenerative medicine”

Erika Moore, PhD  | University of Florida
“Biomaterials to direct the B cell response”

12:25 PM  **Lunch Break**

2:00 PM  **Session 3: Nanomedicine**

Lola Eniola-Adefeso, PhD  | University of Michigan
“Polymeric microparticle decoys targeting vascular inflammation”

Aaron Esser-Kahn, PhD  | University of Chicago
“Pathogen-like nanoassemblies to enhance immunity”

Yizhou Dong, PhD  | Icahn School of Medicine at Mount Sinai
“Lipid nanoparticles for mRNA therapeutics, cancer immunotherapy, and cell therapy”
3:30 PM Coffee Break

3:50 PM Session 4: Tolerogenic therapies for autoimmune disease

Jessica Weaver, PhD | Arizona State University
“Placenta-inspired approaches to engineering immune cell tolerance”

Taku Kambayashi, MD, PhD | University of Pennsylvania
“The role of T cells in skin barrier function and obesity”

Evan Scott, PhD | Northwestern University
“Engineering the Bio/Nano Interface for Cell-Selective Nanotherapy”

5:15-7:30 PM Poster Session and cocktail reception
Day 3 December 9, 2022

8:00 AM  Breakfast

9:00 AM  Opening Remarks

9:05 AM  **Session 5: Cancer immunotherapy**

John Maris, MD  |  Children’s Hospital of Philadelphia  
“Targeting the immunopeptidome in pediatric neuroblastoma”

Pierluigi Porcu, MD  |  Thomas Jefferson University  
“Allogeneic transplantation for the treatment of lymphoid malignancies”

Gabriele Romano, PhD  |  Drexel University  
“Chemokine-based approaches to treat immunologically “cold” tumors”

10:35 AM  Coffee Break

10:55 AM  **Session 6: Immune engineering in Cell & Gene Therapy**

Xiao Huang, PhD  |  Drexel University  
“Control and Enhance Therapeutic T cells with Precision Bioengineering”

Klaudia Kuranda, PhD  |  Spark Therapeutics  
“Combating the immune response to gene therapy vectors”

Eric Kmiec, PhD  |  Gene Editing Institute  
“Gene editing in vivo to treat leukemia”

12:25 PM  Lunch Break

2:00 PM  **Session 7: Infectious diseases and vaccines**

Rafick-Pierre Sekaly, PhD  |  Emory University  
“Convergent mechanisms for the development of immune based interventions for HIV and Cancer”

Ana Jaklenec, PhD  |  Massachusetts Institute of Technology  
“Vaccine design for global health”

Michael Nonnemacher, PhD  |  Drexel University  
“Immunopathogenesis and neuropathogenesis of HIV”

3:30 PM  Coffee Break

3:50 PM  **Session 8: Talks by Trainee Awardees**

5:00 PM  Concluding Remarks