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
“Immunomodulatory biomaterials in transplant tolerance and regenerative medicine”

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 | Ohio State University
“Biomimetic nanoparticles to enhance T cell mediated cancer immunotherapy”
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
“Nanotherapeutic immune modulation to enhance allogeneic islet transplantation”

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
“The tumor-stroma immunological axis in minimal residual disease”

10:35 AM  Coffee Break

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

Tejal Desai, PhD  |  University of California, San Francisco
“DNA scaffolds to prime the immune response to CAR T cell therapy”

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
“Mechanisms of immune dysfunction in chronically HIV-1-infected patients”

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