

Proposed Symposium Agenda
Updated April 8, 2021

Day 1: December 8, 2021

5:00-7:00pm Reception

Day 2: December 9, 2021

8:00 Check-in + Breakfast

8:55 Opening Remarks

9:00-10:00 Session I: Immunoregulation of Cancer

- **David J. Mooney, PhD** – *Biomaterials-enabled chemo-immunotherapy* (Professor of Bioengineering, [Wyss Institute](#)) (confirmed)
- **Wayne Hancock, MBSS, PhD** – *Immune regulation of tumors, injury, and transplant rejection* (Chief of Transplantation Immunology, [Children's Hospital of Philadelphia](#)) (confirmed)
- **Sara Meyer, PhD** – *Non-coding RNA regulation in leukemia* (Assistant Professor of Cancer Biology and Medical Oncology, [Thomas Jefferson Univ.](#)) (confirmed)

10:20-10:40 Break

10:40-11:40 Session II: Cell Manufacturing and Delivery

- **Bruce Levine, PhD** – *Immune cell manufacturing* (Professor of Cancer Gene Therapy, [Univ. of Pennsylvania](#)) (confirmed)
- **Suzie Pun, PhD** - *Traceless aptamer-mediated isolation of CD8+ T cells for chimeric antigen receptor T-cell therapy* (Professor of Bioengineering, [Univ. of Washington](#)) (confirmed)
- **Beverly L. Davidson, PhD** – *Cell and gene therapy* (Co-founder of Spark Therapeutics; Chief Scientific Strategy Officer, [Children's Hospital of Philadelphia](#)) (tentative)

11:40-12:00 Panel Discussion

12:00-1:30 Lunch + Networking

1:30-2:30 Session III: Nanomedicine for immune cell control I

- **Vladimir Muzykantov, PhD** - *Erythrocyte-based delivery system for immunotherapy* (Professor of Pharmacology, [Univ. of Pennsylvania](#)) (confirmed)
- **Willem Mulder, PhD** – *Clinical translation of nanomaterial immunotherapeutics* (Professor of Biomedical Engineering, [Eindhoven University of Technology](#)) (confirmed)
- **Jamie Spangler, PhD** – *Engineering synthetic antibodies* (Assistant Professor of Chemical and Biomolecular Engineering, [Johns Hopkins](#)) (confirmed)

2:30-2:50 Panel Discussion

2:50-3:10 Coffee Break

3:10-4:30 Session IV: Nanomedicine for immune cell control II

- **Liangfang Zhang, PhD** - *Cellular Nanosponges Inhibit SARS-CoV-2 Infectivity* (Associate Professor of Nanoengineering, [UCSD](#)) (confirmed)
- **Nichole Daringer, PhD** – *Synthetic engineering for immune therapy* (Assistant Professor of Bioengineering, [Rowan Univ.](#)) (confirmed)

- **Takashi Kei Kishimoto, PhD** – *Tolerogenic nanoparticles* (CSO, [Selecta Biosciences](#)) (confirmed)
- **Kandace Gollomp, MD** – *Synthetic antibodies for the treatment of sepsis* (Attending Physician, Hematology, [Children's Hospital of Philadelphia](#)) (tentative)

4:30-4:50 Panel Discussion

5-7 Poster Session and Reception

Day 3: December 10 2021

8:00 Check-in + Breakfast

8:55 Opening Remarks

9:00-10:00 Session V: Infectious Diseases and Vaccines

- **Gregg Duncan, PhD** - *Synthetic mucin biomaterials for the study and treatment of infectious disease* (Assistant Professor of Bioengineering, [Univ. of Maryland](#)) (confirmed)
- **Peter Gaskill, PhD** – *Effects of drug use on HIV infection of macrophages* (Assistant Professor of Pharmacology, [Drexel University](#)) (confirmed)
- **Ebony Gary, PhD** - *DNA vaccines for Covid-19* (Wistar Institute) (confirmed)

10:20-10:40 Break

10:40-11:40 Session VI: Personalized medicine in immune engineering

- **Brian Aguado, PhD** – *Engineering biomaterials to treat disease based on sex, age, and/or ancestry* (Assistant Professor of Biomedical Engineering, [UCSD](#)) (confirmed)
- **John Bethea, PhD** – *Sex differences in neuroimmune modulation of chronic pain* (Professor of Biology, [Drexel University](#)) (confirmed)
- **David W. Andrews, MD** – *Personalized immunotherapy for the treatment of glioblastoma* (Founder and CMO of [Imvax, Inc.](#)) (tentative)

11:40-12:00 Panel Discussion

12:00-1:30 Lunch + Networking

1:30-2:30 Session VII: Immune regulation of tissue repair

- **De'Broski R. Herbert, PhD** – *Cellular context dictates response to helminth infection and injury* (Associate Professor of Pathobiology, [Univ. of Pennsylvania](#)) (confirmed)
- **Tatiana Segura, PhD** - *Biomaterials that modulate innate-adaptive immune crosstalk in wound healing* (Professor of Biomedical Engineering, [Duke](#)) (confirmed)
- **Hong Wang, MD, PhD** – *Immune regulation in cardiovascular injury and disease* (Professor of Microbiology and Immunology, [Temple School of Medicine](#)) (confirmed)

2:30-2:50 Panel Discussion

2:50-3:10 Coffee Break

3:10-4:10 Session VIII: Engineering systems for fundamental understanding

- **Daniel Hammer, PhD** – *Tools for understanding the migration of immune cells* (Professor, [Univ. of Pennsylvania](#)) (confirmed)
- **Rebecca Pompano, PhD** – *Ex vivo models to study lymph node function* (Assistant Professor of Chemistry, [University of Virginia](#)) (confirmed)
- **Ankur Singh, PhD** – *Organoids and on-chip models of immune organs* (Associate Professor of Biomedical Engineering, [Georgia Tech](#)) (confirmed)

4:10-4:30 Panel Discussion

4:30-4:45 Concluding Remarks