Tentative Symposium Agenda
Updated June 15, 2021

Day 1: 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)
- **TBD**

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) (confirmed)

4:30-4:50 **Panel Discussion**

5-7 **Poster Session and Reception**

Day 2: 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)
- **TBD**

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**