

Johns Hopkins Translational  
Immunoengineering Inaugural Symposium 2025  
March 4, 2025  
8:00 am – 1 pm  
Chevy Chase Auditorium

7:45 am - 8:10 am

**Check-In & Breakfast**

8:10 am - 8:15 am

**Introductions**

**Professor Jonathan P. Schneck, MD, Ph.D., Co-PI, JH-TIE**

8:15 am - 8:30 am

**Introduction to JH-TIE**

**Herschel L. Seder Professor Jordan J. Green, Ph.D., Co-PI, JH-TIE**

8:30 am - 9:15 am

**Keynote Speaker:**

Vax-Innate: Improving therapeutic cancer vaccines by modulating T Cells and the Tumour microenvironment

**Robert Seder, MD. Chief, Cellular Immunology Section, Vaccine Research Center, National Institute of Allergy and Infectious Disease, NIH**

9:15 am – 9:30 am

**Research Talk TR&D1**

Using nanoparticles as artificial antigen presenting cells to activate human CD4 T cells for immunotherapy

**Si-Sim Kang, M.S.**

Ph.D. Candidate, Schneck Lab

9:30 am – 9:45 am

**Research Talk TR&D2**

Machine learning elucidates design features and accelerates the development of lipid nanoparticles for cell type-preferential transfection

**Leonardo Cheng, B.S.**

Ph.D. Candidate, Mao & Green Lab

9:45 am – 10:00 am

**Break**

10:00 am – 10:15 am

**Immunology Engineering Education through JH-TIE**

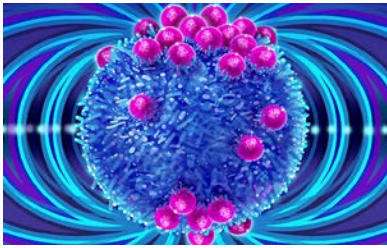
Joel Sunshine, M.D., Ph.D., Assistant Professor, Dermatology, Pathology, Oncology, and Biomedical Engineering

10:15 am – 10:30 am

**Research Talk TR&D3**

Cytokine-antibody single-chain fusions for immunotherapy of cancer and autoimmune diseases

**Jakub Tomala Ph.D., Assistant Research Professor, Whiting School of Engineering (WSE)**



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**Keynote Speaker:**

Antigen sensitivity, logic gating, and persistence of CAR T cells.  
Improving Adoptive Cell Therapy

**Michel Sadelain, MD**

**Inaugural Director of the Columbia Initiative in Cell  
Engineering and Therapy Antigen Sensitivity at Memorial  
Sloan Kettering Cancer Center**

11:15 am – 11:45 am

**Roundtable Discussion on Commercialization**

**Moderators: Stephany Tzeng, Ph.D. & Drew M. Pardoll, M.D.,  
Ph.D.**

**Panelists: Scott Carmer** (Biotech Consultant), **Ben Larman**  
(Associate Professor JHMI), **Kris Sachsenmeier** (Compass  
Therapeutics) **and Matt Tremblay** (Blackbird labs)

12:00 pm – 1:00 pm

**Poster Display & Lunch**

Sponsored by JH-TIE, an NIBIB funded NCBIB, National Center for Biomedical Imaging  
and Bioengineering, and supported by the JHU Provost's office, JHUSOM, Department of  
Biomedical Engineering, and Department of Pathology