

CFI-Mayo Joint Retreat

Scientific Program

Monday, October 14th, 2019

7:30 – 10:00 – Arrival and check-in (coffee and snacks available)

10:00 – 10:30 – Opening remarks, **Marc Jenkins** (CFI-UMN) and **Daniel Billadeau** (Mayo Clinic)

10:30 – 11:45 – **Scientific Session 1**

Chairs: Adam Burrack (CFI-UMN), Bryce Manso (Mayo Clinic Rochester)

10:30 – 10:45 – **David Owen** (CFI-UMN, Farrar lab)
“Visualizing thymic regulatory T cell development with single cell RNA sequencing”

10:45 – 11:00 – **David Friedman** (Mayo Clinic Rochester, Shapiro lab)
“ST8Sia6 overexpression in cancer and its effect on the tumor microenvironment”

11:00 – 11:15 – Break

11:15 – 11:30 – **Emily Truckenbrod** (CFI-UMN, Jameson lab)
“CD8⁺ T cells exhibit cell-intrinsic tolerance to the self-antigen Trp2”

11:30 – 11:45 – **Kathy Ayasouf** (Mayo Clinic Rochester, Johnson lab)
“Brain-Thymus communication is a novel immunosuppressive feature of neurological insults”

11:45 – 1:15 – Lunch

1:15 – 2:15 – **Scientific Session 2**

Chairs: Henrique Borges da Silva (CFI-UMN), Kathy Ayasoufi (Mayo Clinic Rochester)

1:15 – 1:30 – **Chaofan Li** (Mayo Clinic Rochester, Sun lab)
“The transcription factor BHLHE40 programs mitochondrial regulation of resident CD8⁺ T cell fitness and functionality”

1:30 – 1:45 – **Vineet Joag** (CFI-UMN, Masopust lab)
“CD8 T_{RM} immunosurveillance and synergy with vaccine-induced antibodies to prevent mucosal HIV infection”

1:45 – 2:00 – **Chao Gu** (Mayo Clinic Scottsdale, Oh lab)
“Signaling Cascade through DC-ASGPR Induces Transcriptionally Active CREB for IL-10 Induction and Immune Regulation”

2:00 – 2:15 – **Jessica Fiege** (CFI-UMN, Langlois lab)
“Being 'dirty' impacts the immune response to influenza”

2:15 – 2:30 – Break

2:30 – 3:30 – **Michele Hogan** (AAI)
“You Have The Power! – Marc Jenkins, 2013”

3:30 – 5:00 – Free time

5:00 – 6:00 – **Career Development Session**
Chairs: Adam Burrack (CFI-UMN), Bryce Manso (Mayo Clinic Rochester)

5:00 – 5:15 – **Chad Kieper** (Seattle Genetics)
“Career options in Medical Affairs and Technology Transfer”

5:15 – 5:30 – **Kathy Brumbaugh** (Bio-Techne)
“Research Group Management in the Biological Sciences: An Industrial Perspective”

5:30 – 5:45 – **Tim Starr** (Univ. Minnesota Medical School)
“Getting the academic job, anecdotal advice from an accidental PhD scientist”

5:45 – 6:00 – **Adrian Ting** (Mount Sinai School of Medicine)
“Things they don't teach you in grad school and why your PI should have been a psychology major”

6:00 – 7:30 – Dinner

7:30 – 9:00 – Poster Session

9:00 – 11:00 – Party

Tuesday, October 15th, 2019

6:30 – 8:30 – Breakfast

8:30 – 11:40 – **Scientific Session 3**
Chairs: Henrique Borges da Silva (CFI-UMN), Kathy Ayasoufi (Mayo Clinic Rochester)

8:30 – 8:50 – **Jesse Williams** (CFI-UMN)
“Macrophage fate specification in atherosclerosis”

8:50 – 9:10 – **Eddie Ip** (Mayo Clinic Rochester)
“Metabolic regulation of macrophage functional polarization”

9:10 – 9:30 – **Xavier Revelo** (CFI-UMN)
“Immune Mechanisms of Inflammation in Metabolic Disease”

9:30 – 9:50 – **Kathryn Knoop** (Mayo Clinic Rochester)
“Gut Mechanisms of Neonatal Sepsis”

9:50 – 10:20 – Break

10:20 – 10:40 – **Laura Rogers** (Mayo Clinic Rochester)
“Sleeping Beauty screen identifies molecular drivers of intratumoral T cell accumulation”

10:40 – 11:00 – **Marco Pravetoni** (CFI-UMN)
“Antibody-based countermeasures to opioid use disorders and overdose”

11:00 – 11:20 – **Marion Curtis** (Mayo Clinic Scottsdale)
“Tumor Antigen-Directed Immunotherapy for Ovarian Cancer”

11:20 – 11:40 – **Hu Zeng** (Mayo Clinic Rochester)
“Stearoyl-CoA desaturase generated monounsaturated fatty acid critically contributes to humoral immunity”

11:40 – 1:00 – Lunch

1:00 – 1:15 – **Leesa Pennell** (BioLegend)
“Simultaneous Proteomics and Transcriptomics: TotalSeq™ and The Future of Single Cell Analysis”

1:15 – 2:30 – **Scientific Session 4**
Chairs: Adam Burrack (CFI-UMN), Kathy Ayasoufi (Mayo Clinic Rochester)

1:15 – 1:30 – **Joseph Greene** (CFI-UMN, Freedman lab)
“Lyn Kinase Isoforms Differentially Affect Recruitment of Myeloid Cells to the Tumor Microenvironment in Breast Cancer”

1:30 – 1:45 – **Bryce Manso** (Mayo Clinic Rochester, Medina lab)
“Investigations into the role of TNF α in Chronic Lymphocytic Leukemia bone marrow hematopoietic dysfunction”

1:45 – 2:00 – **Patrice Witschen** (CFI-UMN, Schwertfeger lab)
“Hyaluronan processing and function in the progression of breast cancer”

2:00 – 2:15 – **Laura Becher** (Mayo Clinic Rochester, Markovic lab)
“Co-potential of TCR antigen recognition in human T cells”

2:15 – 2:30 – **Kelly Makielski** (CFI-UMN, Modiano lab)

“Characterization of anti-tumor immune responses and effects on survival of neoadjuvant oncolytic virotherapy in spontaneous osteosarcoma”

2:30 – 2:45 – Break

2:45 – 4:00 – **Scientific Session 5**

Chairs: Henrique Borges da Silva (CFI-UMN), Bryce Manso (Mayo Clinic Rochester)

2:45 – 3:00 – **Beth Jacobson** (Mayo Clinic Scottsdale)

“Eosinophils in Health and Disease”

3:00 – 3:15 – **Julia Riedl** (CFI-UMN, Binstadt lab)

“A novel autoinflammatory skin disease in a patient with mutations in alpha-T-catenin”

3:15 – 3:30 – **Prasad Phatarpekar** (Mayo Clinic Rochester, Billadeau lab)

“Septins Regulate exocytosis of lytic granules in NK cells”

3:30 – 3:45 – **Justin Spanier** (CFI-UMN, Fife lab)

“Dissecting the CD4 T cell response in type 1 diabetes using antibodies that mimic the T cell receptor”

3:45 – 4:00 – **James Kremski** (Mayo Clinic Scottsdale, Kita lab)

“Oral tolerance to peanut allergy is mediated by CTLA-4-positive regulatory T cells”

4:00 – 4:15 – Concluding remarks, **Marc Jenkins** and **Daniel Billadeau**