The Metabolic Ecosystem of T cells and Tumors: Implications for Immunotherapy

Emerging evidence suggests that the metabolic environment of tumors can have a profound impact on anti-tumor immune responses. I will discuss some of the basic metabolic requirements of lymphocytes building on our previous work studying the role of autophagy in memory T cells and our recent discovery of a metabolic pathway regulated by STAT3. This STAT3-dependent pathway is critical for cell growth and proliferation during early T cell activation, yet dispensable in proliferating cells. I will also go over our recent findings on the impact of T cell metabolism in a breast cancer tumor model and how this may open up therapeutic avenues for strategies to combine standard therapy such as radiation with immune therapy.

STUDENTS: If you would like to attend a catered lunch with Dr. Lum at 12 noon in room 703
RSVP by May 27th, send an e-mail to lina.luciano@mcgill.ca

EVERYONE IS WELCOME