



**McGill University Research Centre on Complex Traits – MRCCT
SEMINAR SERIES**



Dr. Fumio TAKEI, PhD, Professor

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**Title: “Group 2 innate lymphoid cell memory:
what and how do they remember?”**

Wednesday, May 17, 2017

Meakins Amphitheater | Room 521, 12:00 PM

McIntyre Medical Sciences Building

“Group 2 innate lymphoid cells (ILC2s) in mouse lungs are stimulated by inhaled allergens and they produce large amounts of type 2 cytokines that drive type 2 lung inflammation. ILC2s also promote Th2 cell differentiation and they likely play an important role in the development of allergic diseases including asthma. We have recently found that allergen-activated ILC2s in the lung acquire memory functions and drive severe allergic lung inflammation upon allergen challenge. The gene expression profiles of naïve, activated and memory ILC2s also showed similarities between memory ILC2s and memory T cells. The implications of memory ILC2s to the development of allergic diseases as well as our understanding of immunological memory will be discussed.”

LOCATION: McIntyre Medical Sciences Building, Room #521, 12:00 PM

HOSTED BY: Dr. Jörg Fritz, McGill University Research Centre on Complex Traits (MRCCT)