

RIKEN – McGill Symposium

Excellence in Immunology & Genetics

Montreal, 8/9th May 2017

McCord Museum - 690 Rue Sherbrooke West, Montréal, QC, H3A 1E9

Monday 8th May

8:30 - 8:45 Welcome & Introduction

Philippe Gros (McGill) & Tadashi Yamamoto (RIKEN)

8:45 - 9:45 Genetics & Immunity

Ichiro Taniuchi (RIKEN) – Genetics of immune disorders in human and mouse

Philippe Gros (McGill) – Genetic analysis of neuroinflammation in mouse models

Yoichiro Kamatani (RIKEN) – Large GWAS of non-European population

9:45 - 11:45 Type 2 immunity & T regulatory cells

Kazuyo Moro (RIKEN) – Development of group 2 innate lymphoid cells

Coffee Break

Jörg Fritz (McGill) – Regulation of group 2 innate lymphoid cells and its functional implications in immunity

Hiroshi Ohno (RIKEN) – Mast cell-group 2 innate lymphoid cell interaction is important for clearance of helminth infection

Ciriacco Piccirillo (McGill) – Inborn errors of FOXP3+ regulatory T cell development in humans

11:45 - 14:20 Tools for functional analysis of the immune-related genome

Kazuhiko Yamamoto (RIKEN) – eQTL analyses of autoimmune diseases

Tomi Pastinen (McGill) – Genetic drivers of epigenetic and transcriptional variation in human immune cells

Lunch

Piero Carninci (RIKEN) – An emerging landscape of transcriptome complexity

Ioannis Ragoussis (McGill) – Single-cell genomics at the McGill University and Genome Quebec Innovation Centre

14:20 - 15:35 Tissue Dynamics & Inflammation

Takaharu Okada (RIKEN) – Imaging of skin nerves in normal and pruritic dermatitis conditions

Judith Mandl (McGill) – Visualising the spatiotemporal dynamics of T cells in homeostasis and immunodeficiency

Takashi Tanaka (RIKEN) – Negative regulation of inflammatory responses by LIM proteins

Coffee

16:00 - 17:40 Cancer

Tadashi Yamamoto (RIKEN) – Roles of Tob (transducer of ErbB2) in the control of cell proliferation and apoptosis

Fumihiko Ishikawa (RIKEN) – Understanding heterogeneity and complexity of leukemia with humanized mouse

Haruhiko Koseki (RIKEN) – Gene regulation by Polycomb variants

Nada Jabado (McGill) – Oncohistones: professional highjackers of the epigenome?

Tuesday 9th May

9:00 - 12:40 Determinants of health and disease

Celia Greenwood (McGill) – Challenges and solutions in analysis of DNA methylation

Anastasia Nijnik (McGill) – Regulation of the p53 Stress Response Pathway in Hematopoietic Stem and Progenitor Cells by the Chromatin-Binding Deubiquitinase MYSM1

Momoko Horikoshi (RIKEN) – Genomic loci associated with birth weight identify genetic links between intrauterine growth and adult metabolic disease

Silvia Vidal (McGill) – The role of model organisms in identifying heterogeneity in host susceptibility to virus infections

Coffee

Jacek Majewski (McGill) – Genetics of rare diseases

Sidonia Fagarasan (RIKEN) – TBA

Maya Saleh (McGill) – Crosstalk of innate immunity and cell death in inflammatory diseases and cancer

Yukihide Momozawa (RIKEN) – Exploiting multitissular transcriptome data indicates multiple coregulated causative genes per locus in inflammatory bowel disease

Lunch

13:40 - 14:55 Metabolomics and disease

Marc Dumas (McGill) – Metabolomics and metagenomics in health and disease

Toshimori Kitami (RIKEN) – Chemical genomics of mitochondria in health & disease

Brent Richards (McGill) – Mendelian Randomization for Drug Target Identification Through Metabolomics

14:55 - 15:15 Quantitative approaches

Simon Gravel (McGill) – Population genetics and recent human history

Coffee

15:30 - 16:45 Summary and discussion

Moderated by Mark Lathrop (McGill) & Tadashi Yamamoto (RIKEN)