

A New Era of Precision Medicine in Transplantation

UBC Faculty of Medicine
Department of Medicine & Pathology

RESEARCH TALK

Date: May 28, 2019
Time: 11:00am – 12:00pm
Room: Taylor Fidler, Room 141
(JPPN 1st Floor)

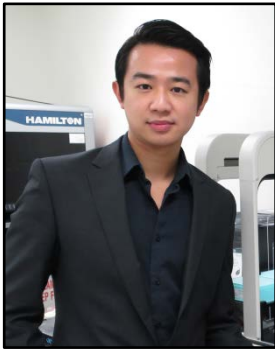
REGISTER



Deadline: May 20th, 2019

Applicant: James Lan, MD, FRCPC, D(ABHI)

Position: Assistant Professor, Transplantation and Immune-Mediated Diseases, Department of Medicine & Pathology, UBC



James Lan, MD, FRCPC, D(ABHI)

Dr. Lan is a Clinical Assistant Professor at the University of British Columbia, a transplant nephrologist at the Vancouver General Hospital, and the Provincial Immunology Consultant for BC Transplant Society.

He obtained his medical degree, internal medicine, and nephrology training at the University of British Columbia. In 2013 he was funded by the Clinician Investigator Program to cross-train in Histocompatibility and Immunogenetics under Dr. Elaine Reed at the University of California, Los Angeles Immunogenetics Center. After successful accreditation by the American Board of Histocompatibility and Immunogenetics, he is now part of a select number of Canadian transplant physicians with dual certification in clinical transplantation and HLA directorship.

In addition to his clinical roles, Dr. Lan is also an accomplished clinician scientist who played a major role in spearheading the successful application of NGS for high-throughput, high-resolution HLA genotyping in solid organ, and hematopoietic stem cell transplantation. His work on complement-binding assays provided key data for AMR risk-stratification models and the field's understanding of transplant rejection.

A major focus of his current research aims to bring together donor-recipient HLA epitope mismatches and patient pharmacogenomics, pharmacokinetics and pharmacodynamics to develop an integrated, systems pharmacology strategy for personalized immunosuppression. Dr. Lan has garnered multiple grant funding and salary awards including a VCHRI MCS award, and is a co-investigator and team lead of a 10M Genome Canada award which aims to apply precision medicine to overcome antibody-mediated rejection.

In his presentation, *A New Era of Precision Medicine in Transplantation*, Dr. Lan will discuss the current barriers in transplantation and how emerging concepts in HLA epitope disparities may be integrated with advanced laboratory technologies to transform patient outcomes in kidney transplantation.



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