

Wednesday, October 3, 2012
12:00 pm
in LSC3

Life Sciences Centre
2350 Health Sciences Mall



Dr. Scott Tebbutt

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Chief Scientific Officer, PROOF Centre of Excellence
UBC James Hogg Research Centre
Institute for Heart + Lung Health

“Blood-based signatures of disease: case studies in allergic asthma and kidney transplant rejection.”

Peripheral whole blood is often the sample of choice for molecular profiling (“omics”) studies. Its collection is cost-effective and non-invasive, allowing for serial sampling study designs. As a vehicle of the immune system, blood is uniquely suited to the study of immune processes in health and disease. Measuring genome-wide changes in transcript abundance in blood can deliver a comprehensive view of the status of the immune system and gene expression changes in peripheral whole blood have been useful in studying the pathobiology of many diseases. In this seminar, I will highlight recent progress we have made in molecular profiling projects that have utilized peripheral blood samples to investigate disease-related conditions in two different organs, lung and kidney:

1. early and late asthmatic responses following allergen inhalation challenge;
2. acute renal allograft rejection.

I will also describe some of the inherent limitations that pertain to the use of omics-based tools on heterogeneous tissues such as blood, and offer some potential solutions that can be deployed to help overcome such challenges.

This Seminar is sponsored by:

GRIFOLS

Host: Dr. Ed Conway, CBR Director, Professor of Medicine, UBC



Refreshments will be served 10 minutes before the seminar
Seminar information: 604 822 7407

