



Dr. Philip Low,
Ralph C. Corley Distinguished Professor
of Biochemistry, Purdue University

Wednesday, March 30, 2011
12:00pm
in LSC3

Life Sciences Centre
2350 Health Sciences Mall

“The Structure and Function of the Human Red Blood Cell Membrane”

We are investigating the function and molecular organization of the human red blood cell membrane. Included in this research are projects aimed at characterizing: i) the organization of membrane-spanning proteins into multi-protein complexes, ii) the interactions between these membrane complexes and the underlying cytoskeleton, iii) the effects of mutations and deficiencies in specific membrane proteins on various membrane properties, iv) the signal transduction pathways that control cell shape, flexibility, metabolism, ion transport, and senescence, and v) the crystallographic structures of important membrane proteins.

Because the membrane-spanning protein, band 3, catalyzes anion transport, links the cytoskeleton to the membrane, organizes a glycolytic enzyme complex on the membrane, binds/regulates at least 8 other proteins, and serves as the senescent cell antigen, we are focusing much of our attention on this protein's structure and function. In this seminar, I will present a brief overview of the current understanding of each of the above areas of investigation.

This Seminar is sponsored by:



Host: Dr. Kelly McNagny, Professor, Medical Genetics, Biomedical Research Centre, UBC



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

