

Advanced Immunology – 641

Phil King – Director

This advanced level immunology course is intended to build on material covered in Micro 640. Focus will be upon intracellular signaling mechanisms in lymphocytes and innate immune cells. The role of these pathways in immune cell development and genesis of the immune response will be discussed, as will their significance to immunologically mediated disease. Concepts will be explored through didactic lecture and paper discussions that together with Micro 640 are expected to result in an in-depth understanding of the immune response at a molecular level. Micro 640 is a prerequisite.

Instructors –

Mary O’Riordan (Sessions 1&2 - signaling in innate immune cells)

Phil King (Sessions 3&4 - T cell signaling)

Irina Grigorova (Sessions 5&6 – B cell signaling)

Beau Carson (Session 7 – epigenetic control of immune responses)

Exam – Essay-based take home exam