

PI Seminar Series

Speaker:

Dr Christopher Duncan

Venue:

Dental Lecture Theatre F

Date:

Wednesday 8th May 2019

Time:

13:00 – 14:00

Dr Christopher Duncan will present:

Protective and pathogenic effects of type I interferon: lessons from human genetics

Type I interferons are potent antiviral cytokines with pleiotropic functions, including the regulation of cellular activation, proliferation and apoptosis. A large body of work in cell systems and animal models has advanced our understanding of these properties, but just how relevant is type I interferon to immunity in the intact human? I will summarise our recent work in identifying novel monogenic lesions of the human type I interferon signalling pathway, which shed light on this question. These disorders - leading to either too little or too much type I interferon activity - suggest the existence of an operational 'sweet spot' where antiviral defence is achieved without incurring excessive tissue damage.

Chair: Prof Sophie Hambleton