

2018 Seminar

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Cell Death-induced Pathways to Inflammasome Activation

Dr Kate Lawlor

Centre for Innate Immunity and Infectious Disease, Hudson Institute of Medical Research

Dr Lawlor received her PhD in Medical Biology in 2004 at the Walter and Eliza Hall Institute of Medical Research and The University of Melbourne. After being awarded an NHMRC CJ Martin Overseas Biomedical Fellowship, she completed postdoctoral research at the Cambridge Institute for Medical Research, University of Cambridge, UK and the Walter and Eliza Hall Institute, most recently in the laboratory of Dr James Vince. During this time she established expertise in the molecular and cellular dissection of inflammatory signalling pathways, and the translation of these findings *in vivo* using models of autoimmune, inflammatory and infectious diseases. In 2018, she was recruited to head the Cell Death and Inflammatory Signalling group within the Centre for Innate Immunity and Infectious Diseases at the Hudson Institute.

Her recent work has transformed our understanding of programmed cell death in the context of inflammation, by revealing how distinct cell death pathways can activate pattern recognition receptors, called inflammasomes, to promote inflammation. This work has resulted in numerous publications in prestigious journals, including *Immunity*, *Nature Communications*, *Cell Reports*, *EMBO Reports*, *Cell*, and *PNAS*. Dr Lawlor is also actively engaged with industry, acting as a scientific consultant for a number of companies and is an inventor on a patent for an anti-inflammatory therapy, now under licence and in phase I clinical trials.



DATE

**THURS 20
SEPTEMBER**

TIME

12.00PM – 1.00PM

LOCATION

**TRF BUILDING
LEVEL 2, SEMINAR
ROOMS 1 AND 2**