

**Thursday  
21<sup>st</sup> July**

**DR KATE  
STACEY**

**University of  
Queensland**

**Title:**  
*Cytosolic DNA,  
inflammasomes,  
dengue virus and  
TLR4: are they all  
connected?*

**12:00pm  
Auditorium**



**DMI  
SEMINAR**



**Host:  
Dr Linda  
Wakim**

Everyone welcome. For visitors wishing to have further discussions with the speaker after the seminar, light refreshments will be provided in the Doherty Institute Tearoom on Level 5.



Dr Stacey's Research interest is pathogen receptors of the innate immune system. Her early work revealed two pathways of macrophage response to foreign DNA. She pioneered work on macrophage activation by bacterial ("CpG") DNA, recognised via toll-like receptor 9 (TLR9) in the endosomal system. Interest in a second pathway - cell death induced by recognition of DNA in the cytosol, led to elucidation of the AIM2 inflammasome, and a wider interest in inflammasome function. Dr Stacey is currently investigating new pathways of cell death induced by DNA in the cytosol of cells, as well as the involvement of TLR4 in the pathology of dengue virus infection.



**UNIVERSITY OF MELBOURNE  
DEPARTMENT OF MICROBIOLOGY  
AND IMMUNOLOGY**

