



Institute of  
Cellular Medicine

## PI Seminar Series

**Speaker:** Liv Eidsmo, MD PhD, Associate Prof, Dermatology and Venereology,  
Department of Medicine Solna, Karolinska Institutet

**Venue:** Baddiley Clark Seminar Room

**Date:** Monday 9<sup>th</sup> April 2018

**Time:** 1.00 – 2.00pm

**Dr Liv Eidsmo will present:**

***“Resident T cells in human skin – protective, pathogenic or contextual?”***

### **Abstract**

Resident T cells provide barrier immunity against a number of pathogens in murine models of viral infections. The human skin hosts a heterogeneous pool of resident T cells and we study the functional properties of these cells in health and disease. We recently reported that CD49a marks CD8<sup>+</sup> T cells poised to cytotoxicity and IFN-gamma production, while IL-17 producing T cells lack CD49a-expression in healthy skin. The balance and functionality of these subsets is altered in inflammatory skin diseases. In psoriasis, resident T cells poised to IL-17 are enriched in active and resolved lesions. In situ activation of resident T cells induce psoriasiform tissue responses following that correlates to clinical outcome following UVB treatment, indicating that these cells steer pathology in focal skin diseases. In depth knowledge of resident T cell biology may open up for both novel vaccination protocols and therapeutic strategies in focal skin diseases.

**Chair: Professor Muzz Haniffa**