SIgN
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SIgN Immunology Seminar



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Architectural regulation of cytotoxic T cell function

Host
Dr Evan Newell
Singapore Immunology Network, A*Star

Date
Thursday
6 August 2015

Time
11am – 12pm

Venue
SIgN Seminar Room
Immunos Building
Level 4
Biopolis

Antigen recognition induces the formation of a specialized interface between a T cell and its antigen-presenting cell known as an immunological synapse, which is thought to promote T cell function by focusing and specifying effector responses. The dynamic movements of molecules, membrane, and organelles within the synapse are guided and supported by the polarized reorganization of both the microtubule and actin cytoskeletons. Using a multidisciplinary approach that combines single cell imaging, synthetic chemistry, and cellular biophysics, we have explored the pathways that control these remodeling events. We are now focusing on the implications of these pathways for T cell function.