

## Seminar Announcement

### Extranuclear functions of the polycomb group protein Ezh2

Date: 13 May 2016 Friday

Time: 4pm

Venue: Classroom 1, SBS



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## Abstract

Previously, we suggested a cytosolic role for the histone-lysine-methyltransferase, Ezh2, in regulating lymphocyte activation. Our recent data further demonstrate that Ezh2 regulates adhesion dynamics and migration of leukocytes through direct methylation of the extra-nuclear protein, talin. Ezh2-mediated methylation of talin, a key regulatory molecule in cell migration, disrupts talin binding to F-actin and thereby promotes adhesion structure turnover. The functional significance of Ezh2-mediated talin methylation in immune responses and cellular transformation is further investigated using a mouse model for allergic contact dermatitis and tumor graft mouse models, respectively.