Department of Biomedical Sciences presents a seminar



Integrin Adhesion Site Dynamics During the Cell Cycle

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- Date : 7 December 2022 (Wednesday)
- 11:00am 12:30pm Time :
- Mr & Mrs David T F Chow Lecture Theatre LT4, Venue: 4th Floor, Yeung Kin Man Academic Building (Yellow Zone)

Abstract

The disassembly of integrin-containing focal adhesions (FAs) at mitotic entry is essential for cell rounding, formation of mitotic retraction fibers and thus, for bipolar spindle positioning and chromosome segregation. The mechanism that drives FA disassembly at mitotic entry is unknown. We discovered that the downregulation of

kindlin, an essential integrin co-activator, is essential for FA disassembly at the onset of mitosis, whereas kindlin upregulation at the end of mitosis (cytokinesis) ensures FAs re-assembly. At the seminar, I will discuss how kindlin degradation is achieved and highlight why the exquisite regulation of kindlin levels at mitotic entry is essential for cells to progress flawlessly through mitosis.

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All are welcome!