

SEMINAR
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Hosted by Prof Wong Sek Man



Mitosis in budding yeast: Force and function

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Faithful chromosome segregation during mitosis requires mitotic spindle assembly followed by highly choreographed events that must occur at the appropriate time and in the appropriate order. Defects in mitotic fidelity contribute to birth defects and cancer. Therefore, it is important to develop a deep mechanistic understanding of mitotic mechanisms and regulation. Among the key questions that this research addresses are: How are forces generated to move chromosomes to spindle poles? How is the precise choreography of mitotic events achieved? How does each chromosome establish a bi-oriented attachment to the mitotic spindle? How does the spindle disassemble as a cell exits mitosis? What are the individual and collective roles of microtubule-associated proteins in microtubule dynamics regulation and how are their activities regulated during the cell cycle?