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**October 11, 2019 4–5pm**  
iCeMS 2F Seminar Room,  
KUIAS/iCeMS Main Building

# Coordinating crossover recombination and chromosome morphogenesis during meiosis

Our lab studies meiotic recombination, the essential process that produces gametes with a balanced chromosome content, using the budding yeast *Saccharomyces cerevisiae* as a model system. Meiotic recombination events are tightly linked to the large chromosome structural changes that accompany the prophase of the first meiotic division. In particular, crossover formation occurs at the pachytene stage, where the synaptonemal complex aligns homologous chromosomes, and crossover formation in budding yeast is triggered by the polo-like kinase that also promotes exit from the pachytene stage and the first meiotic division.

I will present our recent data that highlight the molecular links that exist between crossover formation and the synaptonemal complex, and the mechanism by which the polo-like kinase triggers crossover formation.

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