

**P026** The role of Rad50 at uncapped telomeres  
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The MRX (Mre11, Rad50 and Xrs2) complex is required for the generation and processing of meiotic double strand breaks, as well as having roles in the mitotic DNA damage response, homologous recombination, non-homologous end joining and telomere maintenance. Cdc13p plays an essential role in the capping of *Saccharomyces cerevisiae* telomeres. The *cdc13-1* allele is a temperature sensitive mutation in which the capping function is impaired when the temperature is raised.

The function of the MRX complex at uncapped telomeres is not known. To address this question, I used the *cdc13-1* allele and a temperature sensitive Rad50p. My data suggests that Rad50p is not required for the checkpoint response at uncapped telomeres. My data also demonstrates that Rad50p appears to play a protective role at uncapped telomeres rather than a role in resection, as might be expected due to its role in meiosis. This protective role of MRX may be due to MRX acting as a capping protein, possibly through inhibiting nuclease activity at telomeres