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DNA Mismatch Repair and Checkpoint System during Meiosis

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thermophila is a good model organism for DNA mismatch repair (MMR) research. Its 'big' single-cell body makes it easy to determine the change of chromosomes. Its conjugation (mating) is inducible, which is an advantage for studying protein functions during meiosis. MMR elevates DNA replication fidelity. Checkpoint systems maintain genomic integrity within the cell cycle. If a certain level of DNA damage has been accumulated from the replication process or from DNA damaging agents, the cell cycle will be arrested to allow checking and repairing of the damage. There are mitotic checkpoints and meiotic checkpoints. However, the mechanism of meiotic checkpoint systems is still uncertain. In this book, the relation between meiotic checkpoint and DNA MMR has been studied in *T. thermophila*, which is interesting in understanding the meiotic checkpoint system in eukaryotes. 112 pp. English.



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Reviews

I actually started looking over this publication. It really is rally interesting throgh studying period. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Dana Hintz**

Good electronic book and valuable one. It really is basic but unexpected situations in the 50 percent in the pdf. You wont really feel monotony at at any moment of your time (that's what catalogues are for concerning when you ask me).

-- **Elisa Reinger**