

Reading Assignment for DNA Repair and Recombination Lecture:
MBOC 5th edition

Chapter 5 – DNA Repair and Recombination

<u>Pages</u>	<u>Sections</u>
276-278	A strand-directed mismatch repair system removes replication fork errors that escape from the replication machine.
295-299	DNA Repair. Without DNA repair, spontaneous DNA damage would rapidly change DNA sequences. The DNA double helix is readily repaired. DNA damage can be removed by more than one pathway.
304-306	Homologous recombination. Homologous Recombination has common features in all cells DNA base-pairing guides Homologous Recombination
316-321	Transposition and Conservative Site-specific Recombination. Through Transposition, mobile genetic elements can insert into any DNA sequence DNA-only transposons move by both cut-and-paste and replicative mechanisms. Some viruses use transpositional site-specific recombination to move themselves into host cell chromosomes.