Cheatography

Major Enzymes in Biology Cheat Sheet by Chimichangasguy via cheatography.com/67347/cs/19839/

	DNA replication related enzymes	Transcription related enzymes	
I	In Prokaryotes		J
	Helicase: Uses ATP hydrolysis as a driving force to		
	break hydrogen bonds between nitrogenous base pairs		
	DnaG (Primase): Adds RNA primer		
	RNase H: degrades RNA primer		
	DNA polymerase I: exonuclease activity + removes		
	RNA primer		
	DNA polymerase II: repair		
	DNA polymerase III: main enzyme that adds nucleotide		
	in 5' -> 3' direction		
	Topoisomerase: relives stress (supercoiling) created by		
	unwinding		
	Ligase: ligates okazaki fragements in 3' -> 5' direction		
	In Eukaryotes		
	Helicase		
	Gyrase		
	Ligase		
	Topoisomerase		
	DNA polymerase Alpha: starts replication at the primer		
	+ proof reading		
	DNA polymerase Beta: recombines chromosomes		
	during proof reading		
	DNA polymerase Delta: synthesizes lagging strand + 3'		
	-> 5' exonuclease activity - associated with protein		
	PCNA		
	DNA polymerase Epsilon: synthesizes leading strand +		
	3' -> 5' exonuclease		
	DNA polymerase Gamma: replicates mitochondrial		
	DNA		



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