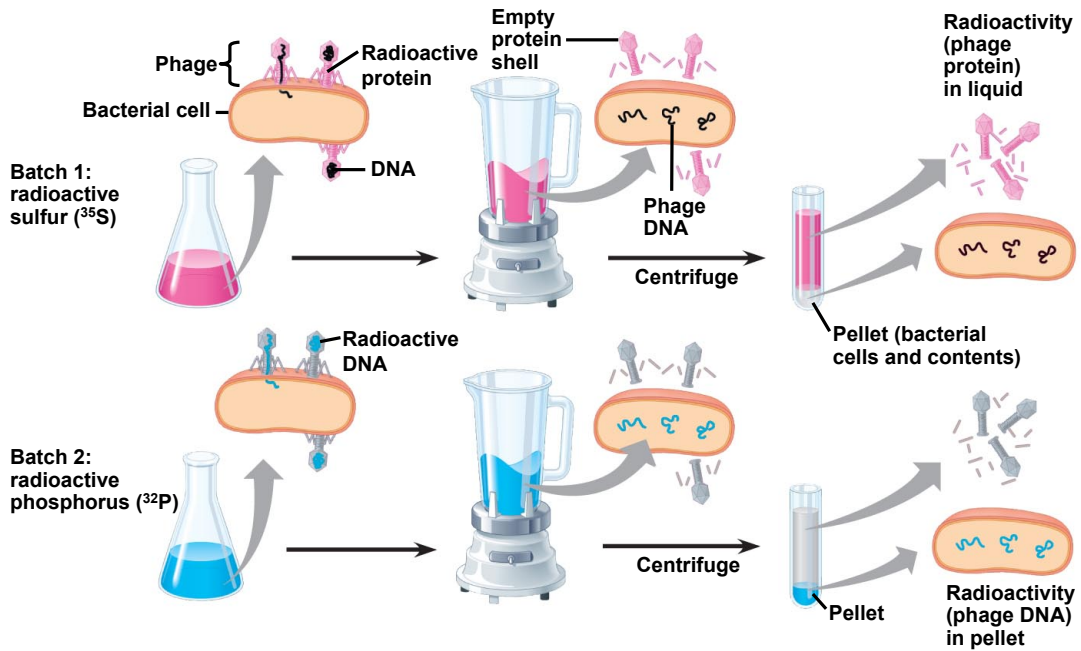


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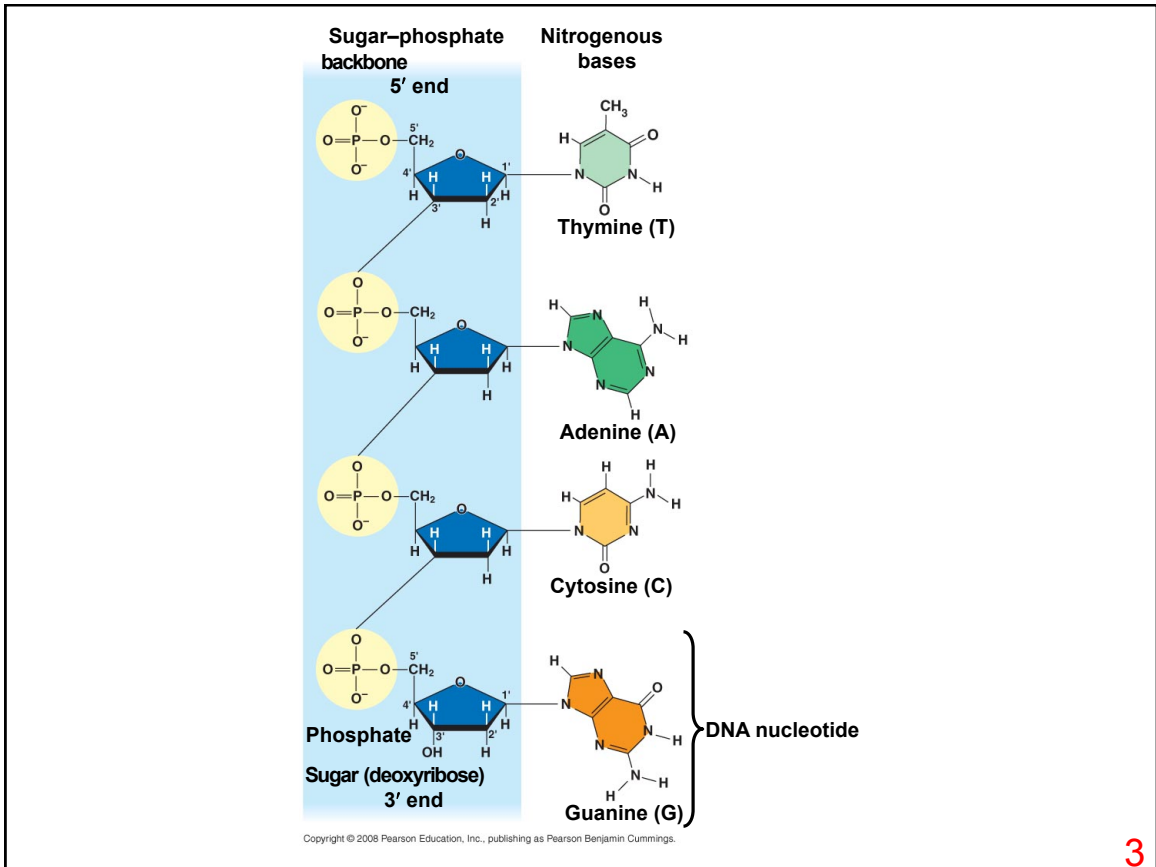
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EXPERIMENT

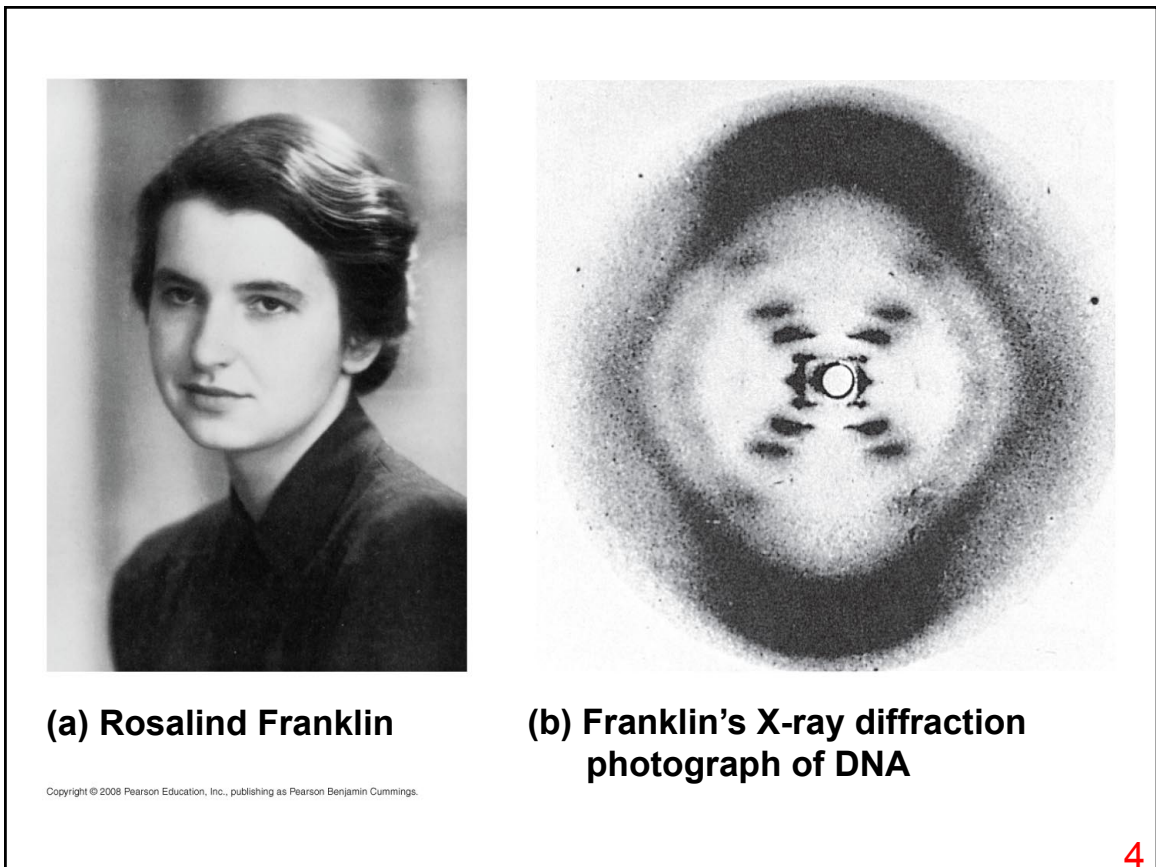


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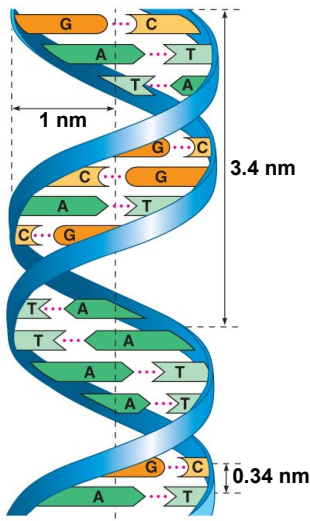
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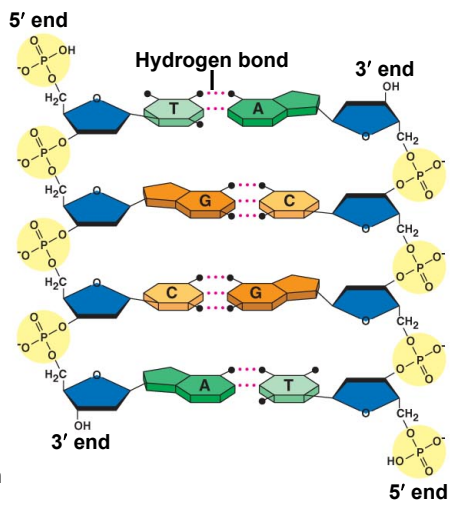
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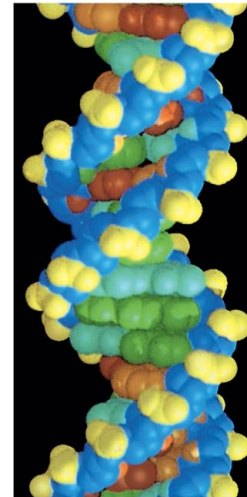
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(a) Key features of DNA structure

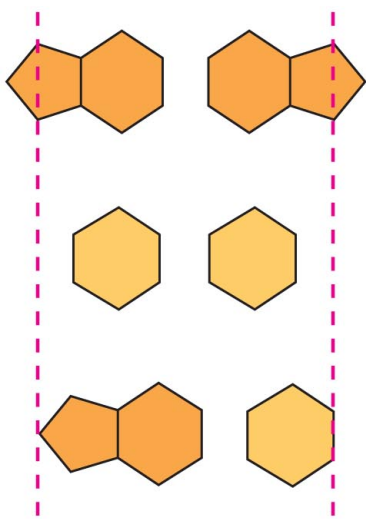


(b) Partial chemical structure



(c) Space-filling model

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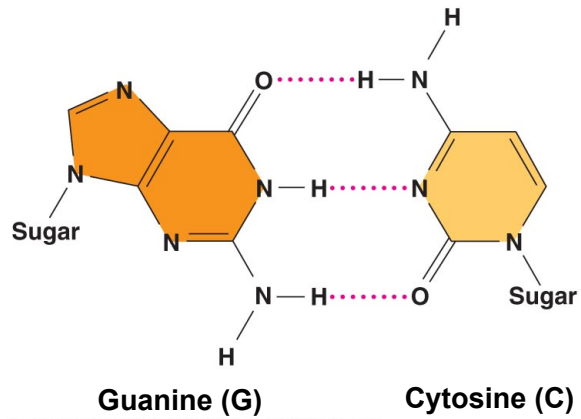
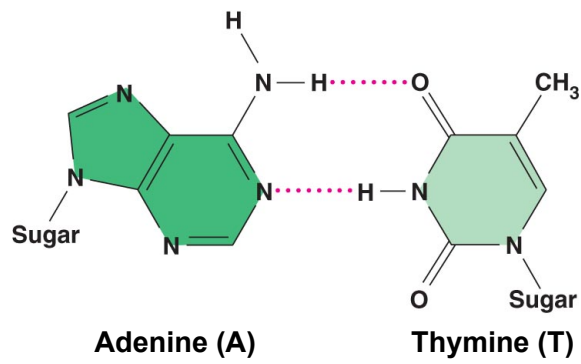


Purine + purine: too wide

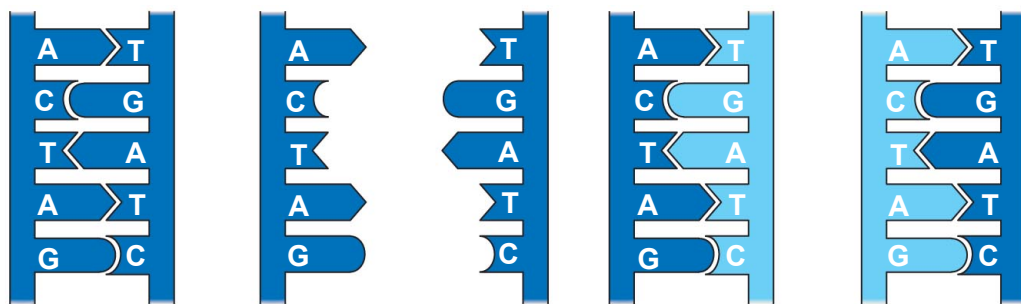
Pyrimidine + pyrimidine: too narrow

Purine + pyrimidine: width consistent with X-ray data

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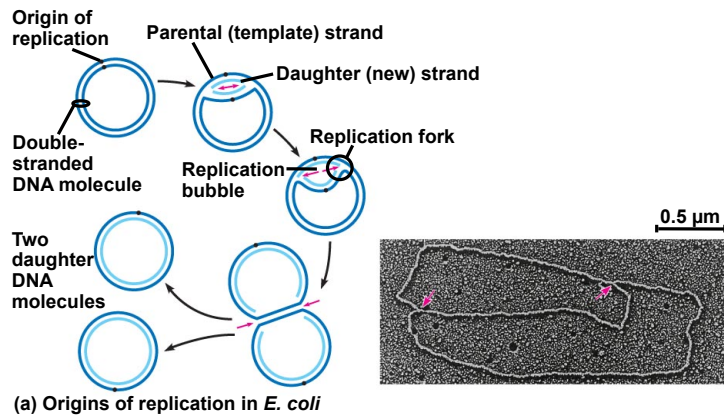


(a) Parent molecule

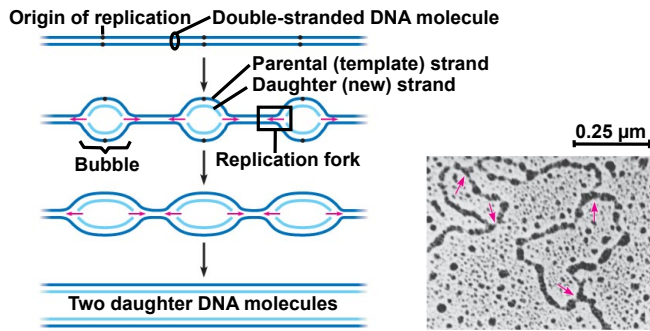
(b) Separation of strands

(c) "Daughter" DNA molecules, each consisting of one parental strand and one new strand

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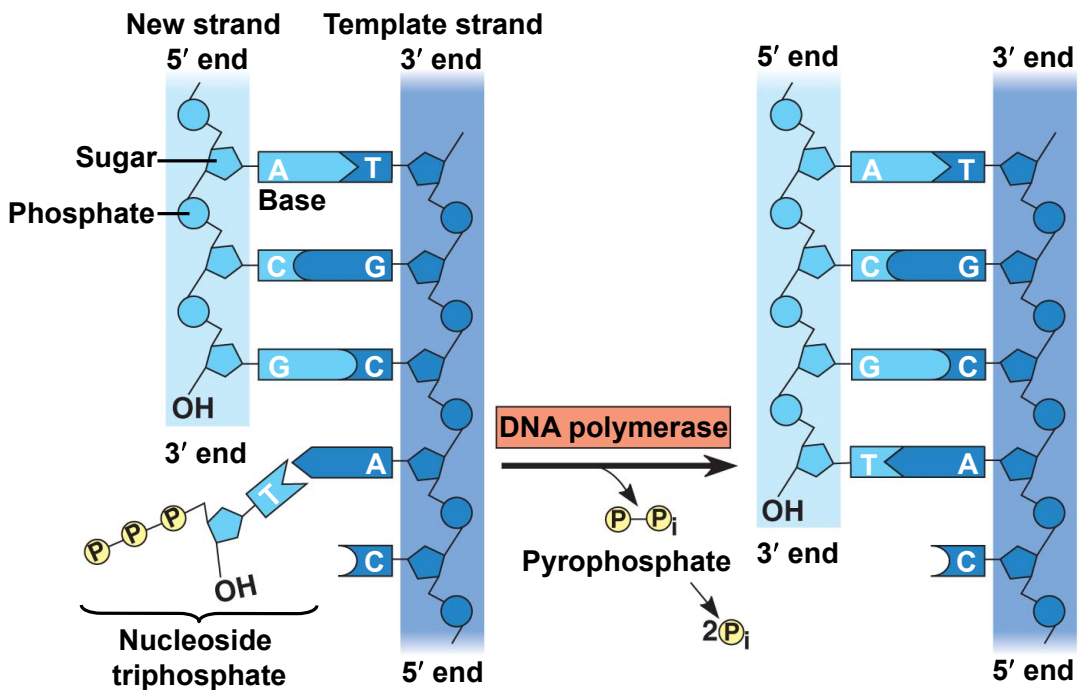


(a) Origins of replication in *E. coli*

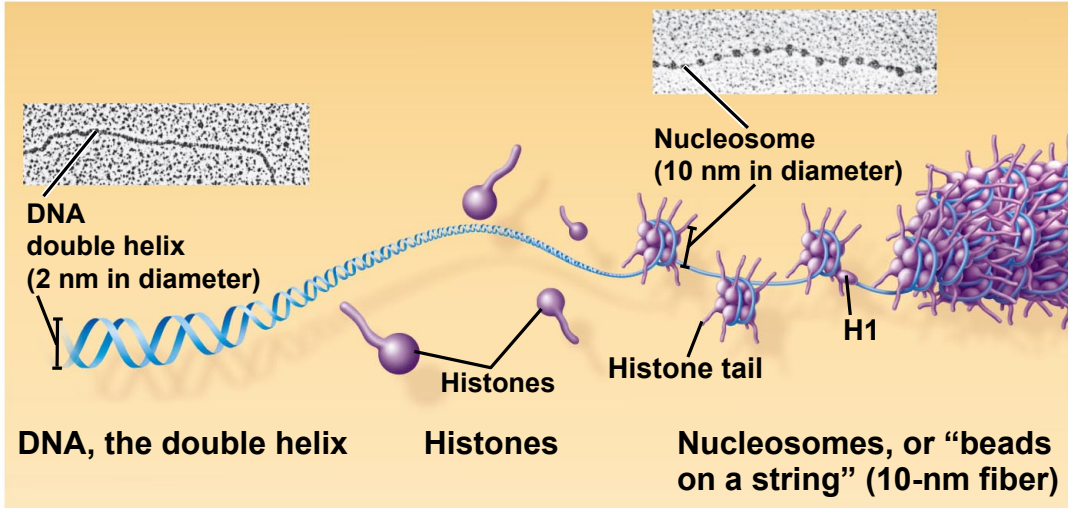


(b) Origins of replication in eukaryotes

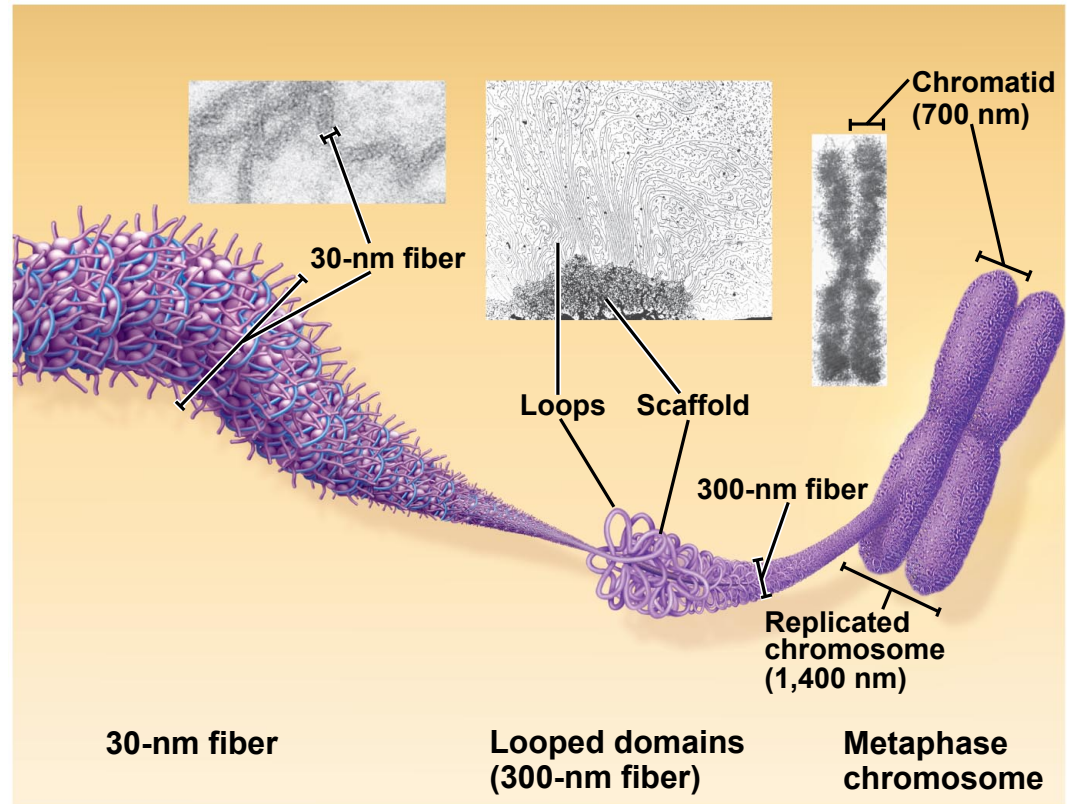
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