DNA polymerase is 51 to 3' direction,

31 St Jan 2024

-Rivin the directionin which synthesin proceeds.

- To Okazaki Okazaki discovered the evidence of his faagments when we isolated DNA from dividing. Cells, and centrifugated them. He found small DNA faagments. (More complicated, but this is the digist.
- Replication of both the streamd, news to a coordinated, as if they are mismatched they cannot forther chownation together, etc.
- P 5 / > 3' as the seaw material istai phosphale
 nucleofice subarrs energy like at ATP facoms'
 end to provide energy for polymerase.
 Polymerase first gets the energy then does its job.
- The polymerases on each strand comes close and form a complex and moves together. This is allowed due to looping of the legging strand.

 This coordinates suplication of the strands.

 Diagram of loop in slides.
 - RHOSE RNASE primer binds to DNA sother polymercase can succeptive it and bind to it to start suplication. O Kazaki fragments have never several ruch primares aritin discontinuous unlike leadings) mand. There are sumoved by RNASE and filled in by ligase.
 - DNA polymerase of I does main replication, DNA polymerase III does gap filling, etc.
- Opening coil.

- -> Ribore rugars are not allowed in Replication due to steric hindrence from - OH.
- *Monday Clarstest tutorial hours syllabus is whatever taught before monday.

1 St February 2024

Three are several origins of replication in the human DNA.

Telonweare is a surveyse transcriptore - takes RNA as template to synthesize ONA. very scare - only found in selve viruses apart from this.

It fixes the oxazaki fragmentend shortening problem.

Helicase localing and activation in the scale determining step of DNA replication.

ORC - Onigin see cognition Complex.