

RNA PRIMING

MS. SHREYASI DUTTA

DEPARTMENT OF BOTANY

RAJA N.L KHAN WOMENS' COLLEGE

(AUTONOMOUS)

GOPE PALACE, MIDNAPUR

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- ❖ *The synthesis of DNA strands is initiated, that is, by which DNA polymerase is provided with a 3' hydroxyl group to which incoming nucleotides are added.*

RNA priming is catalyzed by the enzyme *primase*, which is a DNA-template *RNA polymerase*. While the resulting RNA initially forms a portion of the synthesized DNA strand, at some point that RNA primer must be removed and replaced with DNA.

- ❖ This process, both priming and removal, occurs repeatedly on the *lagging strand* in association with *Okazaki fragment* synthesis.

What is the role of RNA primer?

- ❖ A primer is a short nucleic acid sequence that provides a starting point for DNA synthesis. In living organisms, primers are short strands of RNA. A primer must be synthesized by an enzyme called primase, which is a type of RNA polymerase, before DNA replication can occur. (Stephen)

Ref-

- lewens gene X (BOOK)
- Study.com...,
- Stephen T abendon ,2016