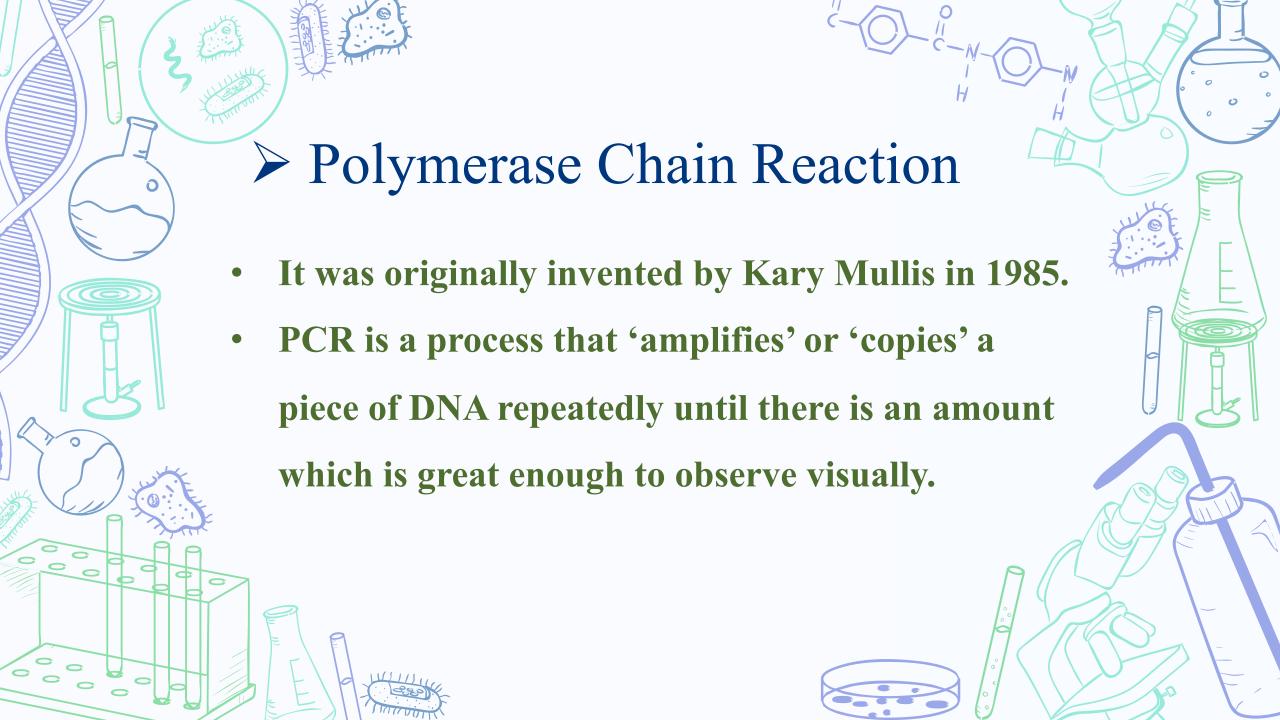


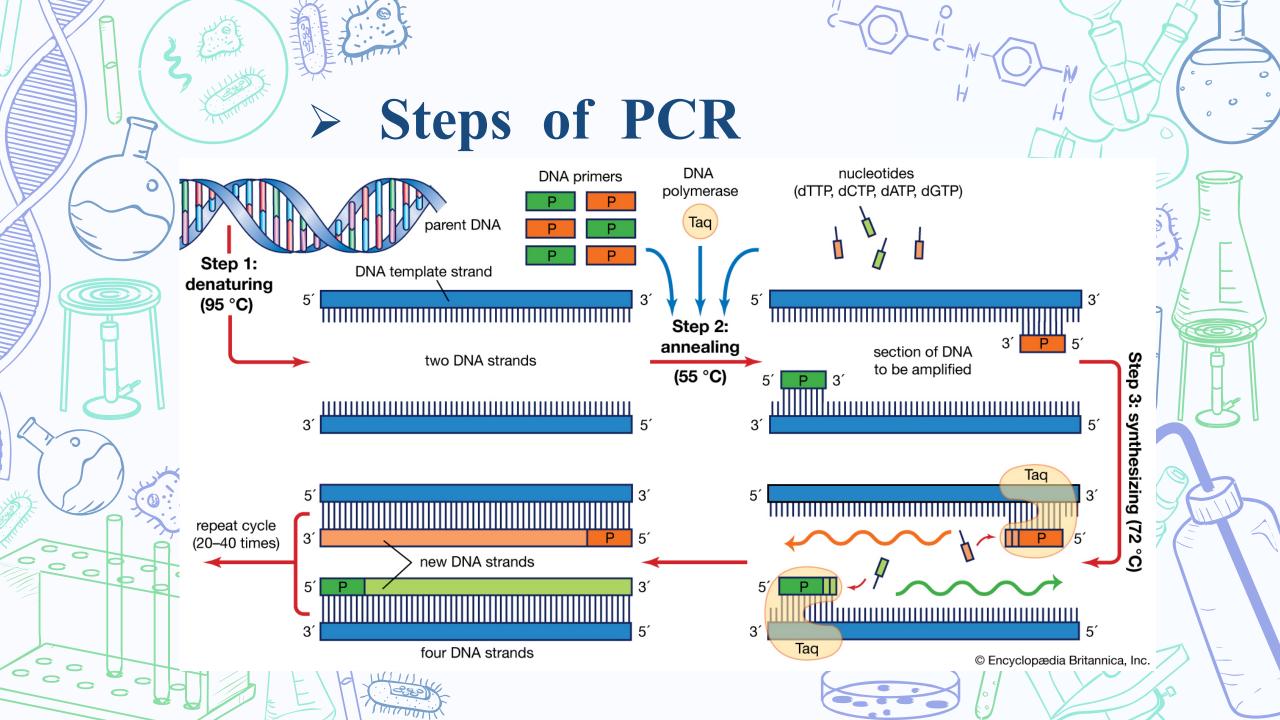
ILO's

- > Define Polymerase Chain
- Reaction (PCR)
- **Describe steps of PCR**
 - **Identify types of PCR**
 - **Explain application of PCR**









> Types of PCR

RT-PCR(or Reverse Transcription PCR)

Ligationmediated PCR

Nested PCR

Variable Number of Tandem Repeats (VNTR)
PCR

Methylationspecific PCR (MSP)

Asymmetric PCR

Multiplex-PCR

> Types of PCR

Assembly PCR

(also known as

Polymerase

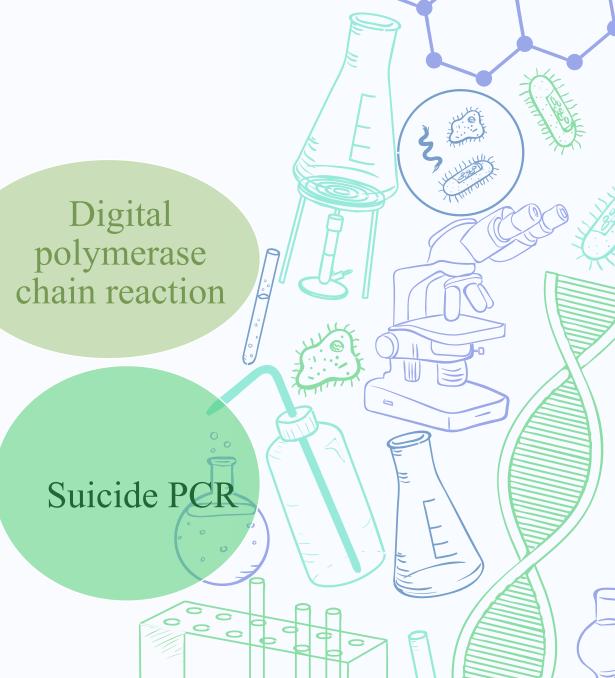
Cycling Assembly

or PCA)

Touchdown PCR

Colony PCR

COLD-PCR (coamplification at lower denaturation temperature-PCR)

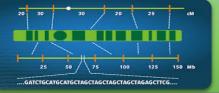




> Application of PCR



Molecular biological research



Genetic Mapping studies



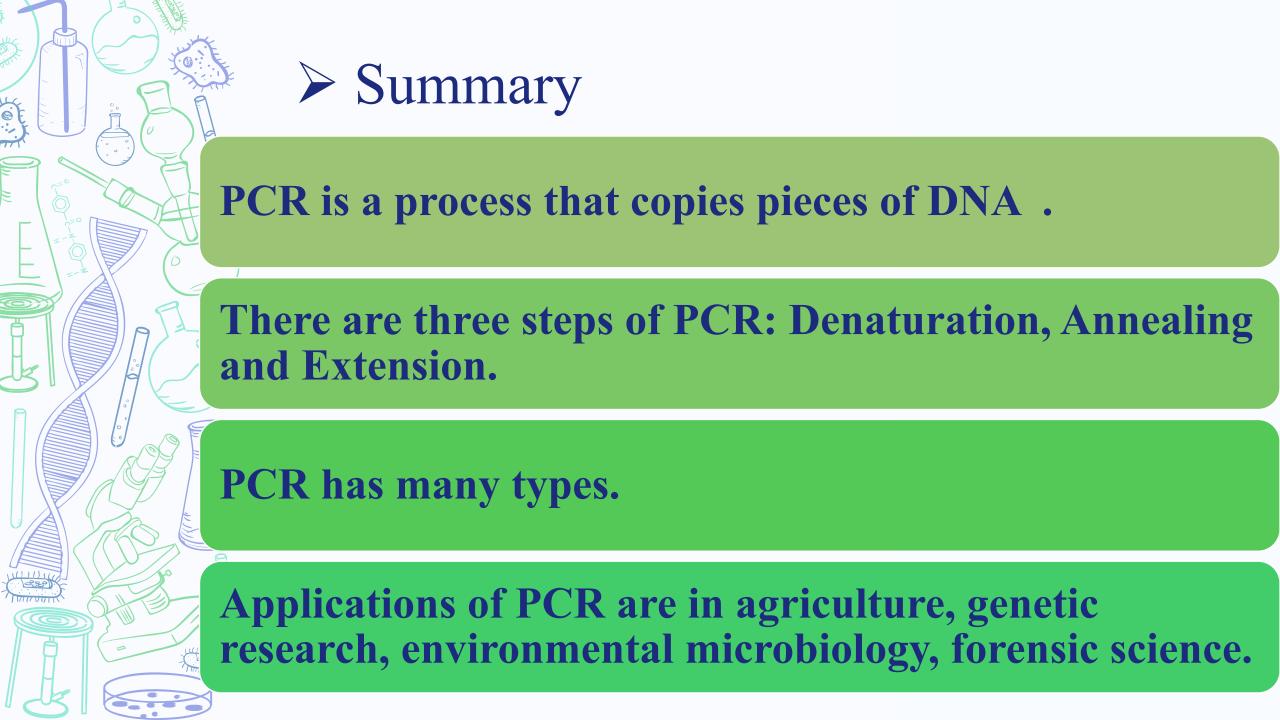
Clinical and diagnostic uses



Genetic identification and DNA typing



Identification of trace amount of DNA





> References

Introduction To Biotechnology and Genetic Engineering License, Disclaimer of Liability, and Limited Warranty, (2007).

https://www.quora.com/What-are-the-different-types-of-PCR

https://scholar.google.com.ly/scholar?q=applications+of+PCR

https://cdn.britannica.com/77/22477-050-16EFB7B3/process-

polymerase-chain-reaction.jpg

