

# Sanger Sequencing Recap

## Method

Chain termination sequencing using dideoxynucleotides (ddNTPs)

## Year Introduced

1977 by Frederick Sanger (Nobel Prize 1980)

## Read Length

400-900 base pairs per read

## Accuracy

99.9% accuracy (very high)

## Key Characteristics

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- Gold standard for verification and validation
- Low throughput - sequences one fragment at a time
- Relatively expensive per base (~\$500 per sample)
- Takes several hours to complete
- Best for targeted sequencing of specific genes

## Clinical Use Today

Still widely used for confirming genetic variants and clinical diagnostics