

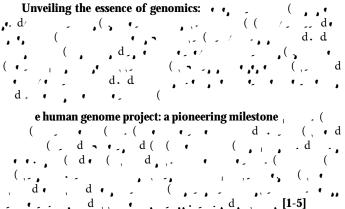
## Exploring the Frontier of Life: The Fascinating World of Genomics

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#### **Abstract**

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### Methods and technologies powering genomics

### on high-throughput Nequenc milii)rOlik

: is area focuses on understanding the functions of genes and their interactions. Techniques like CRISPR-Cas9 enable gene editing, allowing scientists to modify speci c genes to study their e ects.

Genomics' impact on healthcare: Personalized Medicine: Genomics has revolutionized healthcare by enabling personalized treatment plans based on [6] an individual's genetic makeup. Pharmacogenomics studies how genetic variations in uence responses to medications, leading to more e ective and tailored therapies.

Disease understanding and prevention: Genomic research has illuminated the genetic underpinnings of various diseases, providing

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