

Human Genome Sequencing

Generating a Reference Genome Sequence (e.g., Human Genome Project)



Genomic DNA

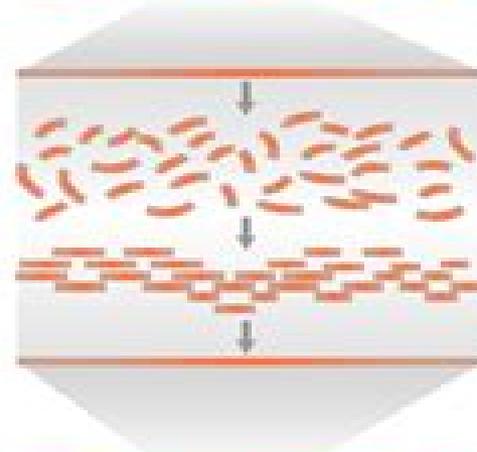
Break genome into large fragments and insert into clones



Order clones



Break individual clones into small pieces



Generate thousands of sequence reads and assemble sequence of clone



Assemble sequences of overlapping clones to establish reference sequence



Reference Sequence

Generating a Person's Genome Sequence (e.g., Circa ~2016)



Genomic DNA

Break genome into small pieces



Generate millions of sequence reads

... TATSCGATGCGTATTTTCGTAAA ...

Align sequence reads to established reference sequence



Reference Sequence

Deduce starting sequence and identify differences from reference sequence



Understanding The Genome

Xiang Xie



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Understanding The Genome :

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