

# Next Generation Sequencing

## Genome Sequencing

Whole genome



Fragments



Reads  
x30x



**Coverage:** All genes and non-coding DNA  
**Accuracy:** Low  
**Time:** Longest turnaround time  
**Cost:** Most expensive  
**Depth:** >30X

## Exome Sequencing

Exon 1 ... Exon N



Fragments



Reads  
x50-100x



**Coverage:** Entire exome (20-25k genes)  
**Accuracy:** Good  
**Time:** Long turnaround time  
**Cost:** Cost-effective  
**Depth:** >50-100X

## Targeted Gene Panel

Gene 1 Gene 2 ... Gene N



Fragments



Reads  
x500x



**Coverage:** 10-500 genes  
**Accuracy:** High  
**Time:** Rapid turnaround time (few days)  
**Cost:** Most cost-effective  
**Depth:** >500X

# Next Generation Sequencing Data Analysis

**VM Jensen**

## **Next Generation Sequencing Data Analysis:**

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