Initial findings of the

PERSONAL GENOME PROJECT CANADA

healthy people had their genome sequenced

95%

had rare recessive mutations, which could be passed on to children 25%

had variants linked with diseases 23%

had variants indicating risk of severe drug allergy

SHRINKING COST OF WHOLE GENOME SEQUENCING

2007 **\$100000** 2017 **\$1000** 2 **\$100**



There is a worldwide effort to put genomic sequencing data into the public realm.



Genomic sequencing has the potential to predict disease and inform health decisions.

What is whole genome sequencing?

Whole genome sequencing: identify all 3 billion+ nucleotide pairs that make

Variants: different versions of a known sequence of nucleotides, which can be benign, pathogenic (e.g. cystic fibrosis or breast cancer) or of unknown significance



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