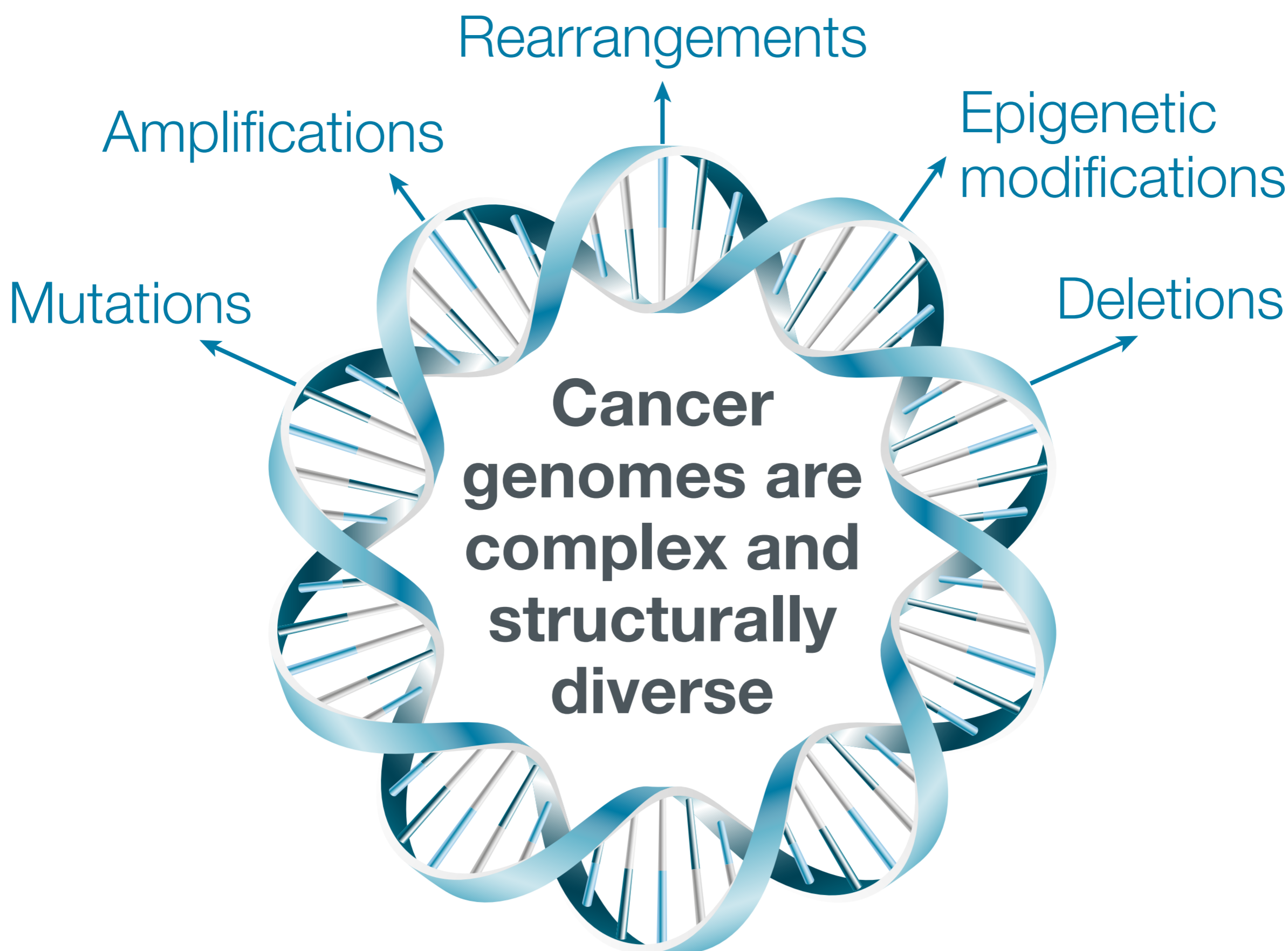


Cancer research



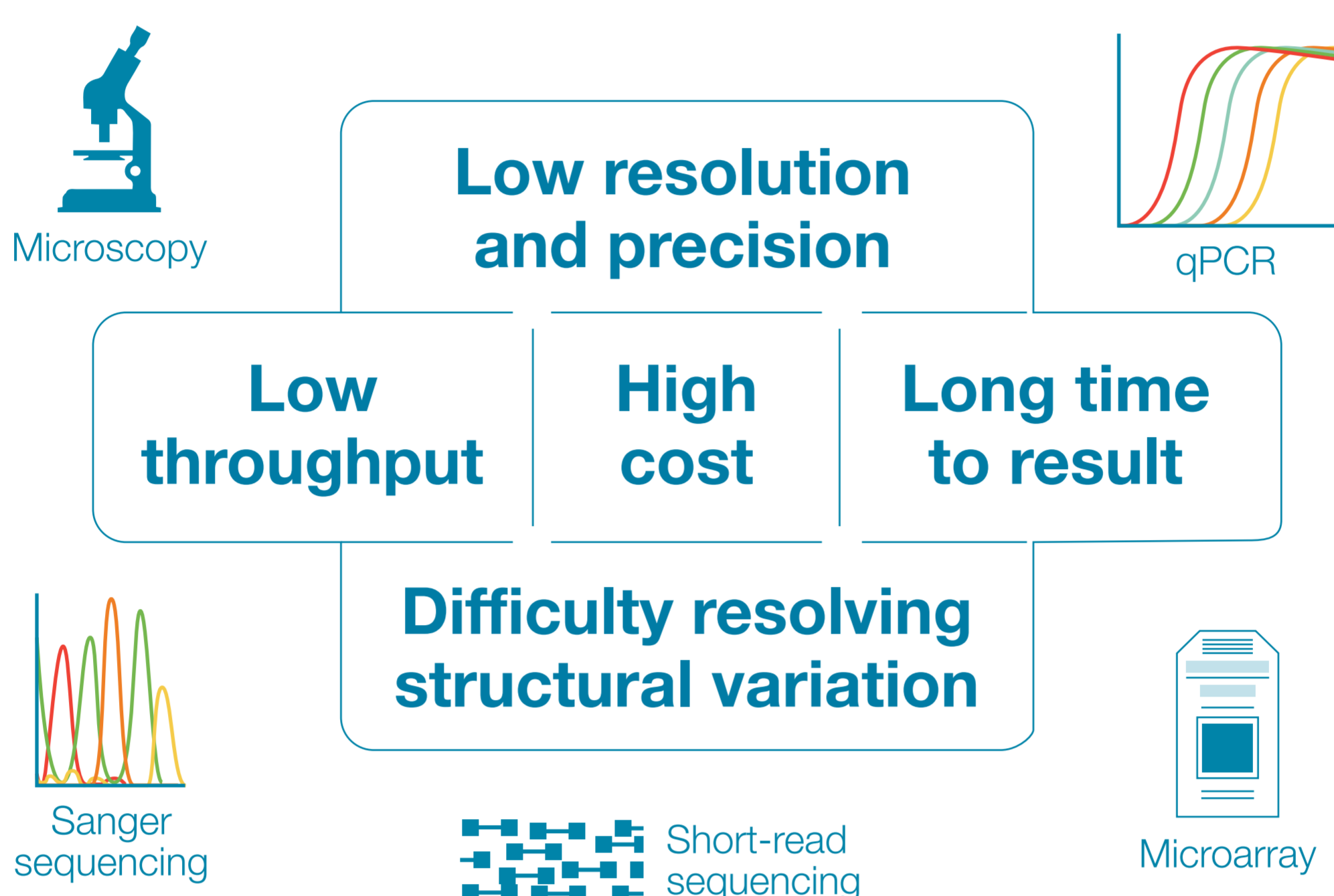
90%

of CML patients have the *BCR-ABL 1* fusion¹

>400

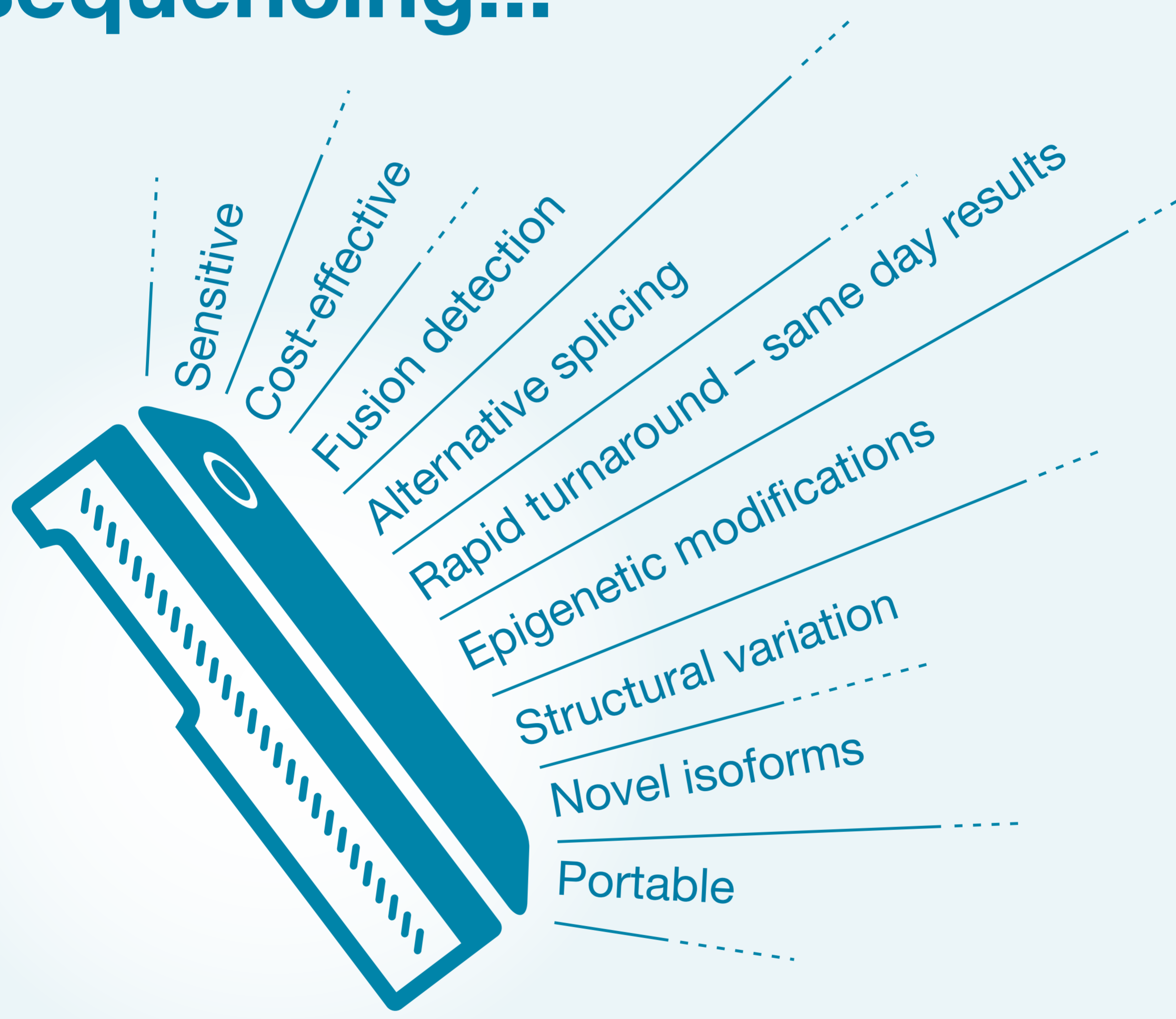
human genes somatically mutated and implicated in cancer²

Methods typically used to investigate cancer genomes can be limited

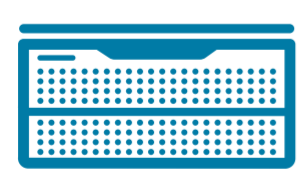


Detect a greater range of genomic variation, in a single run, with

long-read nanopore sequencing...

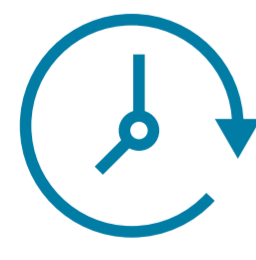


Nanopore sequencing also provides...



Scalability

From portable MinION™ to high-yield, high-throughput PromethION™



Real-time analysis

Immediate access to results and sequence until sufficient data are generated



Read length equal to fragment length

Obtain full-length transcripts, perform accurate transcript and genome assembly, and analyse phasing



Easy, rapid prep

Streamlined library prep in just 10 minutes (gDNA) from as little as 1 ng input (PCR-cDNA)

“
Nanopore sequencing allows same-day detection of structural variants, point mutations, and methylation profiling using a single device with negligible capital cost.
Euskirchen *et al.*³”

MinION

GridION_{x5}

PromethION

Download the white paper at nanoporetech.com

1. X. An *et al.* 2010 Leukemia Research. DOI: 10.1016/j.leukres.2010.04.016

2. P.J. Stephens *et al.* 2009. Nature. DOI: https://doi.org/10.1038/nature08645

3. P. Euskirchen *et al.* 2017. Acta Neuropathol. DOI: 10.1007/s00401-017-1743-5