

DIFFERENCE IN GENETIC SUSCEPTIBILITY TO CANCERS AMONG ASIANS AND CAUCASIANS

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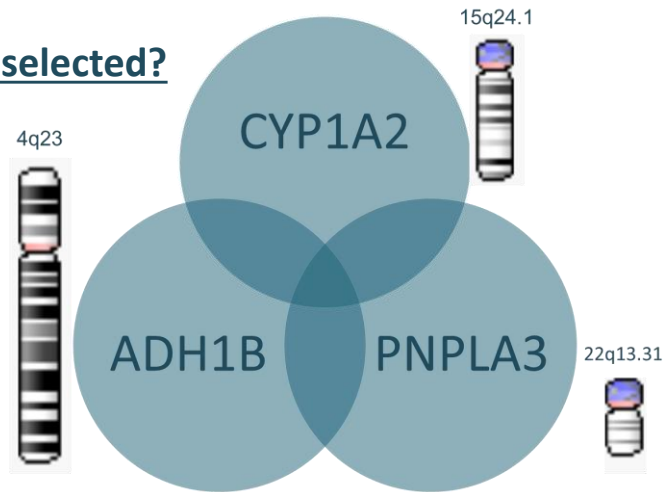
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What the findings show?

There are three well-identified polymorphisms in relation to the difference in cancer susceptibility between Asians and Caucasians:

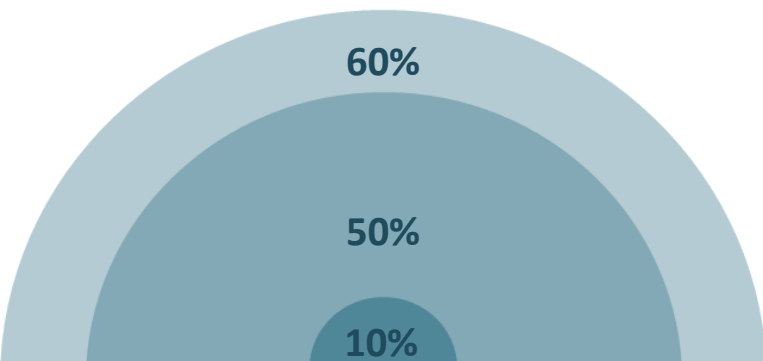
- **CYP1A2 rs762551** and **PNPLA3 rs738409** polymorphisms are not significantly related to cancer risks among Asians, but are more likely to be at high risk in Caucasians.
- **ADH1B rs1229984** polymorphism may be more cancerous in Asians than Caucasians.

Which genes selected?



Why Asia matters?

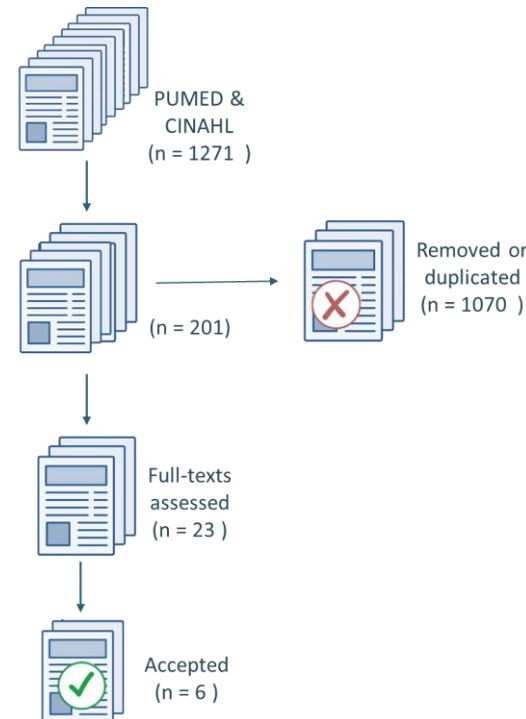
● %GWAS data ● %Cancer cases (2020) ● %Population



What we aim to examine?

Difference in genetic susceptibility to cancers among Asians and Caucasians

How data collected?



FUTURE RESEARCH NEEDS

More large-scale studies on Asians are necessary to fill an existing gap of diversity in genetic research.

References:

1. Sung, H. et al. (2021) *Ca Cancer J Clin*;71:209–249
2. Sirugo G. et al. (2019) *Cell*;177(1):26-31.
3. Genome Data Viewer: <https://www.ncbi.nlm.nih.gov>