

Questions to be addressed using proof-of-concept software

1. Genetic condition protects from a disease

Sometimes a condition that causes adverse health effects also helps protect against other diseases. For example, the sickle cell trait offers some protection against malaria infection – heterozygous carriers of the sickle cell trait have a slight survival advantage in published studies.

https://www.cdc.gov/malaria/about/biology/sickle_cell.html

<https://www.newscientist.com/article/dn20450-how-sickle-cell-carriers-fend-off-malaria/>

For each of the diseases listed below, list which other genetic conditions observed in the human population might offer protection AND WHY. Please also provide a confidence for each assertion.

[List of diseases]