

Why do hereditary diseases stubbornly stay in human gene pool?

Some diseases are hereditary that are passed on to next generation. If a person is suffering from diseases like Alzheimer's or diabetes then it is very likely that his next generation will suffer from the same disease...In a new study, scientists have decoded that why such high-risk gene do not get out by natural selection during evolution.

Researchers explained that the same process which helps us in protecting against pathogens, also help the occurrence of mutations in our genome that predispose us to hereditary diseases.

Balancing selection is the process of exclusion of harmful genes through natural selection during evolution...Scientists were skeptical if balancing selection is leading to conservation of harmful gene variants. Study authors then conducted computer simulations to confirm it.

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Since human genes have evolved continuously to adapt new pathogens, it has resulted in the diversity of our immune genes[, which]...protects us from pathogens but...also...protects some harmful gene variants. It is the price we pay for the genetic diversity which is essential for our survival.

The GLP aggregated and excerpted this blog/article to reflect the diversity of news, opinion and analysis. Read full, original post: [Here's why we cannot prevent hereditary disease from passing to next generation](#)