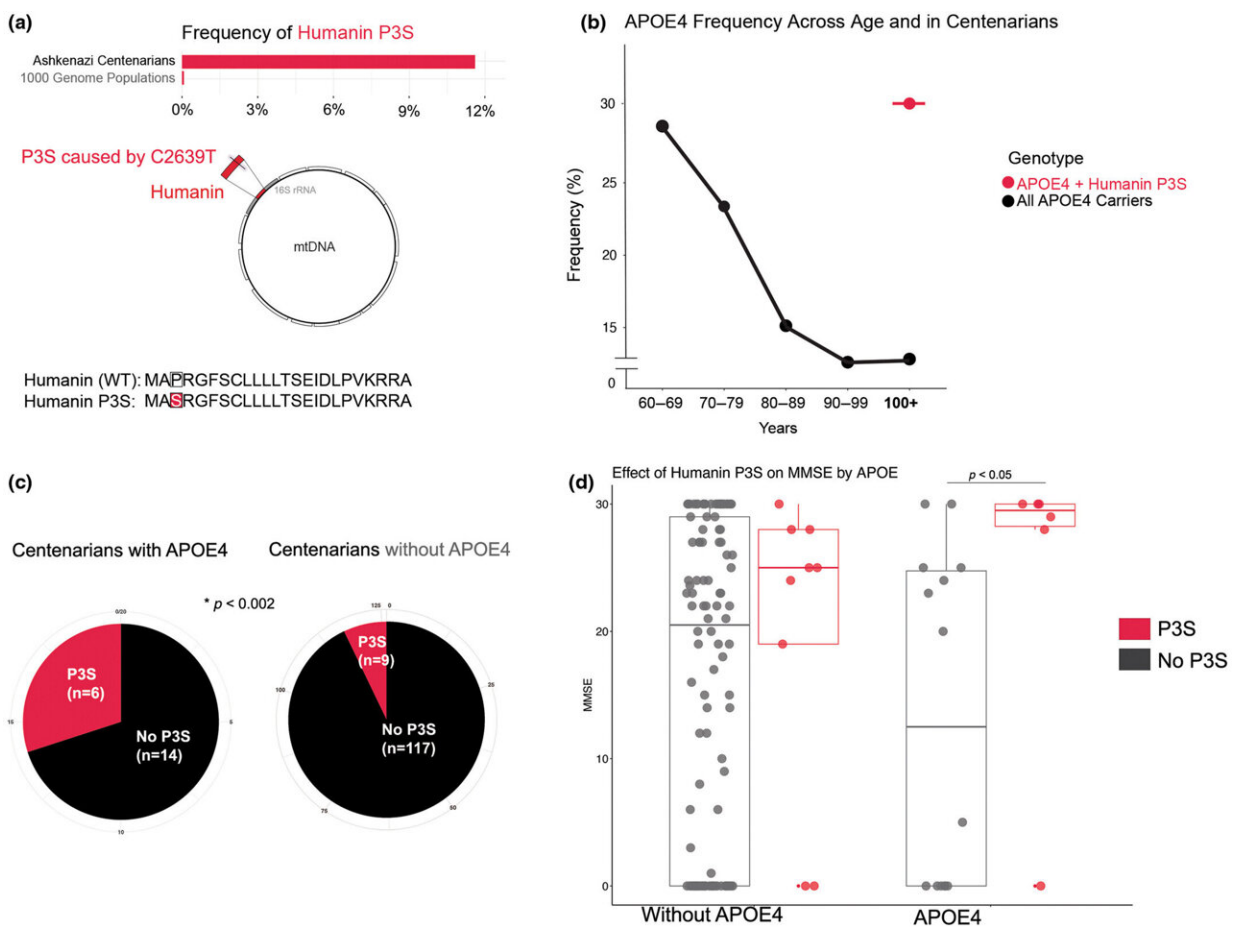


Newly discovered beneficial mutation in mitochondrial DNA seems to help Alzheimer's gene carriers live longer

March 25 2024



The humanin variant P3S is enriched in *APOE4* centenarians. (a) Mitochondrial genomic location of the humanin smORF and the P3S mutation. The frequency of P3S is below the location schematic. Below the frequency is the amino acid sequence of humanin and the 3rd residue change caused by P3S; $n = 146$. (b)

APOE4 frequency as a function of age in the Albert Einstein Cohort (black line). The frequency of humanin P3S at age 100 in *APOE4* was 30% (pink highlighted dot); $n = 1139$. (c) Pie graph illustrating enrichment of humanin P3S in *APOE4* centenarians (p

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