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The genetics of human longevity: an intricacy of genes, environment, culture and microbiome

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HIGHLIGHTS

- Longevity is a highly plastic trait, a remodelling process comprising modification of internal and external stimuli.
- Genetic contribution to longevity underlies half a hundred of genes associated with long lifespan in different populations
- Lifestyle changes, social and cultural factors can account for survival differences among individuals.
- Microbioma is an example of complex interaction organism-environment
- New approaches analysing gene-environment and gene-gene interactions can help us to understand interplays acting in determining the chance to survive at extreme ages

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