



## Public Perception, Trust and Ethical Challenges

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### BACKGROUND

Genomic research plays an increasingly important role in modern medicine; however, despite its growing relevance, many people are only vaguely aware of its applications in everyday medical practice. Instead, it is often associated primarily with controversial topics such as gene editing or cloning, which can distort the overall perception of the scope and benefits of genomic research.

### METHODOLOGY

**Method:** Online sample-survey

**Sample size:** 128 Persons

**Statistical analysis:**

- Descriptive statistics
- Chi-square ( $\chi^2$ ) test



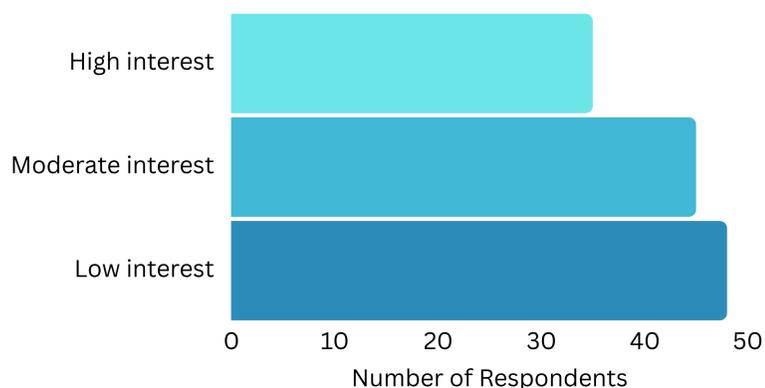
#### Survey content

- Trust in science, medicine and data protection
- Ethical concerns and interest in genomic research
- Acceptance of genomic applications and willingness to provide genomic data

### RESULT

#### Positive Perception but Low Personal Interest

Despite this positive perception, little personal interest in the topic was reported by most participants.



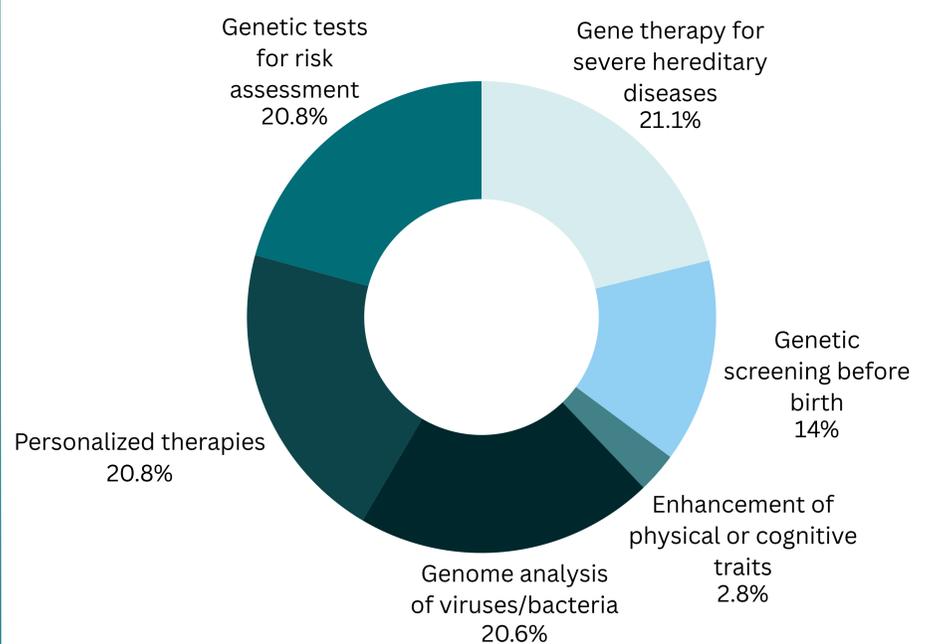
#### Statistical analysis ( $\chi^2$ test):

There was a high numerical association between:

- The level of information and trust and the willingness to provide genomic data for research and medical purposes.

But the finding was not statistically significant ( $p=0.3$ ), possibly due to limited statistical power.

#### Perception of acceptable vs. unacceptable genomic practices



Public acceptance is highest for medical and preventive genomic applications, while enhancement-related uses are largely rejected.

### CONCLUSION

Genomic research is generally perceived positively, however, ethical concerns and low personal interest persist. Information and trust significantly influence acceptance and willingness to share genomic data. In addition, there are discussions about which applications of genomic research are ethically acceptable.

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