

The Co-evolution of Genes and Culture

In humans, the *AMY1* gene on chromosome 1 produces salivary amylase. Humans are diploid organisms, meaning that, except for the genes on the X and Y chromosomes, they have two copies of most genes—one copy inherited from each parent. However, genetic studies show that people can have anywhere from two to 15 diploid copies of the *AMY1* gene on each chromosome 1, suggesting that the gene has been duplicated during human evolution. Why would this be?

Researcher George Perry and his colleagues hypothesized that as some groups of people started consuming more starch, individuals with more copies of the *AMY1* gene would have had a survival advantage. It follows that people living in populations with starch-rich diets would have more copies of the *AMY1* gene than people in populations that don't eat a lot of starch-rich foods (G. H. Perry et al., *Nature Genet.* 2007).

QUESTIONS

1. List the enzymes involved in starch digestion, where they work, and what they do.

2. Name the gene that produces salivary amylase. How many copies of the gene do humans have?

3. The researchers hypothesized that increased consumption of starch-rich foods during human evolutionary history gave individuals with multiple copies of the salivary amylase gene an "advantage." In this context, what does advantage mean?

To test their hypothesis, Perry and colleagues analyzed DNA collected from two groups. The first group consisted of populations that have historically consumed a diet rich in protein and low in starch, such as hunter-gatherers living in tropical rainforests or near the Arctic Circle. The other group consisted of populations from agricultural societies and hunter-gatherers living in arid environments, which traditionally eat high-starch foods. The researchers measured the number of copies of the *AMY1* gene in individuals from these different populations. In this activity, you will analyze some of the data collected by Perry and colleagues.

MATERIALS

- Scientific calculator and/or a computer with a spreadsheet program like Excel
- Graph paper, pencils, and a ruler if not using a spreadsheet program

Got Lactase Lesson Answers

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Got Lactase Lesson Answers:

Blindspot Mahzarin R. Banaji, Anthony G. Greenwald, 2016-08-16 Accessible and authoritative While we may not have much power to eradicate our own prejudices we can counteract them The first step is to turn a hidden bias into a visible one What if we are not the magnanimous people we think we are The Washington Post I know my own mind I am able to assess others in a fair and accurate way These self perceptions are challenged by leading psychologists Mahzarin R Banaji and Anthony G Greenwald as they explore the hidden biases we all carry from a lifetime of exposure to cultural attitudes about age gender race ethnicity religion social class sexuality disability status and nationality Blindspot is the authors metaphor for the portion of the mind that houses hidden biases Writing with simplicity and verve Banaji and Greenwald question the extent to which our perceptions of social groups without our awareness or conscious control shape our likes and dislikes and our judgments about people's character abilities and potential In Blindspot the authors reveal hidden biases based on their experience with the Implicit Association Test a method that has revolutionized the way scientists learn about the human mind and that gives us a glimpse into what lies within the metaphoric blindspot The title's good people are those of us who strive to align our behavior with our intentions The aim of Blindspot is to explain the science in plain enough language to help well intentioned people achieve that alignment By gaining awareness we can adapt beliefs and behavior and outsmart the machine in our heads so we can be fairer to those around us Venturing into this book is an invitation to understand our own minds Brilliant authoritative and utterly accessible Blindspot is a book that will challenge and change readers for years to come Praise for Blindspot Conversational easy to read and best of all it has the potential at least to change the way you think about yourself Leonard Mlodinow The New York Review of Books Banaji and Greenwald deserve a major award for writing such a lively and engaging book that conveys an important message Mental processes that we are not aware of can affect what we think and what we do Blindspot is one of the most illuminating books ever written on this topic Elizabeth F Loftus PhD distinguished professor University of California Irvine past president Association for Psychological Science author of Eyewitness Testimony Horgeneral (English) Şenol ONAY, 2025-03-06 **2025-26 CTET Primary Level Class I-V Solved Papers** YCT Expert Team , 2025 26 CTET Primary Level Class I V Solved Papers 816 995 E This book covers Child Development and Pedagogy Language I Language II Math and Environmental Studies and contains previous solved papers **Lactase gene expression** Edmond Henri Herman Maria Rings, 1994

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