

Ghost in Your Genes

PROGRAM OVERVIEW

NOVA explores how the epigenome—the body's complex chemical network that controls gene expression—plays a role in human biological destiny.

The program:

- notes that, after mapping the human genome, researchers wondered how so few genes could account for so much diversity among the species.
- recounts how one scientist determined how the deletion of a key sequence of DNA on human chromosome 15 could lead to two different syndromes depending on whether the deletion originated from the mother or the father.
- explains that this was the first human evidence that something other than genes themselves could determine how genes are expressed.
- provides an animation of two ways that scientists think the epigenome works to turn genes on and off.
- cites differentiation as an example of the epigenome at work—during development, cells switch on or off to differentiate cell function; as the cells divide they retain a memory of their cell type.
- notes that while the epigenome is normally incredibly stable, epigenetic switches sometimes can be thrown and later lead to disease.
- looks at how the epigenetic profiles of two 66-year-old twins are very different from that of two 6-year-old twins, suggesting that epigenetic changes accumulate over time.
- presents several experiments with rats that reveal how the epigenome works in an animal model.
- reports how epigenetic changes may promote disease by silencing tumor suppressor genes or activating oncogenes.
- reviews a clinical trial in which half the patients recovered after being treated with a drug designed to remove chemical tags silencing tumor suppressor genes.
- presents the work of two scientists looking for an epigenetic influence on autism.
- reports on a review of generations of historical records from a remote Swedish village that suggests epigenetic changes may be passed down through the generations.



BEFORE WATCHING

1. Epigenetic effects employ the chemical mechanisms involved with DNA. As a class, review the following definitions: DNA, chromosome, and genome (see Key Terms on page 3). Use a model of DNA to have students identify the two strands that make up DNA, the sugar-phosphate backbone, the individual nucleotide bases, and the nucleotide base pairs.
2. Review the concept of gene expression with students. *What is it?* (Gene expression is the ability of a gene to produce a biologically active protein.) To help students understand this process, use the graphic on page 2 to guide them through the process of transcription and translation. Once you have reviewed the process with students, have them work in pairs to transcribe and translate a gene online at: learn.genetics.utah.edu/units/basics/transcribe

AFTER WATCHING

1. Discuss the concept of epigenetics. *What is it?* (Epigenetics is the study of the modifications to genes, such as by methylation, which do not involve changing the underlying DNA.) How does normal gene expression differ from epigenetic effects on the genome?
2. The program raises some social and ethical implications regarding epigenetic effects. While scientists still don't know exactly what affects the epigenome or how it may be passed down to future generations, if lifestyle choices or environmental effects are passed down, what would students consider changing about their current lifestyle for any potential offspring they may have? How certain would they need to be that their epigenome was being affected before they made the change?

Taping rights: Can be used up to one year after program is recorded off the air.

Nova Ghost In Your Genes Answer Key

Michael Hoelscher



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