

Part III – Regulation of Lactase Gene Expression in Eukaryotes

III.1 – Introduction to Gene Regulation and SNPs

Some students are lactose intolerant whereas others are not. This is due to the expression of an enzyme that is required to digest the disaccharide lactose.

Chris: I'm just blown away. I never thought that people could be different on that level. How come we're all generally healthy humans but some of us have a certain enzyme and others don't?

Xiao-Ma: Now I can tell you something I learned in my biology class. Good thing I was just studying that for my finals. Here's an excerpt from my lecture notes:

- Every cell in an organism has the same genetic material and each human has an almost identical genome.
- Individuals differ from each other in regions that are variants of each other.
- The most common genetic variant between individuals are single nucleotide polymorphisms (SNPs), which is a genetic difference of the DNA sequence in just a single base. There are millions of SNPs distinguishing individuals from each other.

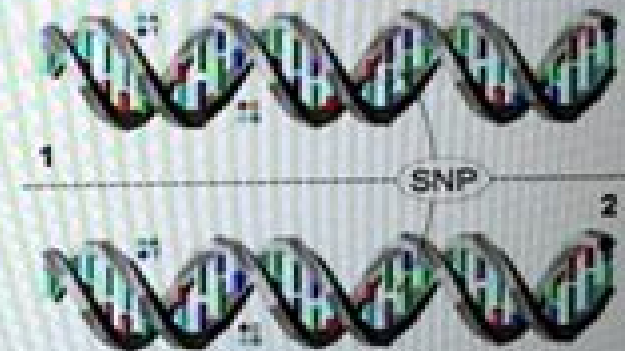


Figure 3. SNP.

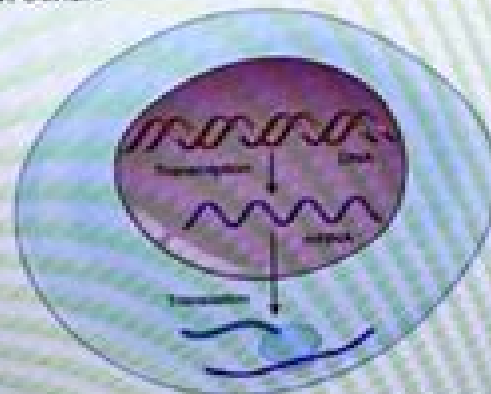


Figure 4. Transcription-translation summary.

Eukaryotic cells are different from each other by only expressing (producing, synthesizing, making) proteins from certain genes of the genome. The expression of eukaryotic genes can be regulated at any step along the pathway from DNA to protein.

Credit: Figure 3 by David Sadava, et al. - <https://openstax.org/books/zoology-101/pages/1-1-1-introduction-to-genetics>. Figure 4 from OpenStax Anatomy and Physiology, et al. - <https://openstax.org/books/anatomy-and-physiology/pages/1-1-1-introduction-to-anatomy-and-physiology>

Questions

1. How can the individual steps of this process be regulated to lead to higher or lower expression of a gene? (e.g., DNA methylation, histone modification, RNA editing, alternative splicing, miRNA)

Lactase Regulation Eukaryotes

Rachel S Tattersall



Lactase Regulation Eukaryotes:

Lactase Regulation Eukaryotes Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Lactase Regulation Eukaryotes**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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