

# Welcome to C.E. Smith Museum of Anthropology

You have been given a new genetic identity for the duration of your tour. Can you figure out who you are by using the mitochondrial haplotype numbers below, along with clues inside the museum?

## mtDNA Identity Card



Who are you?

What is your haplogroup?

What is your ancestral origin?

Your mitochondrial haplotype is:  
16069, 16093, 16126

Hints for your identity hunt:

- Look carefully at the mitochondrial sequence border and the people hanging from it in the European Room.
- Compare these with the blue haplomap located throughout the museum.

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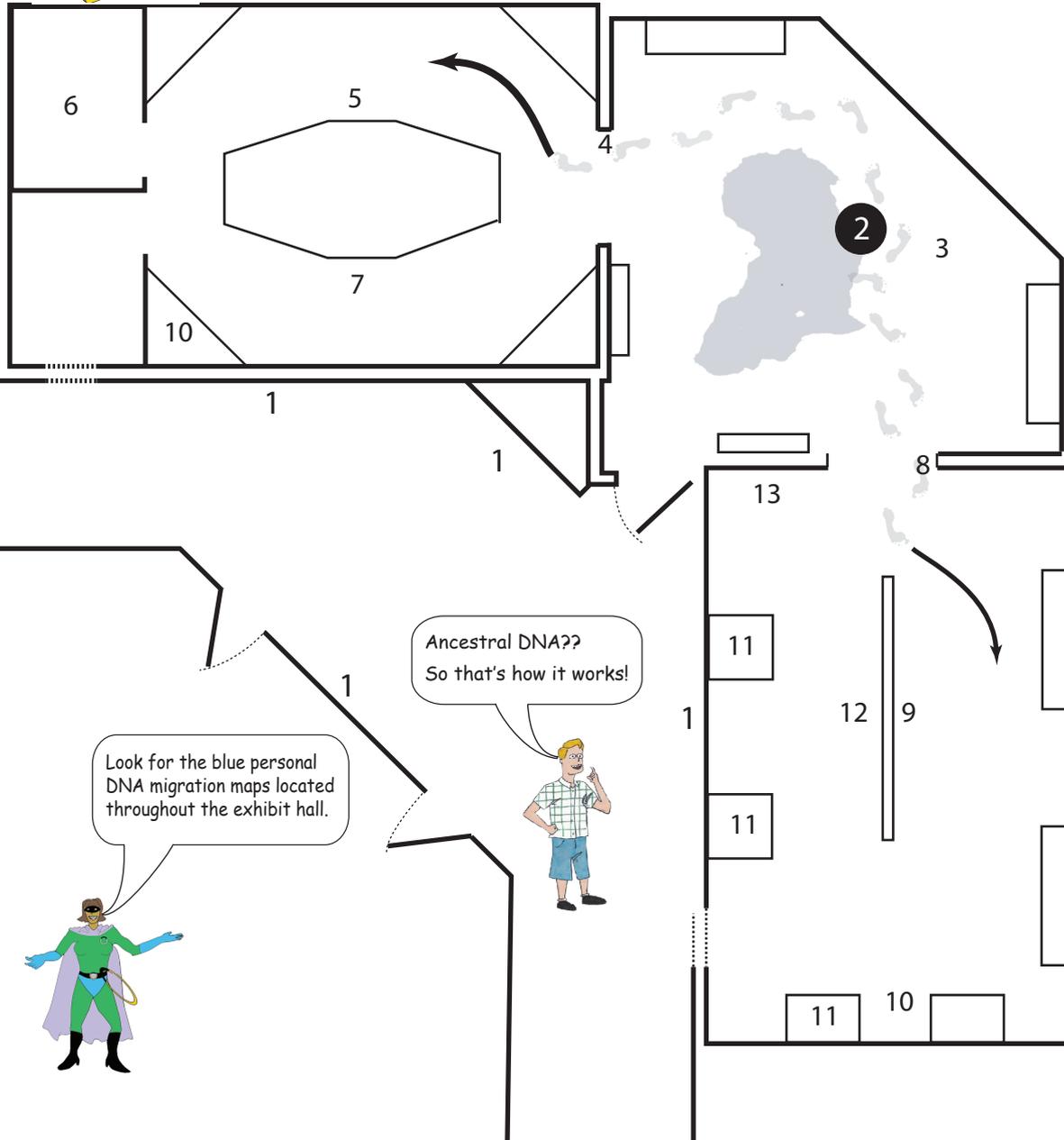
DNA: Cracking the Ancestor Code

Exhibit Guide

# Follow the genetic markers and travel the path of our ancestors' migrations across the earth in ***DNA: Cracking the Ancestor Code!***



Be sure to look carefully at the hanging ladies display in the European Room for clues about your mtDNA identity!



1. Familiarize yourself with the concepts of ancestral DNA in the outer hall displays. Also check your *mtDNA Identity Card* on the back of this guide.
2. At the podium use the mouse to click on one of the students on the large screen and select the personal DNA story you wish to hear.
3. Read an explanation of the Out of Africa journey and then follow the footprints into the European Room and the Asia/Americas Room.
4. *Haplogroups of Ice Age Europe*. Mitochondrial DNA displays on the outer wall; Y-chromosome DNA displays on the inner wall.
5. View the *Glacier TV* channel for bulletins of climatic and culture change during the European Upper Paleolithic period.
6. Relax in the *Ice Age Theater* and view videos about ancestral DNA studies.
7. View the *Thaw TV* channel for more bulletins about climate and culture change during the European Mesolithic and Neolithic periods.
8. *Haplogroups of Asia and the Americas*.
9. Place a pin on the location(s) of your family's geographic origins.
10. *Haplogroup Identity Station*. Have you figured out who you are and what your haplogroup is? Click your haplotype for an audio-visual answer.
11. Displays of haplogroups of the Americas.
12. Test your knowledge at the *Can't Tell A Gene By It's Cover* activity board.
13. Your guided journey ends here at Angel Falls.