

CF BEHIND THE SCENES WITH EUGENE

CAUSES AND IMPACTS

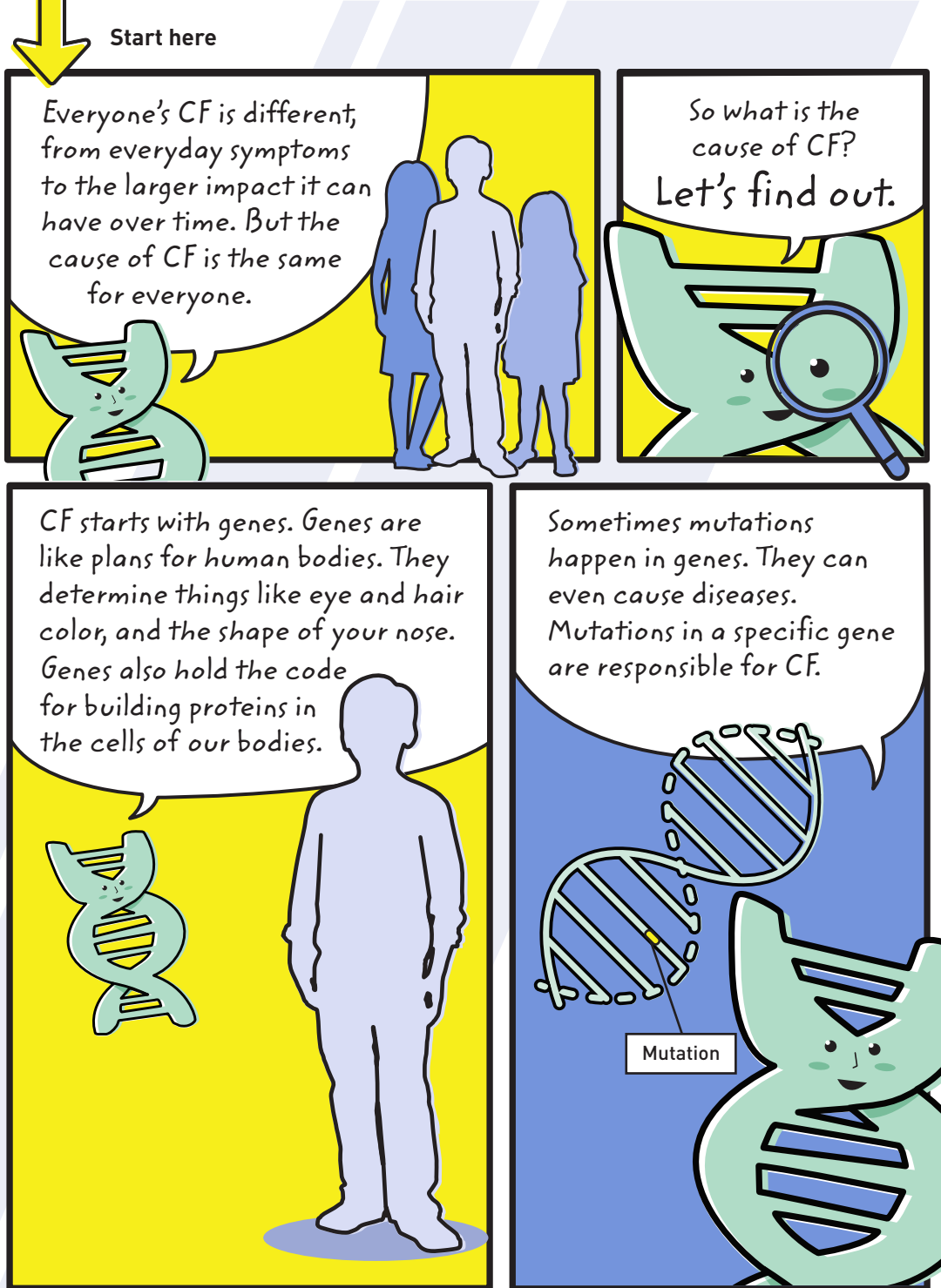
Hi there!

Welcome to CF Behind the Scenes with me, Eugene. I'm here to share some of my knowledge of cystic fibrosis, better known as CF. I'm going to take a look at what happens inside the body that causes CF.

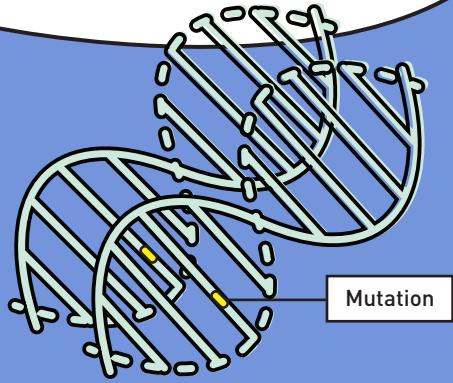
Let's go!



**Eugene
THE GENE**



Each gene has two copies. CF is caused by having two mutations in the CFTR gene, one in each copy.



What is CFTR, you ask?
Let's look it up!



CFTR stands for cystic fibrosis transmembrane conductance regulator.



Thank goodness for abbreviations, right?

Our bodies use genes to build proteins, but what do proteins do?

Within the cells of our bodies, proteins work to do a bunch of different jobs.



One type of protein is called a CFTR protein. The CFTR genes we talked about earlier code for CFTR proteins.

In people with CF, CFTR proteins aren't built correctly. This is because of mutations in the CFTR gene. These mutations change how CFTR proteins are built in 2 different ways.

