Uncertain Genetic Test Results "Variants of Uncertain Significance"

What happens when we don't know if a change in a recipe (or gene) might change the final product?

Recipe 1

DNA Alphabet

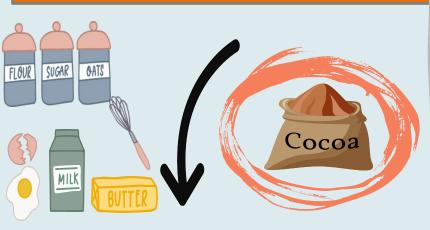
Letters to write out the recipes





Gene = Recipe

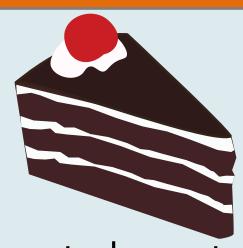
Following the recipe, we will use chocolate.





Chocolate Cake

Following this recipe that used chocolate, we baked a chocolate cake.



Recipe 2

ATG GGA GGC

DNA Alphabet

Letters to write out the recipes



Gene = Recipe

The "chocolate" in the recipe has been changed to "chokalate." We don't know what this word means.





Final Product???

Following this recipe that used "chokalate," we don't know yet what the final product would be.



The change in the recipe from chocolate to "chokalate" may have changed the cake that was baked, but we do not know for certain. A variant of uncertain significance (WS) acts the same way. When we see a change in our genes that has not been well studied, we cannot predict how this change might affect a person. Over time, a WS may eventually be better understood so doctors know more about how the change affects people.