

Cheek Cell DNA Extraction

Capture Your Genes in a Bottle!

Introduction

What is DNA and what does it do?

Deoxyribonucleic acid (DNA) is a molecule present in all living things, including bacteria, plants, and animals. DNA carries genetic information that is inherited, or passed down from parents to offspring. It is responsible for determining a person's hair, eye, and skin color, facial features, complexion, height, blood type, and just about everything else that makes an individual unique. But it also contains all the information about your body that is the same in all human beings. In other words, your DNA is like a blueprint for your entire physical growth and development. Your DNA blueprint is a combination of half of your mother's and half of your father's DNA, which is why you have some features from each of your parents.

DNA contains four chemical units, referred to by the first letters in their names: **A** (adenine), **G** (guanine), **T** (thymine), and **C** (cytosine). These four DNA "letters" make up a code for genetic information. The letters of the DNA code are similar to the letters of our alphabet. The 26 letters in our English alphabet spell words, which can be arranged in infinite ways to create messages and information. Similarly, the 4 chemical letters of DNA are organized to make messages, called **genes**, that can be understood by cells. These genes contain the information to make **proteins**, which are responsible for almost all of your body's structures and functions. A gene is like a recipe, since it contains all the information needed to make a protein.

Your DNA sequence is the particular arrangement or order of the chemical letters within your complete DNA collection, or **genome**. Scientists have determined that human DNA sequences are 99.9% identical. It is the <0.1% sequence variation from person to person that makes each of us unique. In other words, what makes you different from your classmate is an occasional difference in the letters of your genomes.

Where is DNA found?

The basic units of an organism's body are cells — they make up all of your tissues and organs (e.g., muscles, brain, digestive system, skin, glands, etc.) Cells are compartments with membranes, made of protein and lipids (fats) that keep them separate from other cells. Within cells are further compartments with specialized functions. One compartment, called the **nucleus**, is like the cell's control headquarters and contains the DNA molecules, which are the master instructions for the functions of the cell. The DNA is organized into 46 tightly coiled structures called chromosomes. Actually, it is more accurate to say that there are 23 **PAIRS** of chromosomes in each cell, 23 are from your mother and a matching set of 23 are from your father.

Cheek Cell Dna Extraction Capture Your Genes In A Bottle

Brendan G. Carr



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