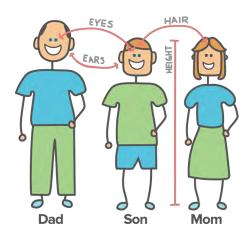
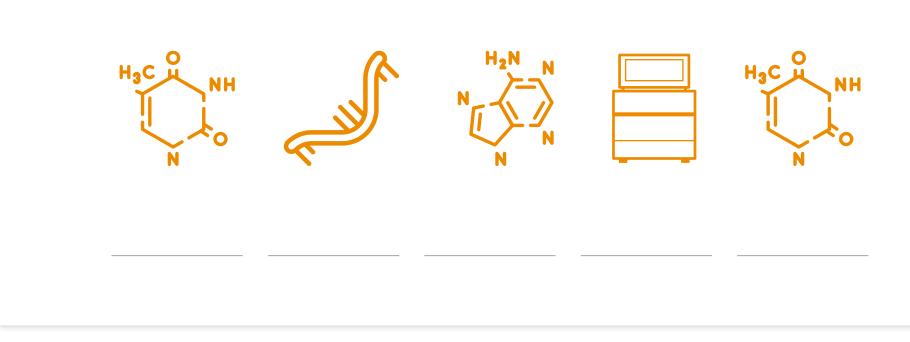


A \_\_\_\_\_\_ is a specific characteristic of an individual determined by genes and/or influenced by environmental factors. Some examples include your eye color, your hair color, or height



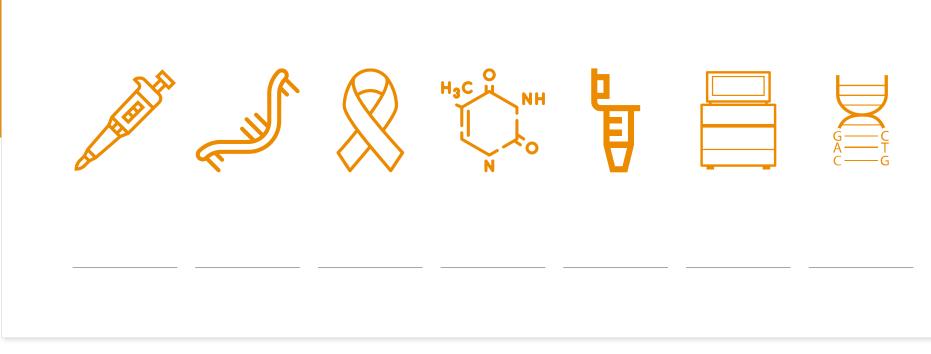


### illumina

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A \_\_\_\_\_\_ is a large, complex molecule that can be found in many parts of the body including muscle, bone, skin, and hair.





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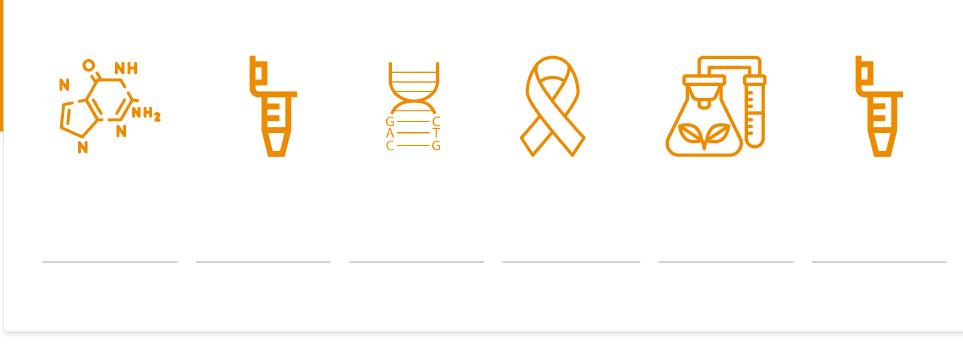
 $\underbrace{F}_{AC} \xrightarrow{O}_{NH} \xrightarrow{HN_2}_{NH} \xrightarrow{HN_2}_{N} \xrightarrow{O}_{N} \xrightarrow{O}_{N}$ 

is a membrane-enclosed organelle

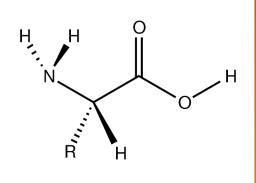
within a cell that contains chromosomes.

A \_\_\_\_\_\_ is the entire set of DNA instructions found within a cell. In humans, it consists of 23 pairs of chromosomes.



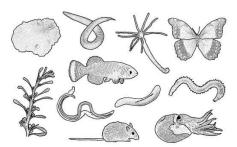


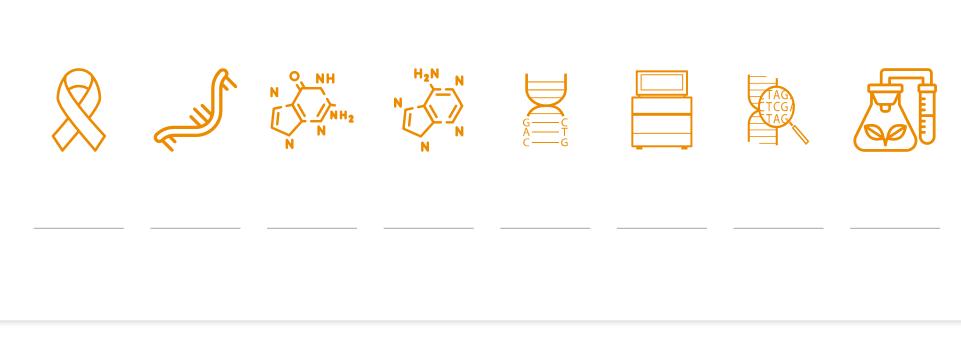
An \_\_\_\_\_\_ is the building block for proteins. There are 20 different kinds that can be created within the body or obtained through a person's diet.





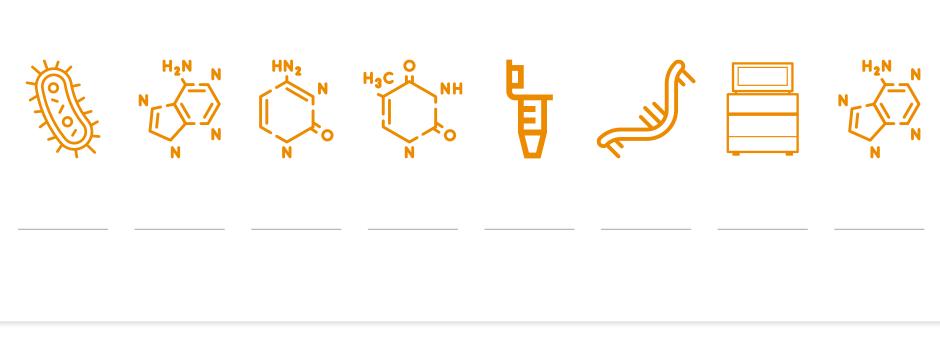
An \_\_\_\_\_\_ is any living system that functions as an individual. All of them are composed of cells and can be anything from a plant, animal, bird, insect, or microbe.





A \_\_\_\_\_ is a small single-celled organism. They can be found almost anywhere on Earth and are vital to the planet's ecosystems.



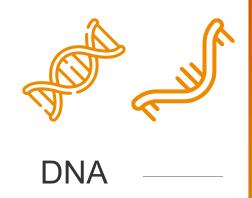


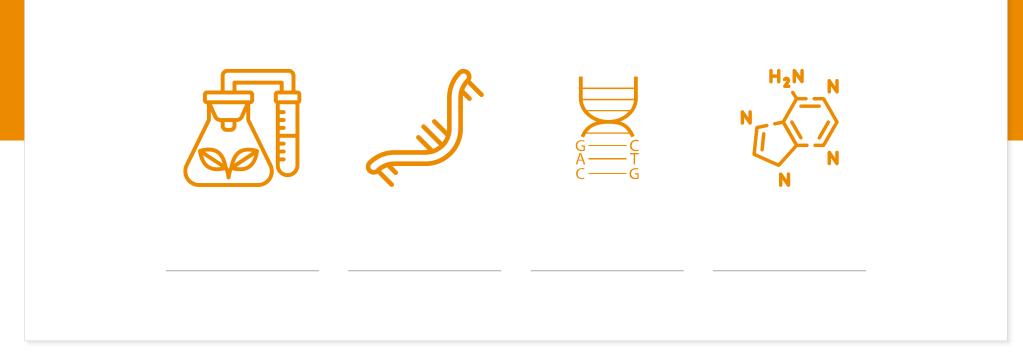
A \_\_\_\_\_\_ is also known as a polymerase chain reaction test, which can detect genetic material from a specific organism such as a virus.



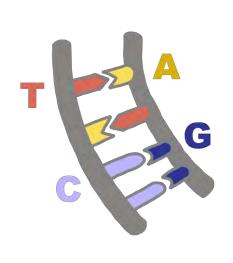


is genetic material that carries instructions for assembling amino acids, which tells your body how to make proteins.



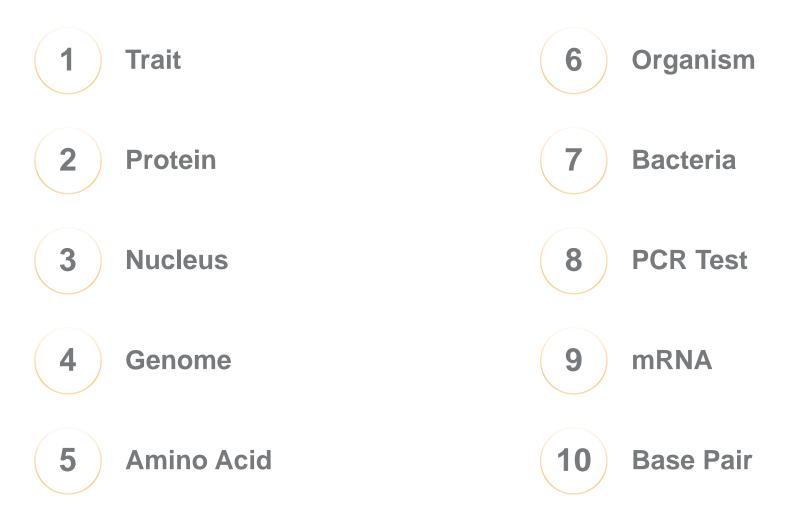


A \_\_\_\_\_\_ is a set of nucleobases that make up DNA and RNA. They are composed of adenine, thymine, guanine, and cytosine, which are considered the building blocks of life.

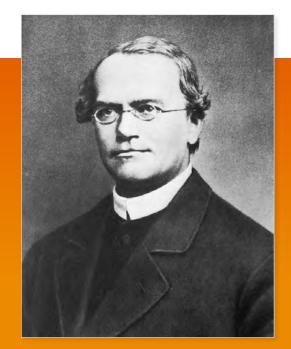


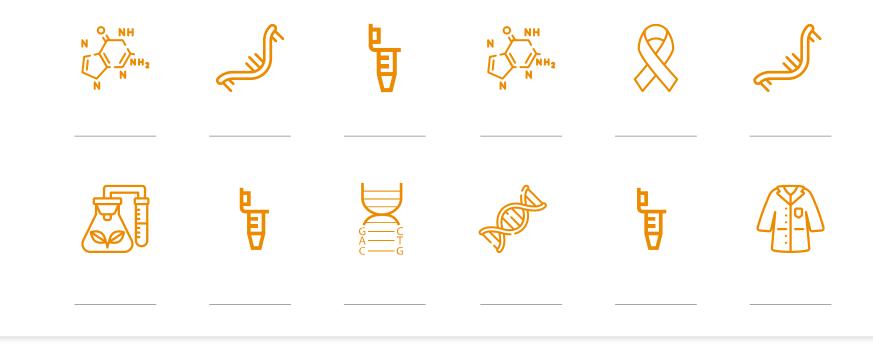


# Answer Key:

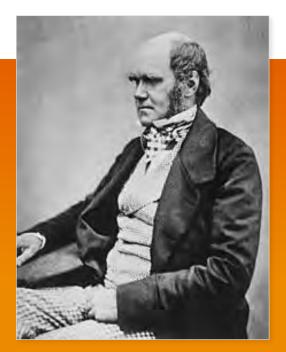


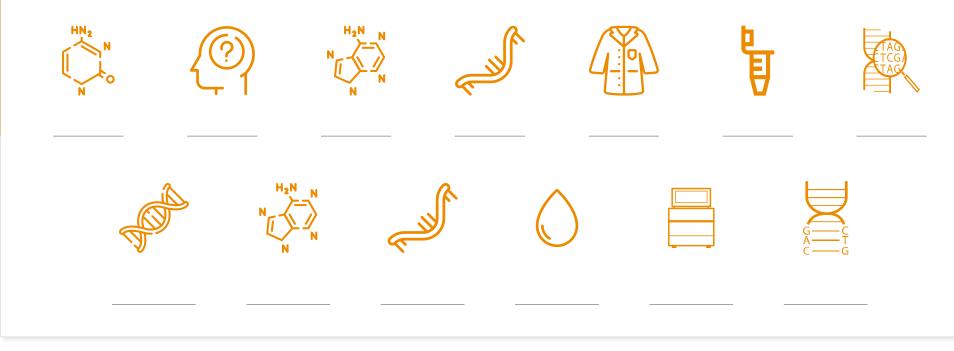
I am an Austrian scientist who studied pea plants to discover the laws of inheritance, or the passing of genetic traits from parents to offspring. I am also known as the "Father of Genetics".



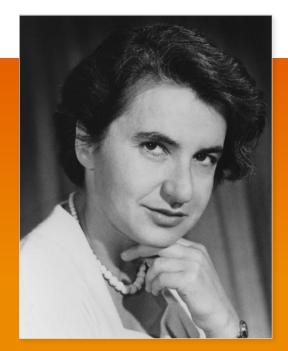


I am an English biologist who is best known for studying evolutionary biology, which studies the origin of life and how it adapts over time. I am also the author of a well-known book – **On the Origin of Species** that was published in 1859.





I am a British scientist best known for my contributions to the discovery of the molecular structure of deoxyribonucleic acid (DNA). My x-ray patterns of DNA molecules helped James Watson and Francis Crick to suggest the double-helix structure that is known today.

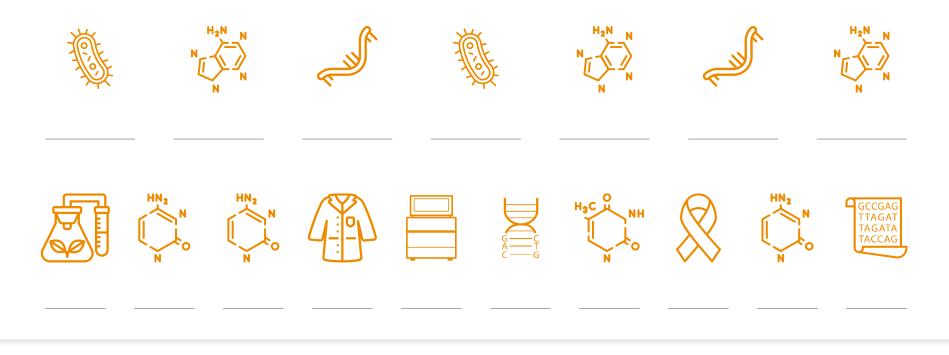






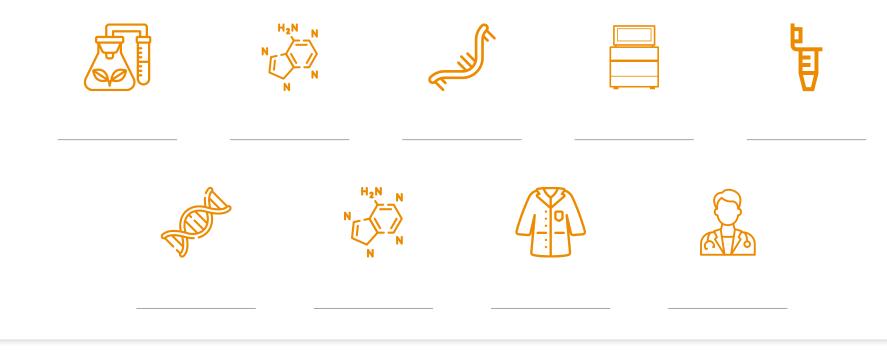
In 1944, I discovered that genes could change position within a chromosome also known as "jumping genes". I am the first woman to receive an unshared Nobel Prize in Physiology or Medicine.





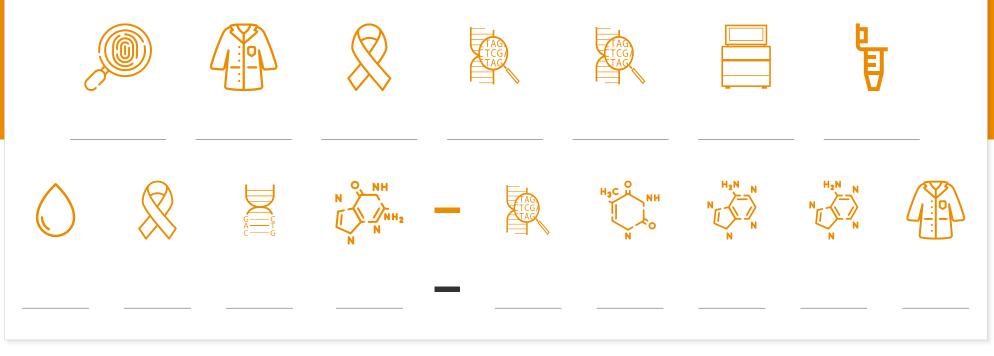
I am the first black woman to earn a PhD in chemistry in the United States. I helped uncover the structure of pyrimidines and purines. Some examples include cytosine, thymine, adenine, and guanine, which are the building blocks of DNA.



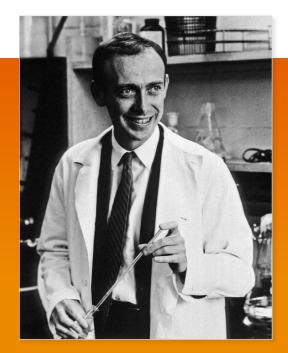


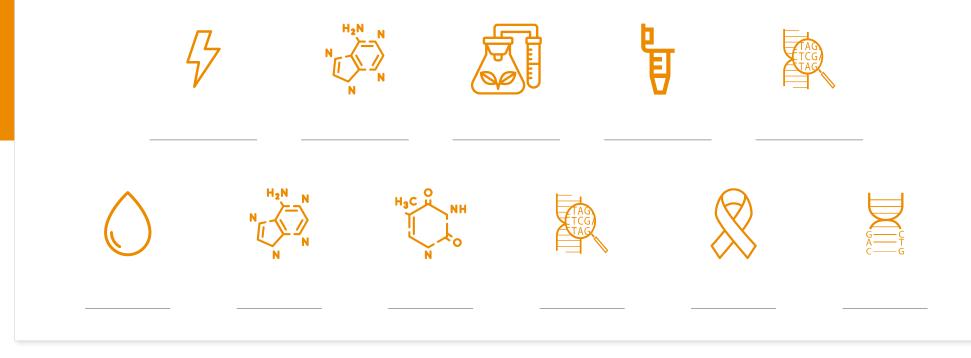
I am a Chinese-American virologist best known for discovering that human retroviruses can be carcinogenic, or able to cause cancer. I was the first scientist to clone human immunodeficiency virus (HIV) and my work helped show that HIV causes acquired immunodeficiency syndrome (AIDS).



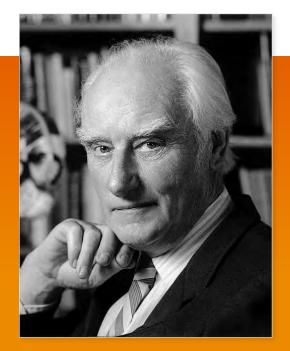


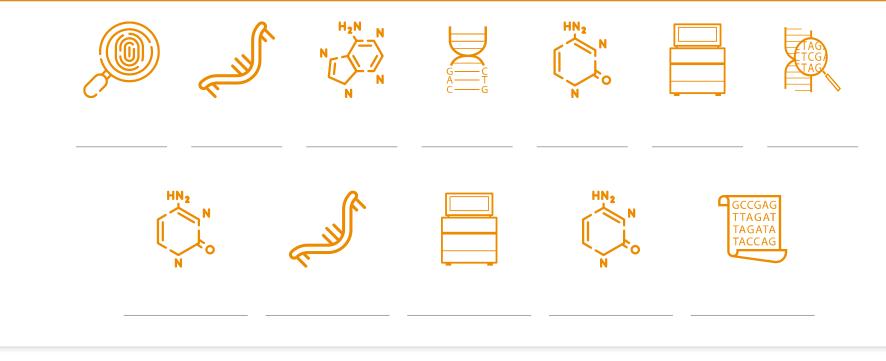
In 1953, I co-authored an academic paper proposing the double helix structure of the DNA molecule. I shared the 1962 Nobel Prize in Physiology or Medicine with Francis Crick and Maurice Wilkins.



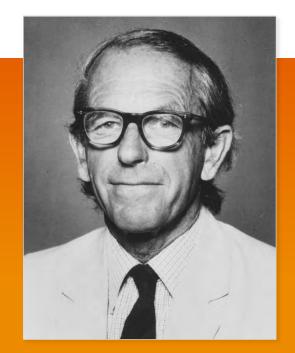


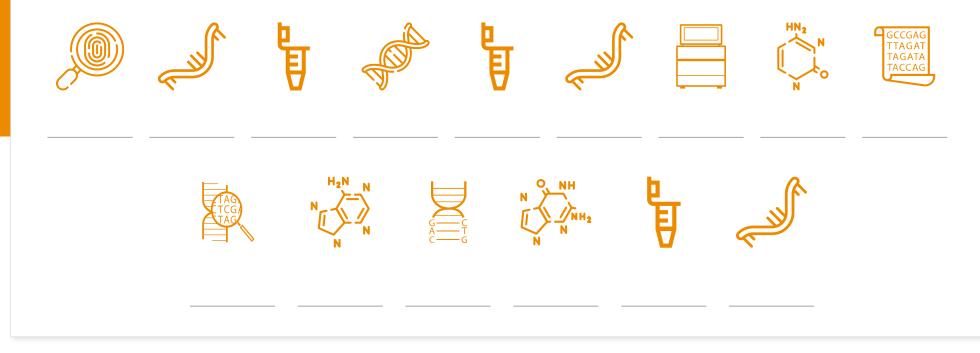
I am an English molecular biologist who helped identify the double helix structure of DNA. In 1953, I co-authored an academic paper proposing the double helix structure. This led me to share the 1962 Nobel Prize in Physiology or Medicine with James Watson and Maurice Wilkins.



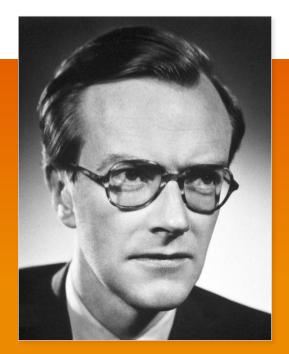


I am an English biochemist and a two-time Nobel prize winner. In 1958, I won the Nobel Prize in Chemistry for determining the structure of insulin. In 1980, I won the same prize for developing a method to identify the base sequence of nucleic acids.





I am a New Zealand born British biophysicist and am best known for producing the first clear x-ray images of DNA. I shared the 1962 Nobel Prize in Physiology or Medicine with Francis Crick and James Watson.





# Answer Key:

