

Biology

Oskar Blakstad126.4K reads

Biology Experiments

Biology research have provided great insights to the field and to the society by understanding the relationship between living organisms and nature.

Here are some examples of biology research and discoveries which was important to biology as a branch.

Many of the examples are from evolutionary biology, but we are planning to add more biology experiments later on.



The banner features a white laboratory flask icon with a flame above it, followed by the word "EXPLORABLE" in a bold, white, sans-serif font. Below this, the phrase "Quiz Time!" is written in a white, cursive script. The background is a solid orange color. At the bottom, there are three white-bordered boxes, each containing a different image and a quiz title. The first box shows a pair of red roller skates on a wooden deck, with the text "Quiz: Psychology 101 Part 2". The second box shows a fan of colorful pens, also with the text "Quiz: Psychology 101 Part 2". The third box shows a Ferris wheel at sunset, with the text "Quiz: Flags in Europe". To the right of these boxes is a white arrow pointing right with the text "See all quizzes =>".

Biology Experiments and Discoveries

[Law Of Segregation](#) [1] - The Mendel Pea Plant Experiment

Mendel noticed that certain characteristics appeared to be passed on from parents to offspring, in many species, and wondered why this was so. He tested his ideas, using pea plants.

[Darwin's Finches](#) [2] - How the Natural Selection Was Discovered

Darwin brought back many samples from the Galapagos, and thought that the finches found across the different islands making up the group, were all different species. Then he made a remarkable discovery.

[Industrial Melanism](#) [3] - How Human Contamination Evolved the Peppered Moth

The industrial revolution across Europe and North America, and the burning of coal, led to every surface, in

certain areas, being covered with black soot. So animals evolved to get camouflage from the contamination.

Red Queen Hypothesis [4] - The Evolutionary Arms Race between Prey and Predator

The basis for the entire theory is down to 'the evolutionary arms race', where prey and predator constantly evolve together to reach some sort of uneasy balance.

Transforming Principle [5] - Griffith's Experiment About Genetics

Long before DNA was known, Frederick Griffith, established that there was a transforming principle in bacterial genetics in a ground-breaking experiment. He postulated that information could somehow be transferred between different strains of bacteria.

Identical Twins Study [6] - Measuring Effects from Environment and Genetics

Identical twins studies has been used for a long time, to study the effects of environment and genetics on human development. Genetics and environmental factors contribute to intelligence, aggression or substance addictions are some subjects.

History of Biology

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Zoology

Basic Concepts

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Aspects of Zoology

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The Animals

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