

Biology Chapter 15-18 Notes

15-3 Darwin Presents His Case

- A. Publication of On the Origin of Species
- B. Inherited Variation and Artificial Selection
- C. Evolution by Natural Selection
 - 1. The Struggle for Existence
 - 2. Survival of the Fittest
 - 3. Descent With Modification
- D. Evidence of Evolution
 - 1. The Fossil Record
 - 2. Geographic Distribution of Living Species
 - 3. Homologous Body Structures
 - 4. Similarities in Embryology
- E. Summary of Darwin's Theory
- F. Evolutionary Theory Since Darwin

Publication of On the Origin of Species

- Darwin spent 5 years as the naturalist on The Beagle.
- When he returned to England he did not publish for over 25 years.
- Another naturalist gave Darwin the push to publish. His name was Alfred Russel Wallace.
- Darwin's book contained evidence for evolution and it described natural selection.

Inherited Variation and Artificial Selection

- Differences among individuals of a species are referred to as variation.
- Genetic variation is found among all species, whether domestic or wild.
- We use variation in artificial selection. It is selection by humans for breeding of useful traits from the natural variation among different organisms. It is also called selective breeding and produces organisms that look very different from their ancestors.

Evolution by Natural Selection

- Darwin's greatest contribution was developing a scientific hypothesis to explain how evolution occurs.
- He came up with several terms:
 1. Fitness- the ability of an individual to survive and reproduce in its specific environment.
 2. Adaptation- any inherited characteristic that increases an organism's chance of survival.
 3. Natural selection- survival of the fittest.

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Chapter 36 - 36.4 - Concept Check - Page 792: 2 Answer When fusicoccin activates proton pumps, they start the change in membrane potential which then leads guard cells to take up potassium ions.

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Chapter 36 - 36.5 - Concept Check - Page 795: 1 Answer Phloem sap is moved by a push from the positive pressure built up in living sieve tubes, while xylem sap is usually moved by a pull from the negative pressure which results from transpiration.

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