

Introduction to Evolutionary Biology: BIO 200

LECTURE 4 Notes

Darwin's Evidence

I. Darwin's Theory of Natural Selection

- Darwin's theory of natural selection
- Historical evidence supporting Darwin's theory.
- Modern evidence
- Implications of Darwin's theory
- Proof to support the implications.

II. Darwin's Hypothesis: Three Parts

- Diversity within the population
- Variations in reproductive success among individuals
- Transmission of variation to the next generation

III. Darwin's Hypothesis: Five Parts

- Differences between individuals
- Competition for survival due to overpopulation
- Survival of the fittest
- Transmission of genetic traits through reproduction
- Inheritance of traits contributing to survival and reproduction

IV. Grant and Grant

- Range of differences in head and beak size among medium ground finches
- 1977 La Nina event
- Prolonged dryness
- Drastic decrease in population
- Big and tough seeds persist.
- 1984/1985 El Nino
- Abnormally rainy
- Large number of small, delicate seeds present
- Decreased presence of big and tough seeds

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Puja Mehta



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