

Lecture Notes 1-21

1. Intro to zoology

- a. What is zoology? -The scientific study of animals
- b. How do we learn/study zoology?- use the scientific method, utilize what we already know from the laws of physics and chemistry
- c. What is an animal?
 - i. comprised of eukaryotic cells (membrane bound nucleus, and other organelles)
 - ii. heterotrophic (they have to consume living thing- plants and animals- to gain their nutrition)
 - iii. no cell wall
 - iv. follow the origin of animals to around 600 million years ago
- d. What is life? How is life defined?
 - i. Reproduction
 - ii. Descent with modification- common ancestor
 1. Identity and continuity
 2. Life giving rise to life with some modifications

2. General Properties of Living Systems

- a. Chemical uniqueness: Micro. To macromolecules
 - i. Nucleic acids
 - ii. Proteins
 - iii. Carbohydrates
 - iv. Lipids
 - v. Uniqueness
- b. Complex, hierarchical organization
 - i. Living vs. nonliving matter
 1. Macromolecules → cells → tissues, organs, organ systems → organisms → populations → species
 - ii. Emergence, emergent properties- the appearance of a new property at any given level (from above)
 - iii. Freedom to interact between the various levels
- c. Reproduction " "all levels of the hierarchy" "
 - i. Macromolecules- nucleic acids
 - ii. Cells- dividing and reproducing
 - iii. Organisms- giving rise to more organisms
 - iv. Populations- can be split apart and evolve different, change occurs separately
- d. A genetic program- fidelity of inheritance
 - i. Genetic code- DNA (Watson and Crick) to protein
- e. Metabolism
 - i. Digestion
 - ii. Energy acquisition- respiration
 - iii. Molecular synthesis
 - iv. Both catabolic (breaking down) and anabolic (building up) reactions
 - v. Physiology
- f. Development
 - i. Characteristic set of changes as they develop
 - ii. Some can be very simplistic- change in size
 - iii. Some are more complex like metamorphosis- sharp changes

Zoology Notes

Hugh Falconer



Zoology Notes:

Charles Darwin's Zoology Notes and Specimen Lists from H. M. S. Beagle Charles Darwin, 2005-07-07 For the first time Darwin's notes and logs from his voyage are published Included are analyses pencil drawings and technical notes

Zoology. Notes of a lecture delivered at Crosby Hall Thomas Trevethan SPICER, 1853 **My Zoology Notes** Susan R. Stoltz, 2021-05-30 Dinosaur book where you can see the bones through the illustrations Facts and verse about dinosaurs

Notes from the Royal Zoological Museum Rijksmuseum van Natuurlijke Historie te Leiden, 1910 Index-catalogue of Medical and Veterinary Zoology United States. Bureau of Animal Industry. Zoological Division, 1951 **Zoology Notes**

Frederick Wollaston Hutton, 1876 *Botany notes for students of medicine and science* Alexander Johnstone, 1894

Palaeontological Memoirs and Notes Hugh Falconer, 1868 *Index-Catalogue of Medical and Veterinary Zoology. Authors*, 1951 *Instant Notes in Animal Biology* Richard David Jurd, 1997 Palaeontological Memoirs and Notes of the late Hugh Falconer Hugh Falconer, 1868

Palaeontological Memoirs and Notes of the Late Hugh Falconer, A.M., M.D. With a Biographical Sketch of the Author Hugh Falconer (M.D.), 1868 Notes on Pathology, 1889 **Notes from the Leyden Museum** Rijksmuseum van Natuurlijke Historie te Leiden, Rijksmuseum van Natuurlijke Historie, Leyden, 1909 **Palaeontological Memoirs and Notes of the Late H. F. ... With a Biographical Sketch of the Author. Compiled and Edited by C. Murchison, Etc** Hugh Falconer, 1868

Palaeontological Memoirs and Notes of the Late Hugh Falconer: Fauna antiqua sivalensis Hugh Falconer, 1868 My Zoology Notes Susan Stoltz, 2021-05-30 Zoology workbook for young scientists A 100 page workbook about animal classifications habitat etc

Palaeontological Memoirs and Notes of the Late Hugh Falconer Hugh Falconer, 1868 *Notes from the Royal Zoological Museum* Rijksmuseum van Natuurlijke Historie te Leiden, 1904

Darwin's Sciences Duncan Porter, Peter Graham, 2015-08-03 A complete scientific biography of Darwin that takes into account the latest research findings both published and unpublished on the life of this remarkable man Considered the first book to thoroughly emphasize Darwin's research in various fields of endeavor what he did why he did it and its implications for his time and ours Rather than following a strictly chronological approach a narrative choice that characteristically offers an ascent to *On the Origin of Species* 1859 with a rapid decline in interest following its publication and reception this book stresses the diversity and full extent of Darwin's career by providing a series of chapters centering on various intellectual topics and scientific specializations that interested Darwin throughout his life Authored by academics with years of teaching and discussing Darwin Darwin's Sciences is suited to any biologist who is interested in the deeper implications of Darwin's research

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