

LECTURE #1: INTRODUCTION

- How do organisms work? Why does the human body look and function the way it does? These are themes of INTEGRATIVE FUNCTION and EVOLUTION, with COMPARATIVE BIOLOGY, EVOLUTIONARY HISTORY and ADAPTATION. SYSTEMS are sets of organs, comprised of tissues, comprised of cells, which perform particular functions. They are SKELETAL, RESPIRATORY, ENDOCRINE, DIGESTIVE, MUSCULAR, NERVOUS, CIRCULATORY, etc. HOMEOSTASIS is the regulation of stable internal body functions.
- DARWIN'S BIG IDEAS: (1) In all populations there is variation. (2) Some variation is heritable. (3) Organisms compete for limited resources with DIFFERENTIAL SURVIVORSHIP. These all contribute to the property of NATURAL SELECTION, whereby organisms with heritable variations that help them to survive and reproduce will be more likely to pass on those variations, which gradually leads to change.
- (1) We are all modified versions of each other, sharing many similarities. (2) More closely related organisms tend to share the same novel features (demonstrated through PHYLOGENY, a tree of TAXONOMIC RELATIONSHIPS). (3) Gradually, evolution generates increasingly complex organisms made up of many parts that are beautifully integrated.

LECTURE #2: EMBRYOLOGY

- EMBRYOLOGY is the study of developmental processes, helping to explain why and how the body gets its shape. EVO-DEVO helps us to understand mechanisms by which evolution generates new forms.
- The body is a set of *folding tubes and sheets*, each deriving from the three initial layers of cells. The body's parts fit and work together because of how they grow, through a branching process with many interactions between units. All vertebrates share basic CHORDATE PLAN and novelties are modifications of this basic plan. The earlier you alter development, the bigger the phenotypic consequences.
- A ZYGOTE is a single cell, derive from two GAMETE CELLS, the SPERM and the EGG. The human body with millions of cells has about 350 different kinds of cells, each with *membrane, cytoplasm and nucleus*. All cells have four basic functions, *multiplication, movement, differentiation, and signaling*.
- FERTILIZATION occurs 12 to 24 hours after OVULATION. The one-cell stage is when two PRONUCLEI from the sperm and the egg fuse to form the zygote. The two-cell stage is the first CLEAVAGE, about 30 hours after ovulation, and cleavage continues as the cells become smaller and form into a ball. At the four-cell stage, all cells are identical (the Armadillo makes four identical babies from this stage). Cleavage requires stored energy from the egg. The MORULA has 12 to 32 cells, the BLASTULA has 128 around a central cavity, and the BLASTOCYST has 700-800, where they have already begun to *differentiate* (the number of cells determine the names). The inner cell mass is the EMBRYOBLAST, the future organism, and the outer cell mass is the TROPHOBLAST, the supporting structure (which becomes the PLACENTA in mammals). After the blastocyst implants into the uterine wall via the trophoblast, the embryoblast divides into the EPIBLAST (nearest to the wall), the future embryo, and the HYPOBLAST, the yolk sac.

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Table of Contents Northstar Ls2 Study Guide

1. Understanding the eBook Northstar Ls2 Study Guide
 - The Rise of Digital Reading Northstar Ls2 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Northstar Ls2 Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Northstar Ls2 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Northstar Ls2 Study Guide

- Personalized Recommendations
- Northstar Ls2 Study Guide User Reviews and Ratings
- Northstar Ls2 Study Guide and Bestseller Lists
- 5. Accessing Northstar Ls2 Study Guide Free and Paid eBooks
 - Northstar Ls2 Study Guide Public Domain eBooks
 - Northstar Ls2 Study Guide eBook Subscription Services
 - Northstar Ls2 Study Guide Budget-Friendly Options
- 6. Navigating Northstar Ls2 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Northstar Ls2 Study Guide Compatibility with Devices
 - Northstar Ls2 Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Northstar Ls2 Study Guide
 - Highlighting and Note-Taking Northstar Ls2 Study Guide
 - Interactive Elements Northstar Ls2 Study Guide
- 8. Staying Engaged with Northstar Ls2 Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Northstar Ls2 Study Guide
- 9. Balancing eBooks and Physical Books Northstar Ls2 Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Northstar Ls2 Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Northstar Ls2 Study Guide
 - Setting Reading Goals Northstar Ls2 Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Northstar Ls2 Study Guide

- Fact-Checking eBook Content of Northstar Ls2 Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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