

Chapter 29: Introduction to Animal Physiology

River Salmon Life Cycle

- Fish travel from freshwater to salt water but return to rivers in which they were born to lay their eggs
- They swim against the river current and overcome obstacles
- Turn red when they go home
- Male and female die and decay leaving nutrients for their young

Noble Prize for Physiology or Medicine

- Importance: they are put in same category because you have to understand animal physiology to properly study and practice medicine.

Animal characteristics:

- **Not unique** to animals (fungi 3 and plants 2)
 - o **Eukaryotes**: cells have nuclei with membrane around it, ER, mitochondria
 - o **Heterotrophic**: get nutrients from other organisms
 - o **Multicellular**: body made up of multiple cells and differentiated tissues
- **Unique to animals** (sponges don't have both)
 - o **Muscles**: allow them to move, quickly generate forces through specialized cells
 - o **Neuronal signaling**: sense stimuli in the environment and react to them, neurons to control those muscles

Evolution of Natural Selection

Most animals are small and don't have backbone

Tradeoffs: not unique to animals

- As you optimize something for one function you reduce ability for another thing

Mechanism: describes how something works, the cause of a structure or behavior

- Shaped by evolution
- Close link between animal form and function
 - o Evolution puts constraint on animal's form and function
 - **Can't engineer from scratch, only tinker with preexisting structures**
- **Are rarely optimal due to tinkering**

Francois Jacob: Evolution and Tinkering (1977)

- Tinkerers who tackle same problems are likely to end up with different solution
 - o Example: fish developed different mechanisms by which to acquire oxygen, some gulped air while other developed structure to adapt to places with low oxygen levels
 - o Tarpon gulps air, specialized swim bladder
 - o Ornamental pet fish, gill chambers

Animal Physiology Lecture Notes

SA Dillow



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Table of Contents Animal Physiology Lecture Notes

1. Understanding the eBook Animal Physiology Lecture Notes
 - The Rise of Digital Reading Animal Physiology Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Animal Physiology Lecture Notes
 - 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 Animal Physiology Lecture Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Animal Physiology Lecture Notes
 - Personalized Recommendations
 - Animal Physiology Lecture Notes User Reviews and Ratings
 - Animal Physiology Lecture Notes and Bestseller Lists
5. Accessing Animal Physiology Lecture Notes Free and Paid eBooks

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