

Muscle Microanatomy and Physiology Study Guide

1. **Gross Anatomy of a Skeletal Muscle** (hand-out, p. 158, fig. 6.1)
 - a. Muscle: fibers, fascicles, blood vessels, and tendons.
2. **Microscopic Anatomy of a Skeletal Muscle** (hand-out, pp. 162-164, fig. 6.2)
 - a. Muscle cell membrane (sarcolemma, myofibril), dark band, light band, nuclei, ruffles, thin actin filaments, thick myosin filaments, sarcomere
3. **Steps for Muscle Contraction and Relaxation**
 1. Nerve signal to muscle.
 2. Thick myosin filaments bind to thin actin filaments.
 3. Thick filaments use ATP to pull the thin filaments together, which shortens the muscle fibers' sarcomeres causing contraction.
 4. Nerve signal stops, thick and thin filaments no longer bind each other and can slide past each other — muscle relaxes.
4. **Providing Energy for Muscle Contraction** (hand-out, pp. 169-171, fig. 6.16)
 - a. **Aerobic Energy Pathway** (also called Cellular Respiration)
 - How we provide energy (ATP) to our cells 99% of the time.
 - Fuel = glucose in muscle and liver (2-10%), fat stores (40-120%), and proteins (days-starvation)
 - Requires oxygen and mitochondria
 - Produces 36 ATP per glucose and produces CO₂ as waste
 - Produces ATP relatively slowly
 - b. **Anaerobic Energy Pathway** (also called Lactic Acid Fermentation)
 - High intensity, short duration muscle activity like sprinting
 - Our muscles use this pathway to produce fast energy during "anaerobic"
 - Fuel = glucose stored in muscle only (50-100%)
 - Produces only 2 ATP per glucose and produces lactic acid as waste. Lactic acid is very irritating to our muscles.
 - But it produces ATP very quickly

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Xiaolong Qi



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Whispering the Strategies of Language: An Mental Quest through **Medical Microanatomy Study Guide 92320final**

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Table of Contents Medical Microanatomy Study Guide 92320final

1. Understanding the eBook Medical Microanatomy Study Guide 92320final
 - The Rise of Digital Reading Medical Microanatomy Study Guide 92320final
 - Advantages of eBooks Over Traditional Books
2. Identifying Medical Microanatomy Study Guide 92320final
 - 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 Medical Microanatomy Study Guide 92320final
 - User-Friendly Interface
4. Exploring eBook Recommendations from Medical Microanatomy Study Guide 92320final
 - Personalized Recommendations

- Medical Microanatomy Study Guide 92320final User Reviews and Ratings
- Medical Microanatomy Study Guide 92320final and Bestseller Lists
- 5. Accessing Medical Microanatomy Study Guide 92320final Free and Paid eBooks
 - Medical Microanatomy Study Guide 92320final Public Domain eBooks
 - Medical Microanatomy Study Guide 92320final eBook Subscription Services
 - Medical Microanatomy Study Guide 92320final Budget-Friendly Options
- 6. Navigating Medical Microanatomy Study Guide 92320final eBook Formats
 - ePub, PDF, MOBI, and More
 - Medical Microanatomy Study Guide 92320final Compatibility with Devices
 - Medical Microanatomy Study Guide 92320final Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Medical Microanatomy Study Guide 92320final
 - Highlighting and Note-Taking Medical Microanatomy Study Guide 92320final
 - Interactive Elements Medical Microanatomy Study Guide 92320final
- 8. Staying Engaged with Medical Microanatomy Study Guide 92320final
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Medical Microanatomy Study Guide 92320final
- 9. Balancing eBooks and Physical Books Medical Microanatomy Study Guide 92320final
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Medical Microanatomy Study Guide 92320final
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Medical Microanatomy Study Guide 92320final
 - Setting Reading Goals Medical Microanatomy Study Guide 92320final
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Medical Microanatomy Study Guide 92320final
 - Fact-Checking eBook Content of Medical Microanatomy Study Guide 92320final

- 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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