

WEEK 8 (Lab 3): Neuronal control of gastrointestinal smooth muscle



This lab:

1. Will be assessed in-class (1%) via the PHY2032GutLabInClass worksheet 2024.doc (download from Week 8 Moodle Real-Time section)
2. Provides the theoretical background for your individual presentation on a gastrointestinal motility disorder (15%).

Safety guidelines

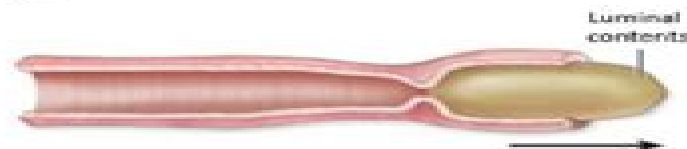
This laboratory uses animal tissues. Students are reminded that tissues should be handled with care, and must be assumed to be infectious. The Department of Physiology adopts 'Universal Precautions' as a means of minimising risks to students. This means that students must wear laboratory coats and appropriate shoes. Drugs are used and will be added to the organ bath with pipettes. Students are required to wear lab coats, goggles and gloves while handling these items. Pipette tips are to be disposed of in the sharps bin, gloves are to be disposed of in the biohazard bins.

INTRODUCTION

Gut Motility

The main function of the gastrointestinal (GI) system is to chemically breakdown (i.e., digest) food and to absorb nutrients, electrolytes and water into the body. Ingested food needs to be moved along the gastrointestinal tract (GI-tract) and this is controlled by nerves and hormones. This process of gut motility (i.e., contraction and relaxation of the gut smooth muscle) is regulated by the enteric nervous system. Information (e.g., stretch of the gut wall) is taken in via sensory nerves, analysed and changes in motility are achieved via the actions of efferent enteric nerve fibres (i.e., myenteric nerves) terminating on smooth muscle in the GI-tract. In this laboratory you will use the isolated rat ileum to study how the enteric (myenteric) nerves control intestinal motility. You have learnt about intestinal motility in your gut lectures (see figure 1). In this laboratory, you will also learn general principles of how nerves use neurotransmitters for communication and how neurotransmitter action on smooth muscle can be blocked and mimicked with specific drugs.

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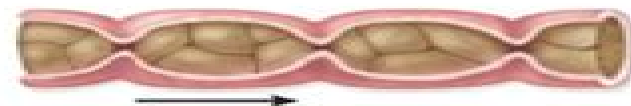


Figure 1. These images show types of gut motility in the intestines. (A) Peristalsis - migrating myoelectric complex (small intestine); mass movement (large intestine). (B) Mixing contractions - segmentations (small intestine); haustral (large intestine).

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Table of Contents Gallopers Gut Lab Answers

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

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