

# Lab 16 The Digestive System

BIO202L

**Student Name:** Kafayat Anifowose

**Access Code (located on the lid of your lab kit):** AC-P1ZZ0N

## **Lab Report Format Expectations:**

*Utilize college level grammar and professional formatting when completing this worksheet.*

*Submissions without proper formatting, all required photos or sufficient responses will be rejected. Pre-lab Questions*

1. Explain the digestion that occurs in the oral cavity.  
Mastication is the initial process in the oral cavity, in which the teeth break down food into smaller bits. The mouth's chemical digestion is limited to salivary amylase and lingual lipase.
2. What is the function of the liver in digestion?  
The job is to create and exude bile, digest and purify the blood including freshly acquired nutrients from the small intestine.
3. What role does the gall bladder play in digestion?  
Bile, a viscous fluid produced by the liver, aids in fat breakdown and is stored in the gallbladder.
4. Why is the orientation of muscle of the stomach wall important? How does this contribute to its function?  
Because the longitudinal layer in the stomach aids in moving food from the cardiac region through the stomach's body and into the pylorus, and then the circular layer presses across the whole stomach and especially aids in maintaining the pyloric and cardiac sphincters closed.

## **EXPERIMENT 1: MICROSCOPIC ANATOMY OF THE DIGESTIVE SYSTEM**

### **Introduction Questions**

1. Label the items in the following slide pictures.
  - A. Lamina propria
  - B. Epithelia
  - C. Submucosa
  - D. Mucosa glands

# Lab Experiments For Digestive System

**Kathleen Armour**



## **Lab Experiments For Digestive System:**

The Really Useful Book of Secondary Science Experiments Tracy-ann Aston,2017-07-31 How can a potato be a battery How quickly will a shark find you What food should you take with you when climbing a mountain The Really Useful Book of Secondary Science Experiments presents 101 exciting real world science experiments that can be confidently carried out by any KS3 science teacher in a secondary school classroom It offers a mix of classic experiments together with fresh ideas for investigations designed to engage students help them see the relevance of science in their own lives and develop a passion for carrying out practical investigations Covering biology chemistry and physics topics each investigation is structured as a problem solving activity asking engaging questions such as How can fingerprints help solve a crime or Can we build our own volcano Background science knowledge is given for each experiment together with learning objectives a list of materials needed safety and technical considerations detailed method ideas for data collection advice on how to adapt the investigations for different groups of students useful questions to ask the students and suggestions for homework Additionally there are ten ideas for science based projects that can be carried out over a longer period of time utilising skills and knowledge that students will develop as they carrying out the different science investigations in the book The Really Useful Book of Secondary Science Experiments will be an essential source of support and inspiration for all those teaching in the secondary school classroom running science clubs and for parents looking to challenge and excite their children at home

**Tried and Tested Primary Science Experiments** Kirsty Bertenshaw,2019-05-20 The modern world needs more scientists and engineers and good science education is key to filling this gap Especially in the current climate of rapid curriculum changes a lack of emphasis on training can result in unconfident teaching and monotonous lessons To rectify this this book offers methods to deliver the National Curriculum aims at primary school in an interesting hands on and fun fashion Tried and Tested Primary Science Experiments provides a practical step by step guide for all year groups helping teachers to create more engaging and fun science lessons in the classroom All experiments are simple to follow fail safe and are designed to enthuse and inspire students It includes tried and tested guides to running successful science experiments clear instructions that outline the simple equipment required how to carry out the experiments and what results to expect suggestions for adapting each activity to the special needs and interests of the students Aimed at primary school teachers and trainee teachers this illustrated guide refers directly to the new curriculum and is an essential resource for every primary classroom

**Pavlov's Physiology Factory** Daniel P. Todes,2003-04-29 Russian physiologist and Nobel Prize winner Ivan Pavlov is most famous for his development of the concept of the conditional reflex and the classic experiment in which he trained a dog to salivate at the sound of a bell In Pavlov s Physiology Factory Experiment Interpretation Laboratory Enterprise Daniel P Todes explores Pavlov s early work in digestive physiology through the structures and practices of his landmark laboratory the physiology department of the Imperial Institute for Experimental Medicine In Lectures on the Work

of the Main Digestive Glands for which Pavlov won the Nobel Prize in 1904 the scientist frequently referred to the experiments of his coworkers and stated that his conclusions reflected the deed of the entire laboratory This novel claim caused the prize committee some consternation Was he alone deserving of the prize Examining the fascinating content of Pavlov s scientific notes and correspondence unpublished memoirs and laboratory publications Pavlov s Physiology Factory explores the importance of Pavlov s directorship of what the author calls a physiology factory and illuminates its relationship to Pavlov s Nobel Prize winning work and the research on conditional reflexes that followed it Todes looks at Pavlov s performance in his various roles as laboratory manager experimentalist entrepreneur and scientific visionary He discusses changes wrought by government and commercial interests in science and sheds light on the pathways of scientific development in Russia making clear Pavlov s personal achievements while also examining his style of laboratory management Pavlov s Physiology Factory thus addresses issues of importance to historians of science and scientists today big versus small science the dynamics of experiment and interpretation and the development of research cultures

### **Women in**

**Microorganisms in Vertebrate Digestive Systems: 2023** Karolina Skonieczna-Żydecka, Ekaterina Avershina , Rebeca Martín, 2025-05-27 Please note that to be considered for this collection the first author or at least one corresponding author should be a researcher who identifies as a woman After the well received 2022 collection Frontiers in Microbiology is proud to host this Research Topic celebrating women s work and achievements in the field of Microorganisms in Vertebrate Digestive Systems Alongside International Women s Day and Women s History Month 2023 we will collectively embrace equity in the microbiology community There is continued gender disparity within core STEM subjects According to UNESCO Institute for Statistics just 33% of the world s researchers are women While the number of women attending university is growing they still represent the minority of doctoral students and researchers Women remain under represented in the highest level of academia holding just 26% of full professorships This is even more skewed in industry with just 3% of STEM industry CEOs being women As highlighted by UNESCO science and gender equality are essential to ensure sustainable development This Research Topic will act as a platform to promote the work of female researchers across the entire breadth of Microorganisms in Vertebrate Digestive Systems including Diversity and abundance of mutualistic commensal and pathogenic microorganisms in the vertebrate digestive tract Dynamics of microbial communities in relation to age diet and catastrophic events injuries and interventions such as fecal transplants Biological chemical and physical stressors including the effects of probiotics on microbiome composition and dynamics Gastrointestinal microbiome composition and its relationship with the host immune system and health This Research Topic is open for submissions including Original Research Reviews Mini Reviews Methods Opinion and Perspective articles All manuscripts will be handled by female editors Any articles focused on research metrics and gender perspectives or bias in scientific publications would be best suited in Frontiers in Research Metrics and Analytics journal

*Readings in Science Methods, K-8* Eric Brunzell, 2008 If you re

teaching an introductory science education course in a college or university Readings in Science Methods K 8 with its blend of theory research and examples of best practices can serve as your only text your primary text or a supplemental text

The Really Useful Book of Science Experiments Tracy-ann Aston,2015-09-16 The Really Useful Book of Science Experiments contains 100 simple to do science experiments that can be confidently carried out by any teacher in a primary school classroom with minimal or no specialist equipment needed The experiments in this book are broken down into easily manageable sections including It s alive experiments that explore our living world including the human body plants ecology and disease A material world experiments that explore the materials that make up our world and their properties including metals acids and alkalis water and elements Let s get physical experiments that explore physics concepts and their applications in our world including electricity space engineering and construction Something a bit different experiments that explore interesting and unusual science areas including forensic science marine biology and volcanology Each experiment is accompanied by a subject knowledge guide filling you in on the key science concepts behind the experiment There are also suggestions for how to adapt each experiment to increase or decrease the challenge The text does not assume a scientific background making it incredibly accessible and links to the new National Curriculum programme of study allow easy connections to be made to relevant learning goals This book is an essential text for any primary school teacher training teacher or classroom assistant looking to bring the exciting world of science alive in the classroom *Foundations of Agricultural Education, Fourth Edition* B. Allen Talbert,Barry Croom,Sarah E. LaRose,Rosco Vaughn,Jasper S.

Lee,2022-05-15 Foundations of Agricultural Education Fourth Edition is designed for college students in agricultural education and others interested in agricultural education as fundamental preparation for the profession Teachers of agricultural education and those in support roles will find this book to be a helpful resource This fourth edition is updated to reflect current educational theory and practices and includes changed laws and initiatives since the third edition This updated textbook is appropriate for both introductory and advanced courses Each chapter begins with a scenario designed to engage the learner in thinking about the content of that chapter and draws from relevant research and literature Photos illustrations and tables provide greater context to key concepts and every chapter concludes with questions for review and discussion as well as additional activities designed to guide the learner into further exploration Foundations of Agricultural Education Fourth Edition is an engaging immersive guide that will help prepare the next generation of agricultural educators

Canadian Medical Association Journal ,1916 The Five-year Outlook ,1980 **The Five-year Outlook: Source materials** National Science Foundation (U.S.),1980 *Announcement* University of Michigan--Dearborn,1975 **Gut Health: The Science-backed Plan to Optimize Digestive Health (Easy Step-by-step Solutions to Restore Digestive Health, Boost Metabolism and Feel Great Again)** Donald Pacheco,101-01-01 A practical toolkit threads through every chapter Readers learn to log meals posture stress and bristol stool scores to photograph daily alignment and to measure

waist changes morning versus night These home metrics expose patterns standard gi tests miss because organs behave differently lying flat in a scanner than they do inside a standing twisted torso The book urges multidisciplinary care orthopedic therapists who teach rib lift stretches dietitians versed in low histamine plans functional medicine doctors who run hormone and neurotransmitter panels so the whole puzzle is addressed not just isolated pieces Inside this powerful guide you ll discover The real story behind the mind gut connection book and how your microbiome affects everything from memory to mental wellness Why fatigue food sensitivities and weight gain often start with your gut Simple daily habits and natural remedies book practices that support true gut healing Practical family friendly strategies for managing ibs gas bloating and more The gut stress loop and how to break free from it A complete gut cleanse book protocol to reset your microbiome in just 4 weeks Delicious healing recipes filled with prebiotics probiotics and whole food nourishment Even if you have tried a bunch of diets before and haven t seen much success this practical step by step approach will methodically help you unpack what s really going on in your tummy and how to calm it all down fast With quick fixes as well as a more sustainable way to stay on top of your gut problems discomfort pain and ill health linked to your gut will be kept to a complete minimum and maybe even gone for good A Laboratory Guide in Pharmacology Torald Hermann Sollmann,1917

*Gross Science Experiments* Emma Vanstone,2020-10-13 Fun Experiments Full of Blood Bugs Poop and More From squirming insects to smelly human bodies there s so much to explore with these excitingly icky experiments Learn about everything from food bugs germs and poop to all the weird and wonderful things you re made of Taste and tear through a variety of edible models of skin blood and scabs Rip open fake stomachs create blood baths and test your own body to see just how gross human beings can get Don t stop there though Get your friends and family involved and give them bath bombs full of bugs or see how long it takes them to detect different smells from across the room There are so many ways to disgust and amuse those around you from smelly cow burps and slimy frogspawn to homemade poo launchers and experiments that explode with fizzy juices No matter which experiment you choose you ll have fun being gross Laboratory and Field

Activities in General Zoology , **The Educational System in Japan** ,1998 Health Fair Resource Guide ,1986 *The Digestive System in Mammals* D. J. Chivers,P. Langer,1994-07-21 Biochemical physiological and morphological aspects of mammalian digestive systems **Insights in Microorganisms in Vertebrate Digestive Systems: 2022** Weiqi

He,2024-01-19 This Research Topic is part of the Insights in Frontiers in Microbiology series We are now entering the third decade of the 21st Century and especially in the last years the achievements made by scientists in the field of Microbiology have been exceptional leading to major advancements Frontiers has organized a series of Research Topics to highlight the latest advancements in science in order to be at the forefront of science in different fields of research This specific editorial initiative led by Dr Weiqi He is focused on new insights novel developments current challenges latest discoveries recent advances and future perspectives in the field The Research Topic solicits brief forward looking contributions from associate

editors and review editors that describe the state of the art outlining recent developments and major achieved accomplishments future challenges and how to address those challenges to move the field forward Reviews Mini Reviews Perspectives and Opinions summarizing the current state and future directions of the field are particularly welcome in this collection

**Gender, Sport, Science** J. A. Mangan, Patricia Vertinsky, 2013-10-18 Roberta J Park has been throughout her distinguished career a scholar with a mission to win academic recognition of the significance of the body in culture and cultures Her scholarship has earned her global esteem in the disciplines of Physical Education and Sports Studies for its penetrating insights This selection of her writings is a well deserved tribute to her interpretive originality her intellectual acuity and her ability to inspire colleagues and students To explore unexplored patterns has been her extraordinary strength The result has been continual originality of insight These writings are thus a unique compilation of scholastic creativity of major interest to scholars and students in Sports Studies Physical Education Health Studies Sociology and Social Psychology This book was published as a special issue of the International Journal of the History of Sport

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