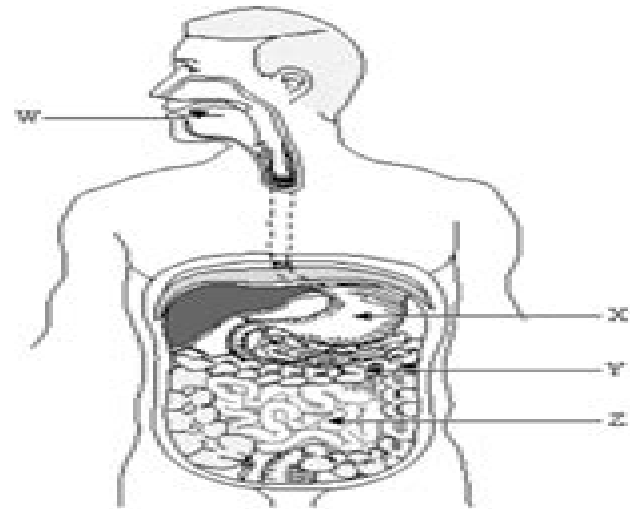


## Biology 12 - The Digestive System - Chapter Notes

### **I**n a nutshell...

- The body uses a variety of **small molecules** (amino acids, fatty acids, glucose) for its metabolic needs. Food is mechanically and chemically broken down into these molecules during **digestion**, after which they can be taken up by body cells through the separate process of **absorption**.
- Food travels in a **one-way path** from mouth to esophagus to stomach to small intestine to large intestine to anus.
- Organs and structures in the digestive system are **specialized** for specific functions in digestion.
- **Digestive enzymes** are specific hydrolytic enzymes that have a preferred temperature and pH.
- Proper **nutrition** is necessary to health.
- **DIGESTION**: the **mechanical** and **chemical** breaking down of ingested food into particles, then into **molecules small enough** to move through epithelial cells and into the internal environment.
- **ABSORPTION**: the passage of *digested nutrients* from the gut lumen into the blood or lymph, which distributes them through the body.



# Raycroft Biology 12 Digestion

**Alvin Silverstein, Virginia B. Silverstein**



## Raycroft Biology 12 Digestion:

**Journal of the American Medical Association** American Medical Association,1903 Includes proceedings of the Association papers read at the annual sessions and list of current medical literature      **The Journal of the American Medical Association** ,1903      **The British National Film Catalogue** ,1982      *The Digestive System* Carol Ballard,2009-07-01 Investigates the miracles of the human body Provides an in depth on a vital body part or system

*Membrane Digestion* Aleksandr Mikhailovich Ugolev,1989      *The Digestive System* Michael Windelspecht,2004-08-30 Examines the role and function of the human digestive system      *The Digestive System in Mammals* D. J. Chivers,P. Langer,1994-07-21 Biochemical physiological and morphological aspects of mammalian digestive systems      **How Food Travels In The Body - Digestive System - Biology Books for Kids | Children's Biology Books** Baby Professor,2017-06-15 See how food travels in your body from the moment you put it inside your mouth until you discharge of the waste products Did you know that the digestive system is responsible for processing the food you eat and converting it into the energy you use to perform your daily activities By reading this book you will realize that your body is a wonderful and amazing machine      *Digestion and Nutrition, Third Edition* Mary Kinkel,Robert Sullivan,2021-11-01 Digestion is the process of taking food and nutrients into the body and making them available for use in all of the body s processes The digestive system breaks down food and extracts the important nutrients eliminating the excess substances that cannot be used These nutrients provide energy for the body to grow function and make repairs to itself Digestion and Nutrition Third Edition describes the path that food takes through the system the organs involved and how the body uses different types of nutrients while highlighting the importance of healthy eating and the problems and diseases that can affect the digestive tract Packed with full color photographs and illustrations this absorbing book provides students with sufficient background information through references websites and a bibliography      **Food, Feeding and Digestion** Philip Booth,Donald Reid,1979-01-01 Feeding Teeth Sources of food Digestive system Mouth Swallowing Stomach Duodenum Liver functions\_

*Physiology and Pathology of Membrane Digestion* A. M. Ugolev,2012-12-06 The physiology and pathology of membrane contact or surface digestion of the three main components of the food of animals and man is a rapidly developing field and there is little doubt that newer ob servations will become available as time progresses As the dis coverer of the phenomenon of membrane digestion Professor Ugolev is well aware of the relative infancy of this subject and in presenting the book at this time his primary purpose was to acquaint the reader with the experimental basis for the observed phenomenon and to stimulate interest in the further work required for the elucidation of details and for proper orientation Translations as means of communication of ideas and experimental facts are of obvious importance and they require no apologies or explanations particularly to those who are engaged in scientific endeavors In making this book available to those who find the Russian language an insurmountable barrier our main efforts were directed toward preserving the author s meaning spirit and intent

as accurately as possible It is hoped that this objective has been attained and that the minor unintentional errors will be forgiven by the reader and by the author The translator wishes to express to Professor Ugolev whom he met in Leningrad in 1965 his appreciation for the trust in the ability of the translator to make Professor Ugolev's labor of love the present book available in the English language

**Chapter Resource 39 Digestive/Excretory Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

*Physiology and Pathophysiology of Digestion* D. Neil Granger, James D. Morris, Peter R. Kvietys, 2018-07-25 This collaboration of two physiologists and a gastroenterologist provides medical and graduate students, medical and surgical residents and subspecialty fellows a comprehensive summary of digestive system physiology and addresses the pathophysiological processes that underlie some GI diseases The textual approach proceeds by organ instead of the traditional organization followed by other GI textbooks This approach lets the reader track the food bolus as it courses through the GI tract learning on the way each organ's physiologic functions as the bolus directly or indirectly contacts it The book is divided into three parts 1 Chapters 1-3 include coverage of basic concepts that pertain to all or most organs of the digestive system salivation chewing swallowing and esophageal function 2 Chapters 4-6 are focused on the major secretory organs stomach pancreas liver that assist in the assimilation of a meal and 3 Chapters 7 and 8 address the motor transport and digestive functions of the small and large intestines Each chapter includes its own pathophysiology and clinical correlation section that underscores the importance of the organ's normal function

*The Digestive System* The Open The Open Courses Library, 2019-10-26 The Digestive System Biology The digestive system is continually at work yet people seldom appreciate the complex tasks it performs in a choreographed biologic symphony Consider what happens when you eat an apple Of course you enjoy the apple's taste as you chew it but in the hours that follow unless something goes amiss and you get a stomachache you don't notice that your digestive system is working You may be taking a walk or studying or sleeping having forgotten all about the apple but your stomach and intestines are busy digesting it and absorbing its vitamins and other nutrients By the time any waste material is excreted the body has appropriated all it can use from the apple In short whether you pay attention or not the organs of the digestive system perform their specific functions allowing you to use the food you eat to keep you going This book examines the structure and functions of these organs and explores the mechanics and chemistry of the digestive processes

Chapter Outline Overview of the Digestive System Digestive System Processes and Regulation The Mouth Pharynx and Esophagus The Stomach The Small and Large Intestines Accessory Organs in Digestion The Liver Pancreas and Gallbladder Chemical Digestion and Absorption A Closer Look The Open Courses Library introduces you to the best Open Source Courses

**Interdisciplinary Approaches to Food Digestion** Ourania Gouseti, Gail M. Bornhorst, Serafim Bakalis, Alan Mackie, 2019-02-13 For the first time this singular and comprehensive text presents a focus on quantitative studies aiming to describe food digestion and the tools that are available for quantification A case study relevant to real world applications places this theoretical knowledge in context and demonstrates the different

ways digestion studies can be used to develop food products

**Interdisciplinary Approaches to Food Digestion** undertakes a multidisciplinary approach to food digestion studies placing them in context and presenting relevant phenomena plus the challenges and limitations of different approaches This book presents a unique useful reference work to scientists students and researchers in the area of food science engineering and nutrition Over the last two decades there has been an increasing demand for foods that deliver specific nutritional values In addition the dramatic increase of food related diseases such as obesity requires the development of novel food products that control satiety and glycemic response Overall digestion studies are gaining increasing attention in recent years especially as the link between diet and health well being becomes more evident However digestion is a complex process involving a wide range of disciplines such as medicine nutrition chemistry materials science and engineering While a significant body of work exists within each discipline there is a lack of a multidisciplinary approach on the topic which will provide a holistic view of the process With **Interdisciplinary Approaches to Food Digestion** researchers are finally presented with this much needed approach

**Digestive System & Metabolism** Dr. Tommy Mitchell, 2018-08-02 The fourth volume of the Wonders of the Human Body series dives deep into why our bodies need energy and how we get it As with all our explorations into the complexity of the human body when you see the incredible design of the digestive system you ultimately have to ask yourself Can this all possibly be an accident Something that happened by chance The answer is a resounding No We are not the product of evolution We are not animals We are a special creation In **Digestive System Metabolism** you will learn about The digestive system including the teeth and tongue the mouth and esophagus the stomach and intestines the liver the gallbladder and the pancreas Our metabolism a complex system created by God to transform food into fuel for our energy God our Designer thought of everything even the problems that would occur in a sin cursed world We are indeed wonderfully made Prepare to be amazed

***Physiology of the Digestive Tract*** Horace Willard Davenport, 1971

**Break It Down** Steve Parker, 2006-11-14 Take a new look at the human body Find out what happens to the food you eat as it makes its journey through your body Using interesting photos and facts this book will really make you think about your body and the amazing things that go on inside you every second You ll never feel the same way about yourself

**Digestion and Metabolism** Alonzo Englebert Taylor, 1912

**The Digestive System** Alvin Silverstein, Virginia B. Silverstein, 1970 Briefly discusses the various ways plants and animals obtain and utilize food describes the human digestive system and what happens to a roast beef sandwich when it is eaten and explains the principles of nutrition

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