
Case-study in Bacteriology (Prof. Dr. Alaa Al-Charrakh):

1- Five children from the same school presented with abdominal pain and diarrhoea (streaked with blood) over a period of 3 days. Upon investigation it was found that one of the children had recently been abroad with his family. Fecal specimen was collected and sent to microbiology lab. Many pus cells on direct microscopy and non-lactose fermenting colonies were found on MacConkey's agar. On motility test it was non-motile

- a. What is the identity of the organism? b. What is the mode of spread?

2- A 30 years old man presented to out-patient gastroenterology clinic with the complaints of:

- Changed taste & bad breath
- Recurrent epigastric pain & heart burn

On gastroscopy he was diagnosed as having gastric ulcer. A biopsy was taken and sent to microbiology lab;

- a) What tests will be performed on the biopsy specimen?
b) What is the likely organism causing the disease?
c) What other lab tests will help to confirm the identity of the organism?

3- A previously normal, full-term infant developed bilateral conjunctivitis at 2 weeks of age. The conjunctivitis was followed by severe coughing, but the infant remained afebrile. When the infant was 4 weeks old, a chest X-ray showed bilateral symmetrical interstitial infiltrates. The white blood cell (WBC) count was $14,000/\text{mm}^3$ with 32% segmented neutrophils, 58% lymphocytes, 2% monocytes, and 4% eosinophils. Which of the following is the most probable infectious agent?

- A. *Chlamydia trachomatis* B. *Streptococcus agalactiae*
C. *Haemophilus influenza* D. *N. meningococcus*

4. A 16-year-old girl was admitted to a Merjan teaching hospital because of hypotension, cyanosis, high fever (39.9°C), and bilateral, non-fluctuant, inguinal, and axillary lymphadenopathy. The patient died the same day. Blood cultures obtained on admission were positive for bipolar-staining, short, gram-negative bacilli. What is the most probable etiologic agent?

- A. *Yersinia pestis* B. *K. rhinoscleromatis*

Microbiology Case Studies With Answers

Sarah J. Pitt



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Visualizing Microbiology Rodney P. Anderson, Linda Young, 2017-08-14 Visualizing Microbiology 1st Edition provides an introduction to microbiology for students who require the basic fundamentals of microbiology as a requirement for their major or course of study The unique visual pedagogy of the Visualizing series provides a powerful combination of content visuals multimedia and videos ideal for microbiology A dynamic learning platform encouraging engagement with real clinical content Visualizing Microbiology also brings the narrative to life with integrated multimedia helping students see and understand the unseen in the world of microbiology

Clinical Microbiology for Diagnostic Laboratory Scientists

Sarah J. Pitt, 2018-01-16 A modern evaluative and integrative approach to diagnostic microbiology encouraging problem solving in the clinical laboratory context through the use of examples to illustrate clinical and diagnostic issues Clinical Microbiology for Diagnostic Laboratory Scientists is designed to encourage readers to develop a way of thinking that can be applied to any diagnostic scenario in microbiology Through consideration of a selected range of infections caused by pathogenic bacteria viruses fungi protozoa and helminths the book encourages readers to explore connections between the available information about clinical symptoms pathogenesis of infections and the approaches used in laboratory diagnosis in order to develop new insights The book begins with an introductory chapter that outlines the scope of clinical diagnostic microbiology and the key areas for the laboratory scientist to be aware of The subsequent six chapters review a type of infection in depth using particular pathogenic microorganisms to illustrate salient points At the end of each chapter there are three exercises related to management of a diagnostic service and assessing the suitability of test methods to specific contexts There are no right or wrong answers to these but the reader can discuss them with their laboratory colleagues or university tutor Makes extensive use of published research in the form of journal articles publically available epidemiological data professional guidelines and specialist websites Stimulates the reader in critical appraisal of published evidence and encourages problem solving in the laboratory Outlines the scope of clinical diagnostic microbiology and the key areas for the laboratory scientist to be aware of Considers topics relevant to professional scientists working in the area of diagnostic microbiology Clinical Microbiology for Diagnostic Laboratory Scientists is ideal for post graduate scientists intending to pursue careers in diagnostic clinical microbiology and for biomedical scientists clinical scientists and full time students studying for upper level qualifications in biomedical science microbiology or virology

Study Guide for Bailey and Scott's Diagnostic Microbiology - E-Book Betty A. Forbes, Daniel F. Sahm, Alice S. Weissfeld, 2016-06-30 Corresponding to chapters in Bailey Scott's Diagnostic Microbiology 12th Edition this new guide reviews important topics and helps students master key material It includes chapter objectives a summary of key points review questions and case studies Material is presented in an engaging format that challenges students to apply their knowledge to real life scenarios Type Source Promotion Chapter Objectives open each chapter providing a measurable outcome to achieve by completing the material A

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Understanding Viruses is a textbook for the modern undergraduate virology course The text provides an introduction to human viral diseases Additional chapters on viral diseases of animals the history of clinical trials gene therapy and xenotransplantation prions and viroids plant viruses and bacteriophages add to the coverage Jacket **Medical**

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Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students initial introduction to this exciting science **Schaechter's Mechanisms of Microbial Disease**

Moselio Schaechter,N. Cary Engleberg,Victor J. DiRita,Terence Dermody,2007 Now in full color the Fourth Edition of this text gives students a thorough understanding of microbial agents and the pathophysiology of microbial diseases The text facilitates learning and recall by emphasizing unifying principles and paradigms rather than forcing students to memorize isolated facts by rote Case studies with problem solving questions give students insight into clinical applications of microbiology Each chapter ends with review and USMLE style questions For this edition all schematic illustrations have been

re rendered in full color and new illustrations have been added A new online site for students includes animations USMLE style questions and all schematic illustrations and photographs from the text Living in a Microbial World Bruce Hofkin, 2020-11-26 As with the first edition this second edition of Living in a Microbial World is written for students taking a general microbiology course or a microbiology based course for non science majors The conversational style and use of practical everyday examples make the essential concepts of microbiology accessible to a wide audience While using this approach the text maintains scientific rigor with clear explanations spanning the breadth of microbiology including health evolution ecology food production biotechnology and industrial processes Each chapter contains a series of case studies based on microbiology in the news in history and in literature There are questions at the end of each case study and the end of each chapter as well as an online quiz with help on answering the questions The text questions and cases have been updated to reflect the changing influence of microbiology in the world today from the microbiome to new disease outbreaks Ebola and Zika and antibiotic resistance to new biotechnology tools CRISPR Cas

Foundations in Microbiology' 2007 Ed.(sixth Edition)2007 Edition , **Medical Microbiology** Patrick R. Murray, PhD, Ken S. Rosenthal, PhD, Michael A. Pfaller, MD, 2015-10-28 Turn to Medical Microbiology 8th Edition for a thorough clinically relevant understanding of microbes and their diseases This succinct easy to use text presents the fundamentals of microbiology and immunology in a clearly written engaging manner effectively preparing you for your courses exams and beyond Coverage of basic principles immunology laboratory diagnosis bacteriology virology mycology and parasitology help you master the essentials Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance of the organisms examined Clinical cases illustrate the epidemiology diagnosis and treatment of infectious diseases reinforcing a clinical approach to learning Full color clinical photographs images and illustrations help you visualize the clinical presentations of infections Summary tables and text boxes emphasizing essential concepts and learning issues optimize exam review Additional images 200 self assessment questions NEW animations and more Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the complete text videos images and references from the book Thoroughly updated chapters include the latest information on the human microbiome and probiotics prebiotics including a new chapter on Human Microbiome In Health and Disease NEW chapter summaries introduce each microbe chapter including trigger words and links to the relevant chapter text on e book version on Student Consult providing a concise introduction or convenient review for each topic Online access to the complete text additional images 200 self assessment questions NEW animations and more is available through Student Consult

Fundamentals of Microbiology Jeffrey C. Pommerville, 2014-12 Ideal for health science and nursing students Fundamentals of Microbiology Body Systems Edition Third Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known Highly suitable for non

science majors the fully revised and updated third edition of this bestselling text contains new pedagogical elements and an established learning design format that improves comprehension and retention and makes learning more enjoyable Unlike other texts in the field Fundamentals of Microbiology Body Systems Edition takes a global perspective on microbiology and infectious disease and supports students in self evaluation and concept absorption Furthermore it includes real life examples to help students understand the significance of a concept and its application in today s world whether to their local community or beyond New information pertinent to nursing and health sciences has been added while many figures and tables have been updated revised and or reorganized for clarity Comprehensive yet accessible the Third Edition is an essential text for non science majors in health science and nursing programs taking an introductory microbiology course

Provided by publisher *Importance of Microbiology Teaching and Microbial Resource Management for Sustainable Futures* Ipek Kurtboke,2022-04-14 Importance of Microbiology Teaching and Microbial Resource Management for Sustainable Futures brings experts together to highlight the importance of microbiology discipline based teaching with its unique skills based approaches The book discusses how microscope microbiology has received significant attention since microorganisms played a significant role in the advancement as well as destruction of mankind during incidences such as the black death With the discovery of penicillin from a fungal culture the beneficial role of microorganisms has been a major catalyst in the progress of biological sciences Interestingly there are fundamental aspects of microbiology that did not change since revelations of their identity dating back to the Pasteur era This book details the progress made and milestones that have been set in the science Emphasizes traditional and discipline based teaching with a focus on microbiology Combines pedagogy and the challenges faced in the post genomic era Provides examples from various parts of the world including from the Pasteur Institute *Case Studies in Microbiology* Rodney P. Anderson,Linda Young,2011-10-25 This first edition text developed and evolved to meet three pedagogical goals we deemed essential for those studying allied health and are pre professional The use of microbiology case studies were modified to maintain their value as tools that result in critical thinking and knowledge retention while providing a more realistic context for preparing future health care professionals Consequently the text has real life personally oriented microbiology cases appropriate for those in nursing pharmacy and other allied health disciplines pre med pre PA CLS etc This format presents material as a story about the patient as well as information regarding their family circumstances personal characteristics and individual motivations *Case Studies in Infectious Disease* Peter Lydyard,Michael Cole,John Holton,Will Irving,Nino Porakishvili,Pradhib Venkatesan,Kate Ward,2023-05-17 Case Studies in Infectious Disease presents 40 case studies featuring the most important human infectious diseases worldwide Fully revised and updated in this second edition the book describes the natural history of infection from point of entry of the pathogen through to clinical management of the resulting disease or condition A further 8 case studies have been provided online as supplementary material and these can be downloaded by students Five core sets of questions

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Developer's Handbook of Interactive Multimedia Robin Phillips,2014-05-12 New technology is being used more and more in education and providers have to be aware of what is on offer and how it can be used This practical handbook demonstrates how interactive multimedia can be developed for educational application **Microbiology Australia**

,2000-07 **The Microbial Challenge** Robert I. Krasner,Teri Shors,2014 Microbes play a highly significant role in our daily lives as agents of infectious disease and are a major public health concern The third edition of The Microbial Challenge A Public Health Perspective addresses this topic and has been extensively revised and updated with the latest data in a fast paced field It focuses on human microbe interactions and considers bacterial viral prion protozoan fungal and helminthic worm diseases A chapter on beneficial aspects of microbes makes it clear that not all microbes are disease producers and that microbes are necessary for the sustenance of life on Earth The response of the immune system concepts of epidemiology and measures of control from the individual to the international level to thwart potentially life threatening epidemics are described Sections on fungi and fungal diseases are new The third edition includes new and contemporary information on

vaccinations antibiotic resistant microbes practical disinfection information virotherapy and emerging diseases New boxes throughout the text feature items of human interest such as big and bizarre viruses probiotics rats and synthetic biology Ancillary instructor and student resources have been updated and expanded including the end of the chapter Self Evaluations New and Key Features of the Third Edition New end of chapter questions included in every chapter A wealth of new feature boxes add a real world perspective to the topics at hand New data on virotherapy and prions as infectious agents New and updated statistics and data tables included throughout the text Includes the latest on emerging and reemerging infectious diseases as major health problems

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