
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 Study Answers

**Ian Pepper, Charles P. Gerba, Terry
Gentry**



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Encyclopedia of Case Study Research Albert J. Mills, Gabrielle Durepos, Elden Wiebe, 2009-10-21 Case study research has a long history within the natural sciences social sciences and humanities dating back to the early 1920 s At first it was a useful way for researchers to make valid inferences from events outside the laboratory in ways consistent with the rigorous practices of investigation inside the lab Over time case study approaches garnered interest in multiple disciplines as scholars studied phenomena in context Despite widespread use case study research has received little attention among the literature on research strategies The Encyclopedia of Case Study Research provides a compendium on the important methodological issues in conducting case study research and explores both the strengths and weaknesses of different paradigmatic approaches These two volumes focus on the distinctive characteristics of case study research and its place within and alongside other research methodologies Key Features Presents a definition of case study research that can be used in different fields of study Describes case study as a research strategy rather than as a single tool for decision making and inquiry Guides rather than dictates readers understanding and applications of case study research Includes a critical summary in each entry which raises additional matters for reflection Makes case study relevant to researchers at various stages of their careers across philosophic divides and throughout diverse disciplines Key Themes Academic Disciplines Case Study Research Design Conceptual Issues Data Analysis Data Collection Methodological Approaches Theoretical Traditions Theory Development and Contributions From Case Study Research Types of Case Study Research **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 Textbook of Diagnostic Microbiology - E-Book Connie R. Mahon, Donald C. Lehman, 2022-11-02 Selected for Doody's Core Titles 2024 in Laboratory Technology Gain the knowledge and skills you need to succeed in the clinical lab Textbook of Diagnostic Microbiology 7th Edition uses a reader friendly building block approach to help you learn the essentials of diagnostic microbiology Featuring full color drawings and photos this text helps you learn to develop the critical thinking and problem solving skills necessary to the accurate diagnosis of infectious diseases and the identification of infectious agents Written by noted educators Connie R Mahon and Donald C Lehman this edition adds new content on SARS CoV 2 and COVID 19 along with the latest information on prevention treatment modalities and CDC guidelines Building block approach encourages you to use previously learned information in mastering new material Full color photographs and photomicrographs make it easier to understand and apply diagnostic microbiology concepts Case studies describe clinical

and laboratory findings offering opportunities to correlate observations with possible etiologic agents and to build critical thinking and problem solving skills Hands on procedures in the appendices describe techniques used in the lab setting Issues to Consider boxes list important points to think about while reading the chapter Case Checks in each chapter highlight specific points in the text and show how they connect to case studies Bolded key terms with abbreviations are listed at the beginning of each chapter showing the most important and relevant terms in each chapter Learning Objectives at the beginning of each chapter supply you with a measurable learning outcome to achieve by completing the material Points to Remember sections at the end of each chapter provide a bulleted list of key concepts Learning Assessment Questions at the conclusion of each chapter help you to think critically and to evaluate how well you have mastered the material Agents of Bioterror and Forensic Microbiology chapter provides the most current information about these important topics Lab manual on the Evolve website reinforces concepts with real life scenarios and review questions Glossary at the end of the book supplies you with a quick reference for looking up definitions of key terms NEW Information about SARS CoV 2 and COVID 19 is added to this edition NEW Updated content is included throughout the book and several chapters are reorganized and refocused NEW Enterobacteriaceae chapter is updated

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 **Understanding Viruses** Teri Shors, 2009 Combining the molecular clinical and historical aspects of virology *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

Activity Theory, Authentic Learning and Emerging Technologies Vivienne Bozalek, Dick Ng'ambi, Denise Wood, Jan Herrington, Joanne Hardman, Alan Amory, 2014-09-15 Although emerging technologies are becoming popularised for teaching learning and research the relationship between their use and transformative effects on higher education remain largely unexplored This edited collection seeks to fill this gap by providing a nuanced view locating higher education pedagogical practices at an intersection of emerging technologies authentic learning and activity systems Providing numerous case studies as examples the book draws from a wide range of contexts to illustrate how such a convergence has the potential to track transformative teaching and learning practices in the higher education sector Chapters provide the reader with a variety of transformative higher education pedagogical practices in southern contexts theorised within the framework of Cultural Historical Activity Theory CHAT and tool mediation while using authentic learning as a pedagogical model upon which this theoretical framework is based The topics covered in the book have global relevance with research paying particular attention to South Africa Australia and New Zealand where the authors are based The book will be of interest to educators researchers and practitioners in higher education as well as those interested in emerging technologies in education more generally Food Microbiology Michael P. Doyle, Francisco Diez-Gonzalez, Colin Hill, 2020-07-10 Since its

introduction in 1997 the purpose of *Food Microbiology Fundamentals and Frontiers* has been to serve as an advanced reference that explores the breadth and depth of food microbiology Thoroughly updated the new Fifth Edition adds coverage of the ever expanding tool chest of new and extraordinary molecular methods to address many of the roles that microorganisms play in the production preservation and safety of foods Sections in this valuable reference cover material of special significance to food microbiology such as stress response mechanisms spores and the use of microbiological criteria and indicator organisms commodity oriented discussion of types of microbial food spoilage and approaches for their control the major foodborne pathogens including diseases virulence mechanisms control measures and up to date details on molecular biology techniques state of the science information on food preservation approaches including natural antimicrobials and the use of bacteriophages in controlling foodborne pathogens beneficial microbes used in food fermentations and to promote human and animal health updated chapters on current topics such as antimicrobial resistance predictive microbiology and risk assessment This respected reference provides up to the minute scientific and technical insights into food production and safety readily available in one convenient source The Microbial Regulation of Global Biogeochemical Cycles Johannes Rousk, Per Bengtson, 2014-10-17 Global biogeochemical cycles of carbon and nutrients are

increasingly affected by human activities So far modeling has been central for our understanding of how this will affect ecosystem functioning and the biogeochemical cycling of carbon and nutrients These models have been forced to adopt a reductive approach built on the flow of carbon and nutrients between pools that are difficult or even impossible to verify with empirical evidence Furthermore while some of these models include the response in physiology ecology and biogeography of primary producers to environmental change the microbial part of the ecosystem is generally poorly represented or lacking altogether The principal pool of carbon and nutrients in soil is the organic matter The turnover of this reservoir is governed by microorganisms that act as catalytic converters of environmental conditions into biogeochemical cycling of carbon and nutrients The dependency of this conversion activity on individual environmental conditions such as pH moisture and temperature has been frequently studied On the contrary only rarely have the microorganisms involved in carrying out the processes been identified and one of the biggest challenges for advancing our understanding of biogeochemical processes is to identify the microorganisms carrying out a specific set of metabolic processes and how they partition their carbon and nutrient use We also need to identify the factors governing these activities and if they result in feedback mechanisms that alter the growth activity and interaction between primary producers and microorganisms By determining how different groups of microorganisms respond to individual environmental conditions by allocating carbon and nutrients to production of biomass CO₂ and other products a mechanistic as well as quantitative understanding of formation and decomposition of organic matter and the production and consumption of greenhouse gases can be achieved In this Research Topic supported by the Swedish research councils programme Biodiversity and Ecosystem Services in a Changing Landscape BECC we intend to promote this alternative framework to address how cycling of carbon and nutrients will be altered in a changing environment from the first principle mechanisms that drive them namely the ecology physiology and biogeography of microorganisms and on up to emerging global biogeochemical patterns This novel and unconventional approach has the potential to generate fresh insights that can open up new horizons and stimulate rapid conceptual development in our basic understanding of the regulating factors for global biogeochemical cycles The vision for the research topic is to facilitate such progress by bringing together leading scientists as proponents of several disciplines By bridging Microbial Ecology and Biogeochemistry connecting microbial activities at the micro scale to carbon fluxes at the ecosystem scale and linking above and belowground ecosystem functioning we can leap forward from the current understanding of the global biogeochemical cycles

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 Food Microbiology for Food Safety and Quality Rosa K. Pawsey,2002 This unique book covers the key issues relating to the control and management of the most commonly occurring food borne bacteria which compromise the safety and quality of food The 21 case studies drawn from a wide range of sources present real life situations in which the management of food borne pathogens failed or was at risk of failure Each chapter contains a case study which is supported by relevant background information such as diagrams tables of data etc study questions and a subsequent feedback commentary all of which encourage the reader to apply their knowledge With reference to specific organisms such as E coli Salmonella Listeria monocytogenes and so on the chapters move the reader progressively from strategies for control of food borne organisms techniques for their control appreciating risk through sampling criteria and acceptance to managing risk With the provision of real life problems to explore along with the opportunity to propose and justify approaches to managing food safety this book will be welcomed as a new approach to learning not only by students and their teachers but also by food professionals in policy making and enforcement and the many within the food industry who are involved with the management of food safety Pathology in Clinical Practice: 50 Case Studies Barry AT Newell,Susan Dilly,Caroline Finlayson,Mitesh Gandhi,Sunil Lakhani,2009-01-30 Once students have learned the principles behind basic pathology and the mechanisms of disease they must then consolidate their knowledge by putting those principles into clinical practice Providing a practical learning experience this volume presents fifty structured clinical scenarios Each case is based on a clinical situation that pulls toge Accurate Results in the Clinical Laboratory Amitava Dasgupta,Jorge L. Sepulveda,2019-07-20 Accurate Results in the Clinical Laboratory A Guide to Error Detection and Correction Second Edition provides a comprehensive review of the factors leading to errors in all areas of clinical laboratory testing This trusted guide addresses interference issues in all laboratory tests including patient epigenetics processes of specimen collection enzymes and biomarkers Clinicians and laboratory scientists will both benefit from this reference that applies discussions to both accurate specimen analysis and optimal patient care Hence this is the perfect reference for clinical laboratorians from trainees to experienced pathologists and directors Provides comprehensive coverage across endocrine oncology hematology immunohistochemistry immunology serology microbiology and molecular testing Includes new case studies that highlight clinical relevance and errors to avoid Highlights the best titles published within a variety of medical specialties Reviewed by medical librarians and content specialists with key selections compiled in their annual list

Topics in Ecological and Environmental Microbiology Thomas Mitchell Schmidt, Moselio Schaechter, 2011-09-28

This book provides an overview of ecological aspects of the metabolism and behavior of microbes microbial habitats biogeochemical cycles and biotechnology It was designed by selecting relevant chapters from the comprehensive Encyclopedia of Microbiology 3rd edn and inviting the original authors to update their material to include key developments and advances in the field *Microbial response to a rapidly changing marine environment: Global warming and ocean acidification, volume II* Mi Sun Yun, Jun Sun, Connie Lovejoy, Sang Heon Lee, 2023-01-05 Living in a Microbial World, Second Edition Bruce Hofkin, 2017-03-02 As with the first edition this new 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 rigour 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 **Quantitative Microbial Risk Assessment** Charles N. Haas, Joan B. Rose, Charles P. Gerba, 2014-07-08 Provides the latest QMRA methodologies to determine infection risk cause by either accidental microbial infections or deliberate infections caused by terrorism Reviews the latest methodologies to quantify at every step of the microbial exposure pathways from the first release of a pathogen to the actual human infection Provides techniques on how to gather information on how each microorganism moves through the environment how to determine their survival rates on various media and how people are exposed to the microorganism Explains how QMRA can be used as a tool to measure the impact of interventions and identify the best policies and practices to protect public health and safety Includes new information on genetic methods Techniques use to develop risk models for drinking water groundwater recreational water food and pathogens in the indoor environment Microbial Fuels Farshad Darvishi Harzevili, Ir Serge Hilgsmann, 2017-09-18 The book will highlight major trends and developments in the field of microbial fuels with contributions from a number of highly experienced researchers It will serve as a comprehensive reference for industrial stakeholders scientists researchers and graduate students interested in microbial fuels The aims of this work are to present the technologies and perspectives taking into account different socio economical contexts A specific chapter will focus on the general perspectives of microbial fuels for low income and emerging countries Microbial Ecotoxicology Stéphane Pesce, Fabrice Martin-Laurent, Ed Topp, Ghiglione Jean-Francois, 2020-07-17 Public, Professionals and Preservation Vicki Richards, Jennifer McKinnon, 2009 In September 2008 a combined annual conference for the

Australasian Institute for Maritime Archaeology the Australasian Society for Historical Archaeology and the Australian Association for Maritime History was held at the magnificent Institute Building of the State Library of South Australia in Adelaide The conference was entitled Archaeology from Below Engaging the Public and hoped to address the relationship between archaeology and the public Papers presented in this session broaden discussions on the interactions of professionals and the public with respect to in situ stabilisation preservation and management of terrestrial and underwater cultural heritage sites and their associated archaeological finds

Environmental Microbiology Ian Pepper, Charles P. Gerba, Terry Gentry, 2014-03-01 Designed for advanced undergraduate students graduate students and environmental professionals this book builds upon the tremendous success of the previous editions with a comprehensive and up to date discussion of environmental microbiology as a discipline that has greatly expanded in scope and interest over the past several decades From terrestrial and aquatic ecosystems to urban and indoor environments this edition relates environmental microbiology to a variety of life science ecology and environmental science topics including biogeochemical cycling bioremediation environmental transmission of pathogens microbial risk assessment and drinking water treatment and reuse The final chapter highlights several emerging issues including microbial remediation of marine oil spills microbial contributions to global warming impact of climate change on microbial infectious disease and the development of antibiotic resistant bacteria Presents state of the art research results with key recent references to document information Emphasizes critical information using Information Boxes throughout Includes real world case studies to illustrate concepts along with frequent use of graphics cartoons and photographs Offers questions at the end of each chapter designed to test key concepts Lecture slides available for instructors online

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