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A study presented at the European Congress of Clinical Microbiology & Infectious Diseases (ECCMID) held online this year shows that long-term exposure to high levels of air pollutants, specifically, ...

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Study Details Effect of Long-Term Pollutant Exposure on COVID-19 Patients

Clinical research on COVID-19 has boomed in the 18 months since the disease first appeared. Countless papers have looked at the topic from almost every possible angle, including methods of detection.

A comprehensive review on diagnostics of COVID-19

For a new paper published in the journal *Clinical Microbiology Reviews*, a team of researchers led by Concordia engineers sifted through hundreds of papers on COVID-19 detection tools and ...

Researchers break down the COVID-19 diagnostic arsenal

It is possible to be infected with two

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different strains of the coronavirus at the same time, experts say, after the case of an unvaccinated elderly woman who was found to be infected with both the ...

Rare case shows it's possible to have two Covid variants at the same time, experts say

We are also developing in vivo killing assays to guide the development of such a vaccine ... to those being unraveled in the Turnbough lab. Recent studies suggest that this is indeed the case and that ...

Microbial Pathogenesis Projects

Studies of the microbiome have been successful in teaching us more about the roles microbes play in human health and disease. Microbiology & Immunology 2016 highlights new

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research in this area as ...

Microbiology & Immunology

MALDI-based resequencing is an accurate, flexible and efficient alternative to conventional DNA sequencing applications in microbiology ... As is the case for MALDI resequencing, specific PCR ...

Mass spectrometry tools for the classification and identification of bacteria

In addition to being the first death, the researchers believe that Patient 1 is also the earliest described case of community ... from the swabs used in the study, and found evidence of community ...

'Overly stringent' criteria early in the pandemic led to missed diagnoses of

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COVID-19

She died in hospital five days after being infected in March. The annual European Congress on Clinical Microbiology and Infectious Diseases discussed her unique case, according to reports. While cases ...

*Can someone be infected by two coronavirus variants at the same time?
Here's what studies say*

Severe forms of coronavirus disease (COVID-19) linked to high mortality rates might arise in a minority of fully-vaccinated individuals with many co-occurring medical conditions, finds a recent study ...

Israeli study of breakthrough infections following full BNT-Pfizer vaccination, 40% immunocompromised

A new study reports the discovery of

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an elderly woman in Belgium who had been infected with two SARS-CoV-2 variants at the same time. The patient, who sadly died from the virus only days after ...

Researchers find COVID-19 case that involved two variants at the same time
Antibody testing of health care workers in three rural counties in eastern South Dakota and western Minnesota showed 15% of the study participants had antibodies to the novel coronavirus.

SDSU Study Shows Low COVID-19 Infection Rate In Health Care Workers
A flu shot might offer some protection against severe effects of COVID-19, a new study suggests. If you are infected with COVID-19, having had a flu shot makes it less likely you will

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suffer severe ...

*Flu shot may help prevent severe
COVID-19, study says*

A 90-year-old woman in Belgium died after being infected with two coronavirus variants at the same time, while a study concluded the U.S. vaccine rollout has saved 279,000 lives. Cleveland.com is ...

*Woman dies after being infected with
two COVID-19 variants; study
concludes vaccines saved 279,000
lives in U.S.: Coronavirus update for
July 13, 2021*

Long-term exposure to high levels of air pollutants, especially fine particulate matter (PM2.5), appears to have a significant influence on outcomes for people hospitalised with COVID-19, according to ...

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Air pollution contributes to COVID-19 severity, suggests study in one of America's most polluted cities

People who feed their dogs raw pet food may find more on the menu than they bargained for, with a new study finding it may be a source of antibiotic-resistant bacteria that could ultimately threaten ...

'Superbugs' detected in raw dog food, but danger unclear, study says

A press release issued on Sunday said the study was carried out by a team of researchers at the Department of Microbiology of Dhaka Medical College Hospital (DMCH) in order to determine the antibody ...

Study: Oxford-AstraZeneca vaccine develops antibodies in 93% recipients

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after 2nd dose

In two preliminary studies that will be presented at the European Congress of Clinical Microbiology & Infectious ... why this is the case. “It could be something as simple as most dogs have long ...

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

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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.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The most concise, clinically relevant, and current review of medical microbiology and immunology *Review of Medical Microbiology and Immunology* is a succinct, high-yield review of the medically important aspects of microbiology and

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immunology. It covers both the basic and clinical aspects of bacteriology, virology, mycology, parasitology, and immunology and also discusses important infectious diseases using an organ system approach. The book emphasizes the real-world clinical application of microbiology and immunology to infectious diseases and offers a unique mix of narrative text, color images, tables and figures, Q&A, and clinical vignettes. • Content is valuable to any study objective or learning style • Essential for USMLE review and medical microbiology coursework • 650 USMLE-style practice questions test your knowledge and understanding • 50 clinical cases illustrate the importance of basic science information in clinical diagnosis • A complete USMLE-style practice exam consisting of 80

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questions helps you prepare for the exam • Pearls impart important basic science information helpful in answering questions on the USMLE • Concise summaries of medically important organisms • Self-assessment questions with answers appear at the end of each chapter • Color images depict clinically important findings, such as infectious disease lesions • Gram stains of bacteria, electron micrographs of viruses, and microscopic images depict fungi, protozoa, and worms • Chapters on infectious diseases from an organ system perspective

Laboratory Applications in Microbiology: A Case Study Approach uses real-life case studies as the basis for exercises in the laboratory. This is the only microbiology lab manual

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focusing on this means of instruction, an approach particularly applicable to the microbiology laboratory. The author has carefully organized the exercises so that students develop a solid intellectual base beginning with a particular technique, moving through the case study, and finally applying new knowledge to unique situations beyond the case study.

Outbreak: Cases in Real-World Microbiology, 2nd Edition, is the newest edition of this fascinating textbook designed for introductory microbiology students and instructors. Thoroughly revised, this collection of case studies of real-world disease outbreaks, generously illustrated in full color, offers material that directly impacts college-level students, while the book's unique presentation offers

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instructors the flexibility to use it effectively in a number of ways. More than 90 outbreak case studies, organized into six sections according to the human body system affected, illustrate the wide range of diseases caused by microbial pathogens. The studies are presented at differing levels of difficulty and can be taught at all undergraduate levels. Each case study includes questions for students to think about, discuss, and answer, and the book includes an appendix that directs students to the specific reference material on which each case was based, providing the opportunity to investigate further and to apply the reference content to the case being studied. Each of the six sections of the book concludes with a College Perspective and a Global Perspective case study. The College Perspective

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provides a direct and practical link between the microbiology course and the daily lives of students. The Global Perspective connects students with outbreaks that have occurred in countries around the world to facilitate understanding of the social, religious, economic, and political values at play in the treatment and prevention of infectious disease. At the end of every section, detailed descriptions offer concise yet complete information on each disease involved in that section.

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

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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 summary of Key Points from the main text helps students clearly identify key concepts covered in each chapter. Review Questions in each chapter test students on important knowledge in addition to key terms and abbreviations. Case studies in each chapter offer challenging questions for further analysis, and challenge students to apply their knowledge to the real world.

The single most comprehensive resource for environmental microbiology Environmental microbiology, the study of the roles

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that microbes play in all planetary environments, is one of the most important areas of scientific research. The Manual of Environmental Microbiology, Fourth Edition, provides comprehensive coverage of this critical and growing field. Thoroughly updated and revised, the Manual is the definitive reference for information on microbes in air, water, and soil and their impact on human health and welfare. Written in accessible, clear prose, the manual covers four broad areas: general methodologies, environmental public health microbiology, microbial ecology, and biodegradation and biotransformation. This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community. Specifically, this new

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edition of the Manual Contains completely new sections covering microbial risk assessment, quality control, and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists, microbial ecologists, and environmental engineers, as well as those interested in human diseases, water and wastewater treatment, and biotechnology.

Cases in Medical Microbiology and
Infectious Diseases challenges

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students to develop a working knowledge of the variety of microorganisms that cause infections in humans. This valuable, interactive text will help them better understand the clinical importance of the basic science concepts presented in medical microbiology or infectious disease courses. The cases are presented as "unknowns" and represent actual case presentations of patients the authors have encountered. Each case is accompanied by several questions to test knowledge in four broad areas including the organism's characteristics and laboratory diagnosis; pathogenesis and clinical characteristics of the infection; epidemiology; and prevention and, in some cases, drug resistance and treatment. This new fourth edition includes: an entirely new section,

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"Advanced Cases," which includes newly recognized disease agents as well as highly complex cases where the interaction of the immune system and human pathogens can be more closely examined a revised "Primer on the Laboratory Diagnosis of Infectious Diseases" section that reflects the increasing importance of molecular-based assays Forty-two new cases that explore the myriad advances in the study of infectious disease in the past decade Thirty-two updated cases that reflect the current state of the art as it relates to the organism causing the infection This textbook also include specific tools to assist students in solving the cases, including a table of normal values, glossary of medical terms, and figures illustrating microscopic organism morphology, laboratory tests, and clinical

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symptoms. Cases in Medical Microbiology and Infectious Diseases is a proven resource for preparing for Part I of the National Board of Medical Examiners Exam and an excellent reference for infectious disease rotations.

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

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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.

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Understanding the origin of fecal pollution is essential in assessing potential health risks as well as for determining the actions necessary to remediate the quality of waters contaminated by fecal matter. As a result, microbial source tracking (MST) has emerged as a field that has evolved and diversified rapidly since the first approaches were described only a decade ago. In response to the emergence of MST, there have been three large multi-laboratory method comparison studies (two in the US and one in Europe), plus numerous workshops, book chapters, and review articles dedicated to synthesizing information on the topic. Furthermore, a federal (USEPA) guide document describing the uses and limitations of MST methods was published in 2005,

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and a book dedicated to MST as an emerging issue in food safety was published in 2007. These documents provide a collective body of literature on MST that is both conflicting and complementary, often repetitious, and difficult to condense and interpret. In addition, it does not reflect the current diversity of MST approaches with different organisms, newer methodologies such as quantitative PCR, and anthropogenic chemicals, nor does it embrace the scope of MST research being conducted around the world. The three editors of the book, all with extensive MST expertise, have developed chapters and invited authors who reflect the rich diversity and truly international scope of MST. The unifying theme throughout the book is the design of more standardized approaches to MST that

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include performance criteria (regardless of method or organism), plus recommendations for field study design and MST implementation. The editors intend that this book will serve as a valuable reference for all those who are involved with

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