
Environmental Microbiology By Ian L Pepper

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Microbiology
By Ian L
Pepper*

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CABRERA COLLINS

**Brock Biology of
Microorganisms**

Woodhead Publishing

Section one: Basic
Protocols. Experiment 1:
Dilution and Plating of
Bacteria and Growth
Curves. Overview. Theory

and Significance.
 Procedure. Tricks of the
 Trade. Potential Hazards.
 Example Calculation of
 mean Generation time.
 Questions and Problems.
 Reference. EXPERIMENT
 2: Soil Moisture Content
 Determination.
 Overview. Theory and
 Significance. Procedure.
 Tricks of the Trade.
 Potential Hazards.
 Example Calculations.
 Questions and Problems.
 References. SECTION
 TWO: Examination of Soil
 Microorganisms Via
 Microscopic and Cultural
 Assays. EXPERIMENT 3:

Contact Slide Assay.
 Overview. Theory and
 Significance. Procedure.
 Tricks of the Trade..
 Potential Hazards.
 Questions and Problems.
 References. EXPERIMENT
 4: Filamentous Fungi.
 Overview. Theory and
 Significance. Procedure.
 Tricks of the Trade.
 Potential Hazards..
 Calculations. Questions
 and Problem. References.
 EXPERIMENT 5: Bacteria
 and Actinomycetes.
 Overview. Theory and
 Significance. Procedure.
 Tricks of the Trade.
 Potential Hazards.

Questions and Problems.
 References. EXPERIMENT
 6: Algae: Enumeration by
 MPN. Overview. Theory
 Procedure. Tricks of the
 Trade. Potential Hazards.
 Calculations. Questions
 and Problems.
 References. SECTION
 THREE: Microbial
 Transformations and
 Response to
 Contaminants.
 Overview. Theory.
 Procedure. Tricks of the
 Trade. Potential Hazards.
 Calculations. Questions
 and Problems. References.
 EXPERIMENT 8:
 Dehydrogenase Activity of

Soils. Overview. Theory. Procedure. Tricks of the Trade. Potential Hazards. Example Calculations. Questions and Problems. Reference. EXPERIMENT 9: Nitrification and Denitrification. Overview. Theory. Procedure. Tricks of the Trade. Potential Hazards. Assignment and Questions. References. EXPERIMENT 10: Enrichment and Isolation of Bacteria that Degrade 2,4-Dichlorophenoxyacetic Acid. Overview. Theory and Significance. Procedure; Tricks of the

Trade. Potential Hazards. Questions and Problems. References. EXPERIMENT 11: Adaptation of Soil Bacteria to Metals. Overview. Theory and Significance. Procedure. Tricks of the Trade. Potential Hazards. Questions and Problems. References. EXPERIMENT 12: Biodegradation of Phenol Compounds. Overview. Theory and Significance. Procedure. Potential Hazards. Calculations. Questions and Problem. References. EXPERIMENT 13:

Assimilable Organic Carbon. Overview. Theory and Significance. Procedure. Tricks of the Trade. Calculations. Questions and Problems. References. EXPERIMENT 14: Biochemical Oxygen Demand. Overview. Theory and Significance. Procedure. Tricks of the Trade. Potential Hazards. Calculations. Questions and Problems. References. SECTION FOUR: Water Microbiology. EXPERIMENT 15: Bacteriological Examination of Water:

The Coliform MPN Test. Overview. Theory and Significance. Procedure. Tricks of the Trade. Calculations. Questions and Problems. Reference. EXPERIMENT 16: Membrane Filter Technique. Overview. Theory and Significance. Procedure. Tricks of the Trade. Potential Hazards. Calculations. Questions and Problems. Reference. EXPERIMENT 17: Defined Substrate Technology for the Detection of Coliforms and Fecal Coliforms. Overview. Theory and Significance. Procedure.

Tricks of the Trade. Potential Hazards. Calculations. Questions and Problems. References. EXPERIMENT 18: Film Medium for the Detection of Coliforms in Water, Food, and on Surfaces. Overview. Theory and Significance. Procedure. Tricks of the Trade. Questions and Problems. References. EXPERIMENT 19: Detection of Bacteriophages. Overview. Theory and Significance. Procedure. Tricks of the Trade. Potential Hazards. Calculations. Questions

and Problems. Reference. SECTION FIVE: Advanced Topics. EXPERIMENT 20: Detection of Enteric Viruses in Water. Overview. Theory and Significance. Procedure. Questions and Problems. References. EXPERIMENT 21: Detection of Waterborne Parasites. Overview. Theory and Significance. Procedure. Questions and Problems. References. EXPERIMENT 22: Kinetics of Disinfection. Overview. Theory and Significance. Procedure. Tricks of the

Trade. Potential Hazards. Calculations. Questions and Problems. Reference. EXPERIMENT 23: Aerobiology Sampling of Airborne Microorganisms. Overview. Theory and Significance. Procedure. Tricks of the Trade. Potential Hazards. Calculations. Questions and Problems. Reference. EXPERIMENT 24: Detection and identification of Bacteria Via PCR and Subsequent BLAST Analysis of Amplified Sequences. Overview. Theory and Significance. Procedure.

Tricks of the Trade. Potential Hazards. Questions and Problems. Reference. APPENDIX 1: Preparation of Media and Stains for Each Experiment. APPENDIX 2: Glossary.

Environmental Microbiology Apress
For courses in General Microbiology. A streamlined approach to master microbiology Brock Biology of Microorganisms is the leading majors microbiology text on the market. It sets the standard for impeccable

scholarship, accuracy, and strong coverage of ecology, evolution, and metabolism. The 15th edition seamlessly integrates the most current science, paying particular attention to molecular biology and the genomic revolution. It introduces a flexible, more streamlined organization with a consistent level of detail and comprehensive art program. Brock Biology of Microorganisms helps students quickly master concepts, both in and outside the classroom,

through personalized learning, engaging activities to improve problem solving skills, and superior art and animations with Mastering(tm) Microbiology. Also available with Mastering Microbiology. Mastering(tm) Microbiology is an online homework, tutorial, and assessment product designed to improve results by helping students quickly master concepts. Students benefit from self-paced tutorials that feature

personalized wrong-answer feedback and hints that emulate the office-hour experience and help keep students on track. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts. Students, if interested in purchasing this title with Mastering Microbiology, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more

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Elsevier

Environmental and
Pollution Science, Third
Edition, continues its
tradition on providing
readers with the scientific
basis to understand,
manage, mitigate, and
prevent pollution across
the environment, be it air,
land, or water. Pollution
originates from a wide
variety of sources, both
natural and man-made,
and occurs in a wide
variety of forms including,
biological, chemical,
particulate or even
energy, making a
multivariate approach to
assessment and

mitigation essential for
success. This third edition
has been updated and
revised to include topics
that are critical to
addressing pollution
issues, from human-
health impacts to
environmental justice to
developing sustainable
solutions. Environmental
and Pollution Science,
Third Edition is designed
to give readers the tools
to be able to understand
and implement multi-
disciplinary approaches to
help solve current and
future environmental
pollution problems.

Emphasizes conceptual understanding of environmental systems and can be used by students and professionals from a diversity of backgrounds focusing on the environment Covers many aspects critical to assessing and managing environmental pollution including characterization, risk assessment, regulation, transport and fate, and remediation or restoration New topics to this edition include Ecosystems and Ecosystem Services,

Pollution in the Global System, Human Health Impacts, the interrelation between Soil and Human Health, Environmental Justice and Community Engagement, and Sustainability and Sustainable Solutions Includes color photos and diagrams, chapter questions and problems, and highlighted key words
Introduction to Environmental Microbiology
 Environmental Microbiology
 Over the past several decades, new scientific

tools and approaches for detecting microbial species have dramatically enhanced our appreciation of the diversity and abundance of the microbiota and its dynamic interactions with the environments within which these microorganisms reside. The first bacterial genome was sequenced in 1995 and took more than 13 months of work to complete. Today, a microorganism's entire genome can be sequenced in a few days. Much as our view of the

cosmos was forever altered in the 17th century with the invention of the telescope, these genomic technologies, and the observations derived from them, have fundamentally transformed our appreciation of the microbial world around us. On June 12 and 13, 2012, the Institute of Medicine's (IOM's) Forum on Microbial Threats convened a public workshop in Washington, DC, to discuss the scientific tools and approaches being used

for detecting and characterizing microbial species, and the roles of microbial genomics and metagenomics to better understand the culturable and unculturable microbial world around us. Through invited presentations and discussions, participants examined the use of microbial genomics to explore the diversity, evolution, and adaptation of microorganisms in a wide variety of environments; the molecular mechanisms of disease emergence and

epidemiology; and the ways that genomic technologies are being applied to disease outbreak trace back and microbial surveillance. Points that were emphasized by many participants included the need to develop robust standardized sampling protocols, the importance of having the appropriate metadata, data analysis and data management challenges, and information sharing in real time. The Science and Applications of Microbial Genomics summarizes

this workshop.

*Environmental
Microbiology* Elsevier

"Show me any civilization that believes that reality exists only because man can perceive it, that the cosmos was erected to support man on its pinnacle, that man is exclusively divine, and then I will predict the nature of his cities and its landscapes, the hot dog stands, the neon shill, the ticky-tacky houses, the sterile core, the mined and ravaged countryside. This is the image of anthropocentric man. He

seeks not unity with nature but conquest, yet unity he finds, when his arrogance and ignorance are stilled and he lies dead under the greensward." Ian L. McHarg *Multiply and Subdue the Earth*, 1969 "No living American has done more to usher the gentle science of ecology out of oblivion and into mainstream thought than Ian McHarg—a teacher, philosopher, designer, and activist who changed the way we view and shape our environment." From the foreword by Stewart L.

Udall Published in cooperation with the Center for American Places, Harrisonburg, Virginia *A Quest for Life* is the autobiography of a man who stands alongside Rachel Carson, Lewis Mumford, and Aldo Leopold as one of the giants of the environmental movement. In a robust and singular voice, Ian McHarg recounts the story of a life that has foreshadowed and eventually shaped environmental consciousness in the twentieth century. Along

the way we meet prominent figures in the environmental movement, the design fields, and the government, from Walter Gropius to Lady Bird Johnson, all presented in rich and telling anecdotes. Early in *A Quest for Life* McHarg presents us with an arresting image. Describing the view from his boyhood home on the outskirts of Glasgow, he tells us that in one direction he could see the industrial miasma of smokestacks, tenements, and treeless streets, and, in another, the glories of

the Scottish countryside. "I was born and bred," he writes, "on a fulcrum with two poles, city and countryside." Confronted with such a stark contrast, the man who was to become "the founder of ecological planning" began at an early age to turn literally from inhumane urban development and toward the beauty and power of Nature. Each chapter of this book illuminates key stages in McHarg's life and in the evolution of his environmental awareness. We see him as a youth

standing on a hillside beside the impressive Donald Wintersgill who, with the wave of his cane, lays out an entire village complete with lakes and forests, and thus introduces the astonished McHarg to the profession of landscape architecture. In some of the bloodiest battles of the Second World War he witnesses the magnitude of human destructive capability. Later, when he faces a crisis of conscience over his religious training and its exhortation to gain dominion over life and

subdue the earth, he begins to develop a deep spiritual appreciation for the sanctity of Nature itself. His training as a designer and planner in the Modernist Bauhaus tradition, with its neglect of the environment; his bouts with tuberculosis that showed him the link between public health and city planning; his famous "Man—The Planetary Disease" speech before powerful industrialists—all stand as emblematic of battles that are still being fought today. *A Quest for Life* also chronicles the

many triumphs in McHarg's career. It offers fresh insight into the revolutionary design method behind his groundbreaking book, *Design with Nature*, and explores the development of geographical information systems. We learn firsthand about his work on the celebrated regional plans for Denver and the Twin Cities, as well as the Woodlands new town project. His most enduring contribution, however, may prove to be his four decades of teaching at

the University of Pennsylvania. Through the generations of landscape architects, designers, and planners he taught there, his influence has spread around the world and into the future. As the compelling, first-person story of a remarkable individual who not only manned the barricades against environmental destruction, but helped lay the foundation for the barricades themselves, *A Quest for Life* is must reading for landscape architects, designers,

conservationists, planners, and others concerned with the preservation of our communities and the natural environment.

From Genomes to Biogeochemistry

Academic Press

Anemones and fish, ants and acacia trees, fungus and trees, buffaloes and oxpeckers--each of these unlikely duos is an inimitable partnership in which the species' coexistence is mutually beneficial. More specifically, they represent examples of

defensive mutualism, when one species receives protection against predators or parasites in exchange for offering shelter or food to its partner species.

Explores the Diverse Range of Defensive Mutualisms Involving Microbial Symbionts The past 20 years, since this phenomenon first began receiving attention, have been marked by a deluge of research in a variety of organism kingdoms and much has been discovered about this intriguing behavior.

Defensive Mutualism in Microbial Symbiosis includes basic ecological and biological information on defensive mutualisms, explores how they function, and evaluates how they have evolved. It also looks at the implications of symbiosis defensive compounds as a new frontier in bioexploration for drug and natural product discovery--the first book to explore this possibility. Chapters Written by Field Authorities The book expands the concept of defensive mutualisms to

evaluate defense against environmental abiotic and biotic stresses.

Addressing the topic of defensive mutualisms in microbial symbiosis across this wide spectrum, it includes chapters on defensive mutualistic associations involving multiple kingdoms of organisms in terrestrial and aquatic ecosystems--plant, animal, fungi, bacteria, and protozoans.

Defensive Mutualism in Microbial Symbiosis unifies scattered findings into a single compendium,

providing a valuable reference for field researchers and those in academia to assimilate and acquire a knowledgeable perspective on defensive mutualism, particularly those involving microbial partners.

A Pocket Guide to Business for Engineers and Surveyors Springer Nature
 Environmental Engineering: Principles and Practice is written for advanced undergraduate and first-semester graduate courses in the

subject. The text provides a clear and concise understanding of the major topic areas facing environmental professionals. For each topic, the theoretical principles are introduced, followed by numerous examples illustrating the process design approach. Practical, methodical and functional, this exciting new text provides knowledge and background, as well as opportunities for application, through problems and examples

that facilitate understanding. Students pursuing the civil and environmental engineering curriculum will find this book accessible and will benefit from the emphasis on practical application. The text will also be of interest to students of chemical and mechanical engineering, where several environmental concepts are of interest, especially those on water and wastewater treatment, air pollution, and sustainability. Practicing engineers will find this

book a valuable resource, since it covers the major environmental topics and provides numerous step-by-step examples to facilitate learning and problem-solving. *Environmental Engineering: Principles and Practice* offers all the major topics, with a focus upon:

- a robust problem-solving scheme
- introducing statistical analysis;
- example problems with both US and SI units;
- water and wastewater design;
- sustainability;
- public health. There is

also a companion website with illustrations, problems and solutions. *A Field Guide to Bacteria* Academic Press

Pulling from his 30+ years of experience running his own engineering and surveying services firm, Ed Bergeron gathers, in concise, practical, and often amusing writing, all the information an engineer or surveyor needs to know to grow their career, expand their business, manage staff and projects, understand the financial and legal aspects of their work, and

conduct themselves in a professional and ethical manner when dealing with clients and colleagues. Both the fields of surveying and engineering are making strides towards advancing their stature by increasingly requiring licensure, expanding continuing education offerings, and adding elements of professional practice into all levels of education. This book presents the skills that differentiate the technician from the professional, and will

serve as a tool for the advancement of the profession.

Cereal Grains Academic Press

This book brings together contributions from global experts who have helped to facilitate the exciting and rapid advances that are taking place in microbial metabolomics. The main application of this field is in clinical and veterinary microbiology, but there is a great potential to apply metabolomics to help to better understand complex biological

systems that are dominated by multiple-species microbial populations exposed to changing growth and nutritional conditions. In particular, environmental (e.g., water, soil), food (e.g., microbial spoilage, food pathogens), and agricultural and industrial applications are seen as developing areas for microbial metabolomics. As such, the book includes contributions with clinical, environmental, and industrial perspectives. [Workshop Summary](#)
Elsevier

The book is oriented towards undergraduates science and engineering students; postgraduates and researchers pursuing the field of microbiology, biotechnology, chemical - biochemical engineering and pharmacy. Various applications of microorganisms have been covered broadly and have been appropriately reflected in depth in 12 different chapters. The book begins with an insight to the diverse niche of microorganisms which have been explored and exploited in

development of various biotechnological products and green processes. Further, how these microorganisms have been genetically modified to improve the desired traits for achieving optimal production of microbially derived products is discussed in the second chapter. Major route of production of microbially derived products and processes is through fermentation technology and therefore due emphasis on different aspects of fermentation technology has been

given in the subsequent chapter. The development and deployment of biopesticides and biofertilizers which find tremendous application have been separately discussed under agricultural applications. Application of microbes for the removal of pollutants, recovery of metals and oils has also been discussed under environmental applications. The role of microbial systems in development of fermented foods and beverages have also been

discussed in Chapter 6. The application of microbes in production of commodity chemicals and fine chemicals has also been discussed in separate chapters. A chapter has been dedicated to the tremendous applications of microbially produced enzymes in different industrial sectors. Another unique facet of this book is explaining the different methods by which desired traits of microorganisms have been improved for their efficacious and economical exploitation in

the industry. A chapter is dedicated to exploitation of microorganisms in development of vaccines for human and veterinary use. Finally, the last chapter discusses the role of immobilization in optimization of industrial processes and development of microbial biosensors for industrial applications. Thus, this book is a holistic approach providing information on the present applications of microorganisms. Methods and Protocols National Academies Press This edited volume

discusses the role of various microbial products in healthcare, environment and agriculture. Several microbial products are directly involved in solving major health problems, agricultural and environmental issues. In healthcare sector, microbes are used as anti-tumor compounds, antibiotics, anti-parasitic agents, enzyme inhibitors and immunosuppressive agents. Microbial products are also used to degrade xenobiotic compounds and bio-surfactants, for

biodegradation process. In agriculture, microbial products are used to enhance nutrient uptake, to promote plant growth, or to control plant diseases. The book presents several such applications of microbes in the ecosystems. The chapters are contributed from across the globe and contain up-to-date information. This book is of interest to teachers, researchers, microbiologists and ecologists. Also the book serves as additional reading material for

undergraduate and graduate students of agriculture, forestry, ecology, soil science, and environmental sciences.

Applications of Emerging Technologies

Springer

Written by leading experts in their respective fields, Principles and Applications of Soil Microbiology 3e, provides a comprehensive, balanced introduction to soil microbiology, and captures the rapid advances in the field such as recent discoveries regarding habitats and

organisms, microbially mediated transformations, and applied environmental topics. Carefully edited for ease of reading, it aids users by providing an excellent multi-authored reference, the type of book that is continually used in the field. Background information is provided in the first part of the book for ease of comprehension. The following chapters then describe such fundamental topics as soil environment and microbial processes,

microbial groups and their interactions, and thoroughly addresses critical nutrient cycles and important environmental and agricultural applications. An excellent textbook and desk reference, *Principles and Applications of Soil Microbiology, 3e*, provides readers with broad, foundational coverage of the vast array of microorganisms that live in soil and the major biogeochemical processes they control. Soil scientists, environmental scientists, and others,

including soil health and conservation specialists, will find this material invaluable for understanding the amazingly diverse world of soil microbiology, managing agricultural and environmental systems, and formulating environmental policy. Includes discussion of major microbial methods, embedded within topical chapters Includes information boxes and case studies throughout the text to illustrate major concepts and connect fundamental knowledge

with potential applications Study questions at the end of each chapter allow readers to evaluate their understanding of the materials

Defensive Mutualism in Microbial Symbiosis

Springer

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice

tests. Only Cram101 is Textbook Specific.

Accompanies: 9780123946263. This item is printed on demand.

Small & Decentralized Wastewater Management Systems Walter de Gruyter GmbH & Co KG

Written for curious souls of all ages, this title opens readers eyes--and noses and ears--to this hidden world. Useful illustrations accompany Dyer's lively text.

Environmental Monitoring and Characterization
Morton Publishing

Company

This is the first definitive and authoritative book available on ActionScript 3 animation techniques. ActionScript animation is a very popular discipline for Flash developers to learn. The essential skill set has been learned by many Flash developers through the first edition of this book. This has now been updated to ActionScript 3, Adobe's new and improved scripting language. All of the code has been updated, and some new techniques have been

added to take advantage of ActionScript 3's new features, including the display list and new event architecture. The code can be used with the Flash 9 IDE, Flex Builder 2, or the free Flex 2 SDK.
Advances in

Phytoplankton Ecology
Frontiers Media SA

Cereal Grains: Assessing and Managing Quality, Second Edition, provides a timely update to this key reference work.

Thoroughly revised from the first edition, this volume examines the latest research and

advances in the field. New chapters have been added on alternative grains, including ancient grains and pseudocereals, biosecurity, and industrial processing of grains, amongst others. Quality and food safety are important throughout the value-addition chain, from breeding, production, harvest, storage, transport, processing, and marketing. At all stages, analysis is needed so that quality management can proceed intelligently. These considerations are examined for each of the

major cereal species, including wheat (common and durum), rye and triticale, barley and oats, rice, maize (corn), pseudocereal species, sorghum, and the millets. Divided into five sections, the book analyses these for the range of cereal species before a final section summarizes key findings. Documents the latest research in cereal grains, from their nutraceutical and antioxidant traits, to novel detection methods. Provides a complete and thorough update to the

first edition, analyzing the range of major cereal species. Presents detailed advice on the management of cereal quality at each stage of production and processing. *Environmental Microbiology* Springer. The single most comprehensive and authoritative textbook on bacterial molecular genetics. Snyder & Champness. *Molecular Genetics of Bacteria* is a new edition of a classic text, updated to address the massive advances in the field of bacterial

molecular genetics and retitled as homage to the founding authors. In an era experiencing an avalanche of new genetic sequence information, this updated edition presents important experiments and advanced material relevant to current applications of molecular genetics, including conclusions from and applications of genomics; the relationships among recombination, replication, and repair and the importance of organizing sequences in

DNA; the mechanisms of regulation of gene expression; the newest advances in bacterial cell biology; and the coordination of cellular processes during the bacterial cell cycle. The topics are integrated throughout with biochemical, genomic, and structural information, allowing readers to gain a deeper understanding of modern bacterial molecular genetics and its relationship to other fields of modern biology. Although the text is

centered on the most-studied bacteria, *Escherichia coli* and *Bacillus subtilis*, many examples are drawn from other bacteria of experimental, medical, ecological, and biotechnological importance. The book's many useful features include Text boxes to help students make connections to relevant topics related to other organisms, including humans. A summary of main points at the end of each chapter. Questions for discussion and

independent thought A list of suggested readings for background and further investigation in each chapter Fully illustrated with detailed diagrams and photos in full color A glossary of terms highlighted in the text While intended as an undergraduate or beginning graduate textbook, *Molecular Genetics of Bacteria* is an invaluable reference for anyone working in the fields of microbiology, genetics, biochemistry, bioengineering, medicine, molecular biology, and

biotechnology. "This is a marvelous textbook that is completely up-to-date and comprehensive, but not overwhelming. The clear prose and excellent figures make it ideal for use in teaching bacterial molecular genetics."
—Caroline Harwood, University of Washington
Pollution Science Springer
Science & Business Media
One of the primary references on analytical methods in soil science, Part 2 of the *Methods* series will be useful to all biogeoscientists, especially those with an

interest in microbiology or bioremediation.

An Autobiography

McGraw-Hill

Science/Engineering/Math

Designed for major and non-major students taking an introductory level microbiology lab course.

Whether your course caters to pre-health professional students, microbiology majors or pre-med students, everything they need for a thorough introduction to the subject of microbiology is right here.

The Structure and Function of Aquatic

Microbial Communities

John Wiley & Sons

The purpose of this book is to bring together, in a single volume, the most up-to-date information concerning microbes with potential as bioterrorist weapons. The primary audience includes

microbiologists, including bacteriologists, virologists and mycologists, in academia, government laboratories and research institutes at the forefront of studies concerning microbes which have potential as bioterrorist weapons, public health physicians and

researchers and scientists who must be trained to deal with bioterrorist attacks as well as laboratory investigators who must identify and characterize these microorganisms from the environment and from possibly infected patients.