

# Microbiology

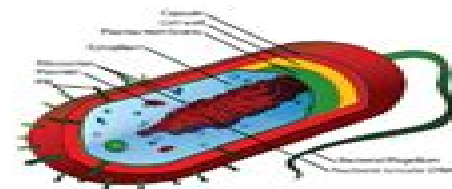
## Lecture 1 Notes: Introduction to Microbiology

### Course Outline

- The coursework constitutes 50% of the grade and involves labster simulations, write ups, a poster, oral presentation, and Moodle quizzes (10%).
- Two practicals (20%): bacterial identification (10%) via 3 labster simulations and Gram stain method section (150 words) and a bacterial growth cure (10%) via 2 labster simulations and a results section.
- Team-work exercise in groups of 4. Involves reviewing a research paper together and creating a poster (10%). Then, there is an individual oral presentation of the whole poster (15%) via Panopto.

### Introduction to Microbiology

- Microbiology is the study of microscopic organisms (generally  $<100\mu\text{m}$ ), such as bacteria, archaea, viruses, fungi, moulds, helminths (worms) and protists (can include prokaryotes and eukaryotes).
- Prokaryotic organisms include bacteria and archaea. On the other hand, eukaryotic organisms include protists (e.g. slime, moulds, protozoans and algae), fungi (e.g. yeast, multicellular moulds and mushrooms), plants (e.g. mosses, ferns, conifers and flowering plants) and animals (e.g. sponges, worms, insects and vertebrates). Viruses are neither prokaryotes or eukaryotes because they are not 'living', cellular organisms (i.e. because they cannot reproduce independently of a host).
- Organisms are referred to in Latin (italicised) using the genus (capitalised) and species (e.g. *Bacillus subtilis*). After mentioning this once in a piece of writing, it can be abbreviated to the first initial of the genus and the species (e.g. *B. subtilis*).
- A classification scheme provides us with a list of characteristics that can be used to help identify an organism. Identification of an organism involves morphology analysis, differential staining, and biochemical tests.
- Microorganisms are involved in a range of different activities which are important for welfare. For example, this includes:
  - (a) Veterinary science (animal health and disease)
  - (b) Agriculture (plant health and disease, nitrogen fixation)
  - (c) Environmental (waste and recycling, biofuels)
  - (d) Food industries (cheese production, beer production, etc.)
  - (e) Human health (disease, protection against disease, natural bodily function)
- Bacteria are present in all habitats. They are a few  $\mu\text{m}$  in length and can have many different morphologies. Most bacteria have not yet been characterised as not all can be cultured *in vitro*. Some bacteria can live symbiotically with a host (e.g. are involved in several processes useful for human health) whilst others are very pathogenic.
- Bacterial morphologies include:



# Micro Biology Lecture Note Carter Center

**Carl A. Batt**



## **Micro Biology Lecture Note Carter Center:**

Medical Microbiology Anil K. Sharma, Girish Kumar Gupta, Mukesh Yadav, 2022-04-04 Medical Microbiology is an excellent and easy to use textbook which explains the roles of microorganisms in human health and illness. Written in a clear and engaging manner, the book provides an overview of pathogenic organisms, their diagnosis and treatment tools, as well as the molecular mechanisms of host-pathogen interactions and antimicrobial drug resistance.

**Toxicity and Waste Management Using Bioremediation** Rathoure, Ashok K., Dhatwalia, Vinod K., 2015-12-02 Bioremediation is an emerging field of environmental research. The objective of a bioremediation process is to immobilize contaminants, reactants, or to transform them into chemical products that do not pose a risk to human health and the environment. Toxicity and Waste Management Using Bioremediation provides relevant theoretical and practical frameworks and the latest empirical research findings on the remediation of contaminated soil and groundwater using bioorganisms. Focusing on effective waste treatment methodologies and management strategies that lead to improved human and environmental health, this timely publication is ideal for use by environmental scientists, biologists, policy makers, graduate students, and scholars in the fields of environmental science, chemistry, and biology.

Encyclopedia of Food Microbiology Carl A. Batt, 2014-04-02 Written by the world's leading scientists and spanning over 400 articles in three volumes, the Encyclopedia of Food Microbiology, Second Edition, is a complete, highly structured guide to current knowledge in the field. Fully revised and updated, this encyclopedia reflects the key advances in the field since the first edition was published in 1999. The articles in this key work heavily illustrate and fully revise since the first edition in 1999, highlighting advances in areas such as genomics and food safety to bring users up to date on microorganisms in foods. Topics such as DNA sequencing and E. coli are particularly well covered. With lists of further reading to help users explore topics in depth, this resource will enrich scientists at every level in academia and industry, providing fundamental information as well as explaining state-of-the-art scientific discoveries. This book is designed to allow disparate approaches from farmers to processors to food handlers and consumers and interests to access accurate and objective information about the microbiology of foods. Microbiology impacts the safe presentation of food. From harvest and storage to determination of shelf life to presentation and consumption, this work highlights the risks of microbial contamination and is an invaluable go-to guide for anyone working in Food Health and Safety. It has a two-fold industry appeal: 1) those developing new functional food products and 2) to all corporations concerned about the potential hazards of microbes in their food products.

Helminthologi Kedokteran dan Veteriner Teguh Wahyu Sardjono, Aswin Djoko Baskoro, Agustina Tri Endharti, Loeki Enggar Fitri, Sri Poeranto, Rivo Yudhinata, Brian Nugraha, 2020-02-29 Akhir-akhir ini makin banyak temuan dan penelitian yang membuktikan bahwa penyakit infeksi cacing tidak hanya berkutat terjadi di kalangan manusia atau binatang tertentu saja melainkan telah terjadi infeksi silang antara keduanya. Infeksi cacing pada hewan ternyata juga bisa terjadi pada manusia, dan sebaliknya, infeksi cacing pada manusia juga bisa terjadi pada hewan. Baik

hewan maupun manusia yang secara alami semula merupakan inang yang sebenarnya definitive atau inang perantara saja ternyata dapat juga bertindak sebagai inang tumpangan reservoir ataupun inang yang terjadi secara kebetulan atau kecelakaan incidental Buku ini menceritakan siklus hidup dan transmisi dari masing masing cacing yang menginfeksi manusia dan hewan sehingga pembaca dapat mengetahui dan memahami bagaimana infeksi silang tersebut dapat terjadi

Introduction to Biomass Energy Conversions Sergio Capareda, 2023-11-07 Introduction to Biomass Energy Conversions explores biomass energy conversions and characterization using practical examples and real world scenarios It begins with biomass resource estimation and extends to commercialization pathways for economical biomass conversion into high value materials chemicals and fuels With extended discussions of new sustainability issues in biofuels production such as carbon capture and sequestration the second edition has been updated with carbon footprint work life cycle analysis the growing circular economy and newer research directions of biomass resources such as graphene production from biochar This book covers thermo chemical conversion processes including torrefaction pyrolysis gasification and advanced gasification biomass liquefaction and combustion This book is intended for senior undergraduate students taking Renewable Energy Conversions Bio Energy Biomass Energy Introduction to Biofuels and Sustainability Engineering courses This book also features end of chapter problems exercises and case studies with a Solutions Manual available for instructors The eBook version includes the following digital enhancements Audio player Students can listen to an audio overview at the start of each chapter Pop ups Students can hover over important technical terms and keywords to instantly view definitions and actual images such as of biomass materials products equipment and pilot facilities Problem solving and objective type questions Over 450 questions are included Multiple choice quiz items with answers and solutions are provided at the end of each chapter These quizzes are carefully designed to satisfy all the key learning objectives for each chapter Indices for commonly used units and conversions and glossary of terms used in biomass conversion systems are provided to aid the students in problem solving Case studies Students will tackle case studies on bioenergy techno economics and feasibility particularly for biodiesel bioethanol and biogas productions as well as pyrolysis and gasification systems MS Excel templates are provided to conduct economic sensitivity analysis for each project Included in the case study package are short videos to guide the students on how to navigate through each case study project

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