

Microbiology

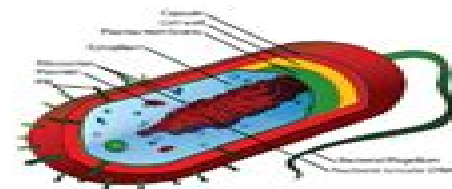
Lecture 1 Notes: Introduction to Microbiology

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 curve (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 μm 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:



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**Anil K. Sharma, Girish Kumar
Gupta, Mukesh Yadav**



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 hostpathogen interactions and antimicrobial drug resistance *Lecture Notes for Oral Microbiology, Biochemistry, Physiology* George Wesley Burnett, 1962 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 **Current Catalog** National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965 70 **Helmintologi 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 berkulat 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 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 illustrated and fully revised since the first edition in 1999 highlight 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 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

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