

# General microbiology

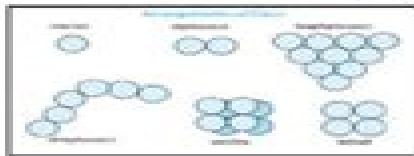
## Bacterial morphology

### Characterization of prokaryotic cells (all bacteria are prokaryotes)

- Size (diameter)
  - Most species have diameter of  $1\mu\text{m}$ .
  - The smallest bacteria are  $0.1\mu\text{m}$  (*Mycoplasma*)
  - The larger bacteria may reach up to  $10\mu\text{m}$ .



- Shape + arrangement- the shape is determined by the muric acid arrangement.
  - Coccus – spherical shape –  $0.5-1.5\mu\text{m}$



- Cluster (staph)
- Chain (strep, enterococci)- reproduction, in one plane, and late separation.
- Diplococci – (*S. pneumoniae*, *Neisseria*), may be encapsulated!
- Tetrad



- Bacillus/rods

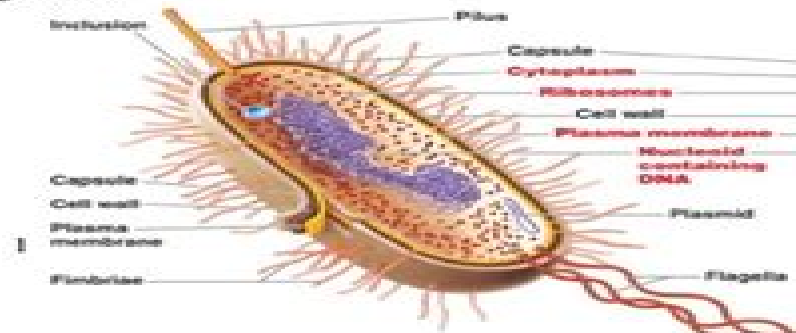
- Chain (streptobacilli)- *Bacillus anthracis* and *Cereus*.
- Row (palisades)
- Diplobacilli
- Coccobacillus – somewhere between coccus and bacillus (*Bordetella*, *Brucella*, *Francisella*, *Haemophilus*)- the respiratory bacteria + zoonotics.

- Spirochete – double membrane + helical-coiled cell (*Leptospira*, *Borrelia burgdorferi* et *recurrentis*, *treponema*)

### Structures of prokaryotic cells

\*not all bacteria have all the organelles described below (common organelles to all bacteria are: cell membrane, cytoplasm, ribosomes, nucleoid (bacterial chromosome)).

\*prokaryotic cell lack membrane-enclosed organelles.



# Environmental Microbiology Lecture Notes

**David LaVerne Ching**



## **Environmental Microbiology Lecture Notes:**

*Organism and Environment* Russell Winslow, 2017-08-29 *Organism and Environment* performs an examination into the way the contemporary life sciences are heralding a revolution of the most basic philosophical concepts of the Western world Analyzing recent research in microbiology and evolution theory the present book argues that these discourses are adding their voices to a growing chorus which is announcing a disruption if not an end to the understanding of the order of the world articulated in humanism What does it mean to be a living substance Are there such things as living individuals How are living beings free The discourses of microbiology the medical sciences and evolution theory are revealing a living organism that escapes the limited frame that Enlightenment humanism has traditionally used to answer these and other ontological questions Appealing to the theoretical lenses provided by Michel Foucault Hans Georg Gadamer and Gilles Deleuze *Organism and Environment* offers an interpretation of the way the contemporary life sciences are giving articulation to a posthuman ontological order

*Molecular Approaches to the Study of the Ocean* K.E. Cooksey, 2012-12-06 Marine biological science is now studied at the molecular level and although research scientists depend on information gained using molecular techniques there is no book explaining the philosophy of this approach *Molecular Approaches to the Study of the Ocean* introduces the reasons why molecular technology is such a powerful tool in the study of the oceans describing the types of techniques that can be used why they are useful and gives examples of their application Molecular biological techniques allow phylogenetic relationships to be explored in a manner that no macroscopic method can although the book deals with organisms near the base of the marine food web the ideas can be used in studies of macroorganisms as well as those in freshwater environments

*Hazard Evaluation and Environmental Assessment Manual*, 1986

**Environmental Footprint of Bioplastic Additives** Babafemi Raphael Babaniyi, Sesan Abiodun Aransiola, Gabriel Gbenga Babaniyi, Naga Raju Maddela, 2025-10-21 Plastics derived from renewable sources such as biomass or animal based materials offer an eco friendly alternative to traditional petroleum based plastics These bioplastics being biobased and biodegradable hold great promise in reducing reliance on fossil fuels and mitigating plastic pollution However additives play a crucial role in enhancing the properties of bioplastics improving flexibility durability and overall performance While some additives facilitate biodegradation others such as phthalates bisphenol A BPA and brominated compounds can release harmful substances upon breakdown posing risks to soil and water quality This book offers a comprehensive understanding of bioplastic compositions degradation processes and the environmental impact of various additives Through detailed life cycle analyses it assesses how bioplastic additives compare to conventional plastic additives in terms of sustainability and ecological impact The book also addresses the challenges of managing bioplastic waste including recycling limitations and the lack of standardized disposal methods

**Key Features** In depth analysis of bioplastic compositions degradation processes and additive functions Comparative life cycle assessment of bioplastic and conventional plastic additives Examination of the

environmental impact of bioplastic additives on soil wildlife and water quality Discussion on innovative waste management and recycling strategies for bioplastics Exploration of policy frameworks public awareness initiatives and case studies promoting sustainable bioplastic usage Designed to address the knowledge gap in bioplastic additive research this book is an essential resource for researchers policymakers industry professionals and environmental enthusiasts It bridges the gap between scientific understanding and practical implementation empowering stakeholders to make informed decisions and contribute to sustainable bioplastic waste management

*Working the Web* Julie B. Bliss, Sandra DeYoung, 2002 For any course in undergraduate or graduate nursing This is a small Internet guide specifically for nurses It consists of five chapters all providing a brief overview on how to use the Internet It concludes with a very comprehensive appendix of annotated nursing URLs divided by more than 20 topics This book could be value packed as a companion to any PHH nursing title LPN RN MSN or it can be sold as a stand alone guide

Applied and Environmental Microbiology, 1999

**Catalogs of the Scripps Institution of Oceanography Library** Scripps Institution of Oceanography. Library, 1980

**Probiotics** Adriano Brandelli, 2021-12-02 Probiotics Advanced Food and Health Applications presents the functional properties and advanced technological aspects of probiotics for food formulation nutrition and health implications Specifically the book addresses the fundamentals of probiotics from their discovery to actual developments the microbiological aspects of the main genus showing probiotic properties the natural occurrence of probiotic strains in foods the development of nutraceuticals based on probiotics and the relationship of probiotics to health The book also includes a discussion on regulatory aspects This book is an excellent resource for food scientists nutritionists dieticians pharmaceutical scientists and others working with probiotics or studying related fields Introduces basic concepts on probiotics and describes the properties of main microorganisms with applications in probiotics Provides a description on the natural presence of probiotics in different food matrixes and how probiotics can be developed for incorporation in food formulations Offers advice on how probiotics can be used as nutritional input along with their value on the preservation of healthy intestinal status and their potential benefits in specific illnesses Contains definitions applications literature reviews and recent developments Includes a general introduction to the subject taxonomy biology primary sources of probiotics and development of probiotics as food ingredients human nutrition and health properties and the use of high throughput technologies in probiotics characterization

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*"Spongy, slimy, cosy & more"* Frank Wiese, Mike Reich, Gernot Arp, 2014 This volume contains papers presented in part at a symposium held in May 2012 at G ttingen University to honour Professor Joachim Reitner for his numerous contributions to the fields of geobiology geology and palaeontology Our present volume reflects the breadth of Reitner s interests and accomplishment with tributes and research or review papers by his students former students

collaborators and friends The symposium was held in conjunction with Joachim Reitner s 60th birthday *New Scientist*,1994 **Catalog of Copyright Entries, Fourth Series** Library of Congress. Copyright Office,1978-07 Engineering in Our Environment: no. 1. Environmental. 2. Groundwater (1 v) Canadian Society for Civil Engineering. Conference,1990 *Combinatorial and Statistical Approaches for Some Challenges in Oligonucleotide Fingerprinting of Ribosomal RNA Genes* Zheng Liu,2006 **Catalog of Copyright Entries, Third Series** Library of Congress. Copyright Office,1978 Includes index ASM News ,1994 **Agrindex** ,1985 **The American Journal of Science** Mrs. Gambold,2004 **Innovative Engineering Technologies for Hazardous Waste Remediation** O'Brien & Gere,1995 structured so that the logical progression of understanding selection and implementation of innovative technologies follows smoothly from one phase to another Dr Stephen James Innovative Technology Coordinator U S EPA Office of Research and Development OBrien Geres landmark 1988 Hazardous Waste Site Remediation also published by Van Nostrand Reinhold gave us an excellent introduction to a critical issue Their current book is a much needed in depth examination of recent innovations for hazardous waste site remediation that will give you a comprehensive understanding of todays technology Innovative Engineering Technologies For Hazardous Waste Remediation includes innovative applications of state of the art chemical physical and thermal technologies as well as established processes Youll review the principles behind their development and see examples of successful applications The authors not only explain the new processes but also critically analyze when and where they apply and dont apply In addition they suggest ways to overcome some of the barriers to implementing innovative technologies OBrien Geres unique approach unites scientific and management concerns The authors stress real world long term solutions based on such legislation as the Superfund Amendments and Reauthorization Act SARA and RCRA Whether youre a member of an environmental consulting firm or a manager engineer or student youll find this book to be the authoritative source on the latest technologies for hazardous waste remediation The OBrien Gere Companies 19451995 a foundation for the future A Dynamic Model of the Completely Mixed Activated Sludge and Final Clarification Processes David LaVerne Ching,1980

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