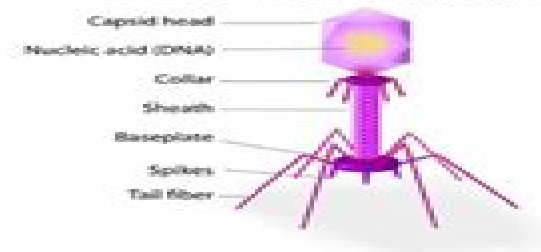


# **LIFE SCIENCE NOTES TERM 1 +2**

## **MICRO ORGANISMS**

### **Basic structure of viruses:**

#### **Structure of bacteriophage**



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A bacteria has an inner core of either DNA or RNA. Some viruses with RNA, such as HIV, are called retroviruses. The nucleic acid is surrounded by an outer protein coat or capsule, which protects the viral genetic material. Viruses have no cytoplasm and have no membrane bound organelles.

Viruses have the following characteristics:

- Viruses are acellular as they are not complete cells
- Viruses are extremely small and can only be seen using an electron microscope.
- Viruses have many different shapes.
- Viruses do not perform any of the metabolic reactions of living organisms.
- Viruses cannot reproduce unless they invade a host cell.
- Viruses are parasitic on plants, animals, protists and bacteria.
- Viruses have the ability to assemble themselves
- Most viruses are pathogens as they cause disease.

## **BACTERIA:**

### **Basic structure of bacteria:**

Bacteria are unicellular organisms that are classified as prokaryotes. This means they do not contain membrane bound organelles such as nucleus, chloroplast etc. Their DNA floats freely in the cytoplasm. The cell wall is lined with a cell membrane and often covered by a slime capsule to prevent it from drying out. In many pathogenic bacteria the slime capsule also serves as a barrier against phagocytes. Some bacteria have flagella that are used for locomotion. Bacteria also have hollow, hair like structures called pili that are used to attach to other cells.

Bacteria have the following characteristics:

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**J Ma**



## Life Science Term 2 Practical 2014:

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**Handbook of Laboratory Animal Science** Jann Hau, Steven J. Schapiro, 2021-05-17 Building upon the success of previous editions of the bestselling Handbook of Laboratory Animal Science first published in 1994 this latest revision combines all three volumes in one definitive guide It covers the essential principles and practices of Laboratory Animal Science as well as selected animal models in scientific disciplines where much progress has been made in recent years Each individual chapter focuses on an important subdiscipline of laboratory animal science and the chapters can be read and used as stand alone texts with only limited necessity to consult other chapters for information With new contributors at the forefront of their fields the book reflects the scientific and technological advances of the past decade It also responds to advances in our understanding of animal behavior emphasizing the importance of implementing the three Rs replacing live animals with alternative methods reducing the number of animals used and refining techniques to minimize animal discomfort This fourth edition will be useful all over the world as a textbook for laboratory animal science courses for postgraduate and undergraduate students and as a handbook for scientists who work with animals in their research for university veterinarians and for other specialists in laboratory animal science

**Total Scar Management** Rei Ogawa, 2019-11-29 The purpose of this book is to discuss available treatments for scars and analyze their mechanisms from an international perspective Scars are now receiving considerably more attention internationally because the topic of patients quality of life QOL of patients has gained in importance Total Scar Management highlights many new and practical topics related to scars such as various treatments for post burn scars traumatic scars keloids and hypertrophic scars aesthetic management of scars reconstructive surgery of scar contractures basic researches etc Written by an international team of prominent experts in their respective fields the book presents the latest and most helpful advances regarding scars offering a unique resource for all plastic surgeons dermatologists aesthetic surgeons wound surgeons wound healing specialists and general surgeons who are interested in the aesthetic outcomes of their work

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