

# DEPTH OF BIOLOGY

## Introduction , History of Microbiology

➡ May be microorganism are  
➡ Size -  $< 1(\text{micro})$

Bacteria

Protozoan

Virus

Fungus

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Shape



Rod shape

Vibrio

Elongated

Some beneficial



Milk



Curd (Lactobacillus)

Some are not  
beneficial



Like salmonella  
Typhi

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**Typhoid**

**Microorganism**



**Unicellular**



**Multicellular**

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## History

1. Aristotle



Living



He said there are many  
living thing exist



Non - Living



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Which are not seen by  
naked eyes

2. Roger Becon



13<sup>th</sup> century



Disease

He is unable to tell us that  
they are virus , bacteria  
because he don't know

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➡ He simply says something exist which affect our health

3. Fracastorius

➡ 1546

➡ Communicable Disease

Simply says when you are come in contact with affected individual you are also affected . It mean it is communicable disease

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4. Antonevon Lewenhock

→ 1675

→ 1<sup>st</sup> observation of  
bacteria and protozoan

→ Founder of Microbiology

1<sup>st</sup> Microbes → Animalcules

Bacteria

Protozoan

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5. Splanzini



Culture Media



He simply tell about  
culture media



(Like Agar – Agar) to grow  
microorganism

6. Jhon Tyndall



Gives Tyndall effect



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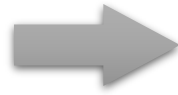
➔ If any bacteria / virus is present on surface either food or vegetables , milk



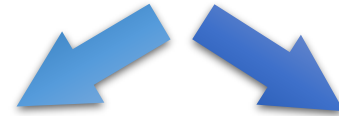
Tyndall says when we heat , the surface bacteria / virus (Animalcules) get killed

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7. Louis Pasteur



Identify bacteria  
which one is



Aerobic Anaerobic



The term  
microbiology was 1<sup>st</sup>  
given by Louis  
Pasteur

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So called father of  
microbiology

Pasteurisation



When we heat the milk  
on  $62.8^{\circ}\text{C}$  in  
approximately 30  
minutes all bacteria's  
and viruses are killed  
called Pasteurisation

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8. Lord Joseph Lister



**Father of Antiseptic  
Surgery**



**Because I<sup>stly</sup> says  
before operation we  
can use Antiseptic**

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9. Alexander Flemming



I<sup>st</sup> Antibiotic disorder → Penicillin



Obtain from *Penicillium*  
Notatum (Fungus)



Find in tobacco leaf