Experiment 1 Microscope



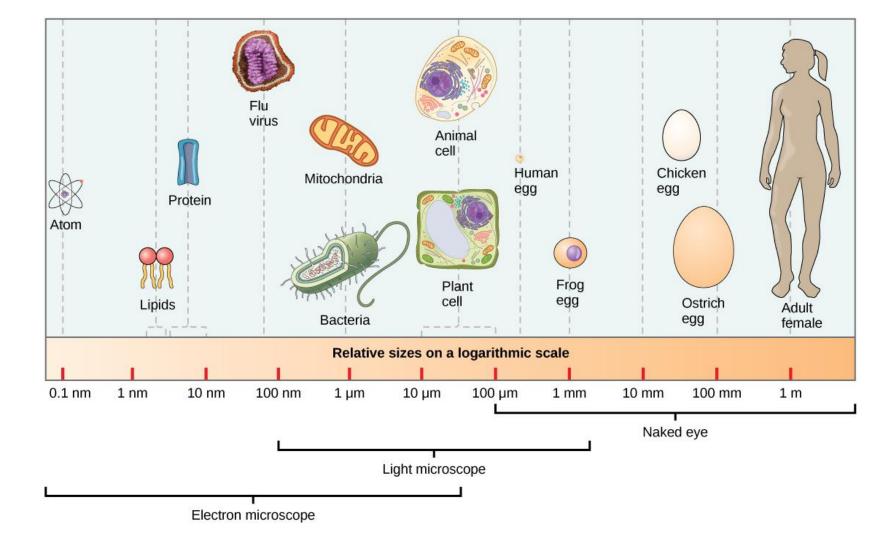
The invention of the first compound microscope was made by Dutchmen Hans and Zacharias Jansen and Hans Littersey in 1590

In the 17th century it was used systematically by the natural philosopher Robert Hooke

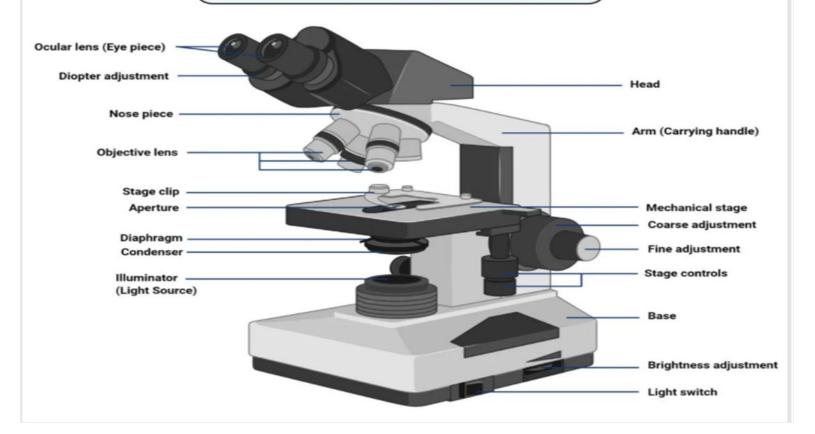
Robert Hooke







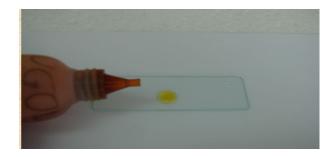
Microscope Parts



Experiment 2 Samples preparation for microscope observation Onion cells

PROCESS OF EXPERIMENT

1. Put a drop of lugol on a glass slide

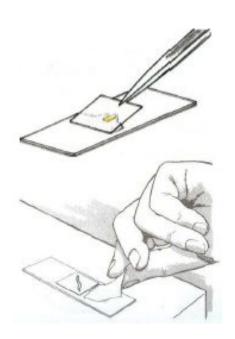


2. Remove a thin onion film



PROCESS OF EXPERIMENT

- 3. Place the membrane over the lugol drop
- 4. Wait for 2 minutes and then rinse the sample
- 5. Cover with a lid and remove the excess water

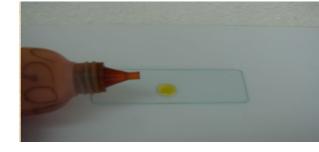




Experiment 3 Samples preparation for microscope observation Epithelial cells

PROCESS OF EXPERIMENT

1. A drop of lugol on the slide

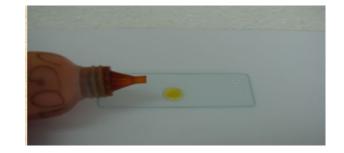


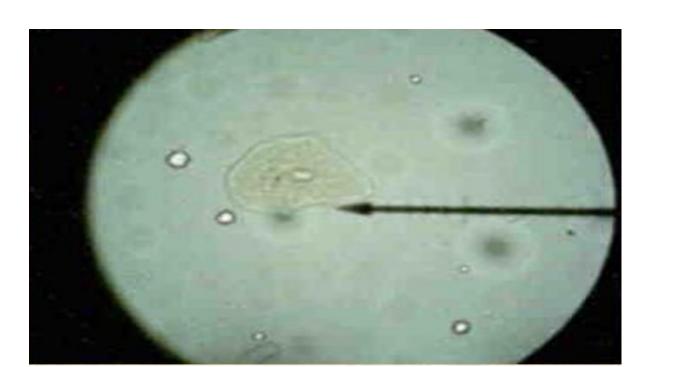
2. Scrape epithelial cells from the tongue or the inside of the cheek with a toothpick. Stir the toothpaste in the lugol drop



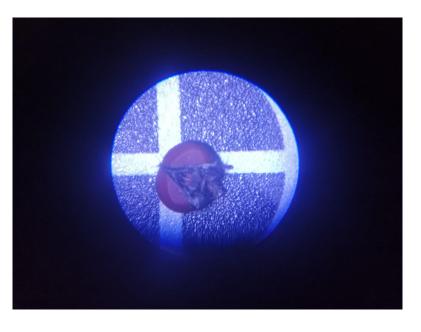
3. Wait for 2 minutes and then rinse the sample

4. Cover with a lid and remove the excess water

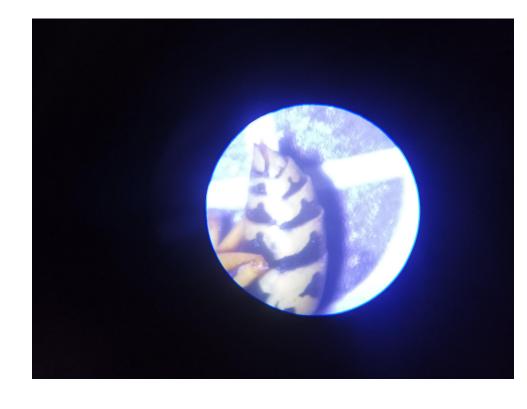




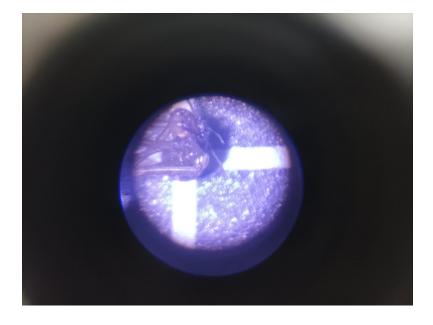
Experiment 4 Stereoscope observation of leaves and insects



Fly head



Sphinx heart



Spider head



Spider leg

Sphinx feather



Experiment 5 Blood types

	Group A	Group B	Group AB	Group O
Red blood cell type	< /a>	<u>m</u>	B	
Antibodies present	Anti-B	Anti-A	None	Anti-A and Anti-B
Antigens present	P A antigen	† B antigen	P† A and B antigens	No antigens



We did an experiment and tried to find out from each person's blood samples who the father of the child Matthew is. We were able to tell by whether the tethers were bonding who the father of the child was.

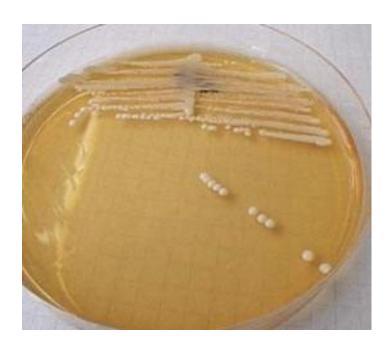
Experiment 6 Microorganism cultivation

Microorganisms need carbon, nitrogen, various metal ions and water to grow.







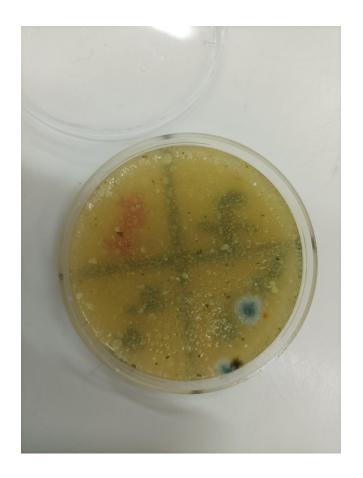


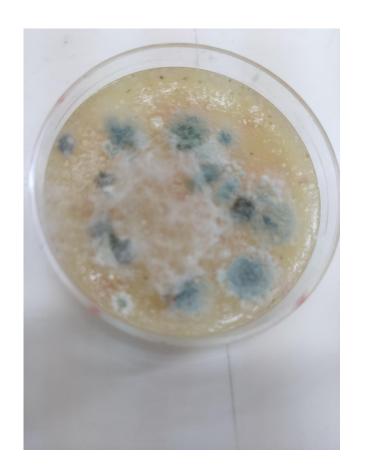


Green Mold Trichoderma harzianum

Black Mold *Aspergillus nidulaus*

Our cell-culture dishes

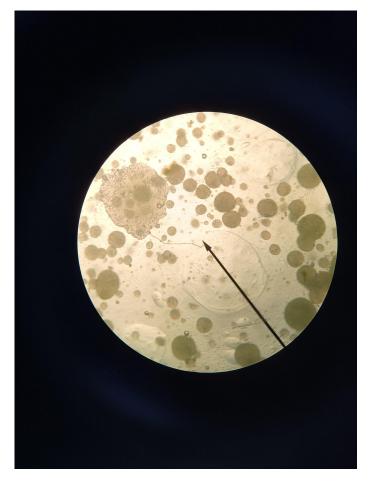




Experiment 7 Microscopic observation of microorganisms



bacterial colonies





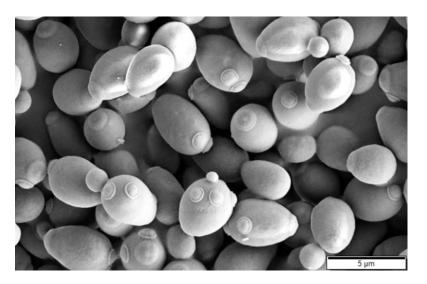
bacterial colonies from up close



filamentous fungi

Experiment 8 Microscopic observation of saccharomyces





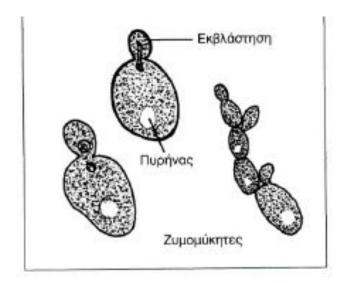


Αλκοολική ζύμωση

$$C_6H_{12}O_6$$
 $\dot{\epsilon}$ νζυμο $2 CH_3CH_2OH + 2 CO_2$ $\alpha \iota \theta \alpha \nu \delta \lambda \eta$







Yeast



Experiment 9 Microscopic observation of yogurt microorganisms

Yogurt fungi