

OCR A-level Biology

Revision sheets

PAGE 1
ROOT TIP EXAMINATION

AIMS/INTRODUCTION
To examine the structure of the root tip and to identify the different regions of the root tip.

THEORY
The root tip is the region of the root where new cells are produced. It is the site of mitosis and is therefore the region of the root where the root is growing. The root tip is divided into four regions: the root cap, the zone of elongation, the zone of maturation and the zone of root hairs.

EXPERIMENTAL METHODS
1. A root tip is cut from a growing plant and placed in a solution of HCl to remove the root cap.
2. The root tip is stained with toluidine blue to make the cells visible.
3. The root tip is mounted on a slide and covered with a cover slip.
4. The slide is placed on a microscope and the cells are examined.
5. The cells are drawn and labelled.

RESULTS
The root tip is divided into four regions: the root cap, the zone of elongation, the zone of maturation and the zone of root hairs.

CONCLUSIONS
The root tip is the region of the root where new cells are produced. It is the site of mitosis and is therefore the region of the root where the root is growing. The root tip is divided into four regions: the root cap, the zone of elongation, the zone of maturation and the zone of root hairs.

PAGE 2
PHOTOTROPISM

AIMS/INTRODUCTION
To investigate the effect of light on the growth of a plant and to identify the different regions of the root tip.

THEORY
Phototropism is the growth of a plant towards a light source. It is caused by the hormone auxin, which is produced in the shoot tip and moves down the shoot. Auxin causes the cells on the side of the shoot that is away from the light to elongate, causing the shoot to bend towards the light.

EXPERIMENTAL METHODS
1. A shoot is cut from a growing plant and placed in a solution of auxin.
2. The shoot is placed in a container of water and the water level is marked.
3. The shoot is placed in a container of water and the water level is marked.
4. The shoot is placed in a container of water and the water level is marked.

RESULTS
The shoot is divided into four regions: the shoot cap, the zone of elongation, the zone of maturation and the zone of root hairs.

CONCLUSIONS
The shoot is the region of the shoot where new cells are produced. It is the site of mitosis and is therefore the region of the shoot where the shoot is growing. The shoot is divided into four regions: the shoot cap, the zone of elongation, the zone of maturation and the zone of root hairs.

PAGE 3
EXPERIMENTAL PLANTING TO INVESTIGATE MICROBIAL GROWTH

AIMS/INTRODUCTION
To investigate the effect of light on the growth of a plant and to identify the different regions of the root tip.

THEORY
Microbial growth is the growth of microorganisms. It can be measured by the number of colonies that form on a petri dish. The number of colonies is proportional to the number of microorganisms that were present in the sample.

EXPERIMENTAL METHODS
1. A sample is collected and placed in a petri dish.
2. The petri dish is incubated for a period of time.
3. The number of colonies is counted.

RESULTS
The number of colonies is proportional to the number of microorganisms that were present in the sample.

CONCLUSIONS
The number of colonies is proportional to the number of microorganisms that were present in the sample.

Required practicals / PAGs

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Liyong Dong



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