

Grade- 12-BIOLOGY PRACTICAL (2024-25)

A. Experiments:

Ex: No. 1- Study of pollen germination

AIM: To study the pollen germination on slide

REQUIREMENTS

Fresh seasonal flowers, slide, coverslip, microscope, sucrose, boric acid, magnesium sulphate, potassium nitrate, beakers etc.

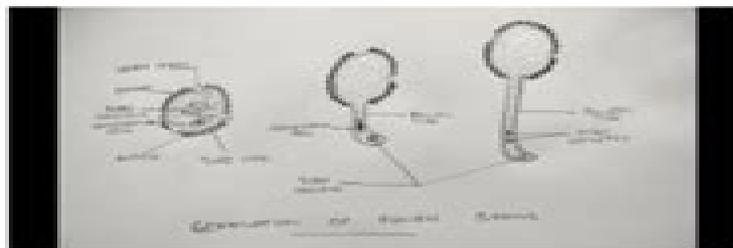
PROCEDURE

1. Prepare a nutrient solution by dissolving 10 g sucrose, 10 g boric acid, 30 mg magnesium sulphate and 20 mg potassium nitrate in 100 ml of water.
2. Take a few drops of this solution on a clean slide and dust a few pollen grains from the stamen of a mature flower on it.
3. Observe the slide in the microscope after 5 minutes and then observe it regularly for about half an hour.

OBSERVATION

In nutrient medium, the pollen grain germinate. The tube cell enlarges and comes out of the pollen grain through one of the germ pores to form a pollen tube. The tube nucleus descends to the tip of the pollen tube. The generative cell also passes into it. It soon divides into two male gametes. Each male gamete is lenticular to spherical in outline.

Diagram:



Precaution:

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