

# **SQUASH METHOD FOR PREPARING CYTOLOGICAL SLIDE**



# EXPERIMENTAL PLAN

- 1- **root germination**: root tip size 1-1.5 cm
- 2- **fixation** : killing all cell organelles except nucleus

## CORNOY SOLUTION

**3 : 1**

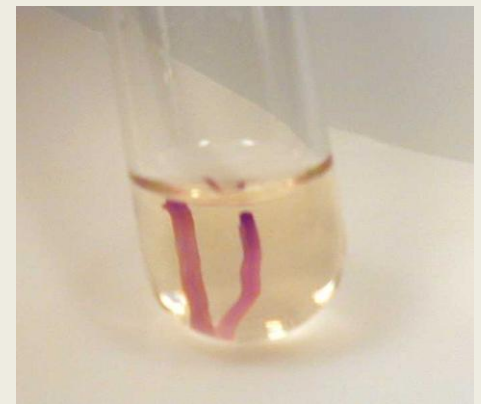
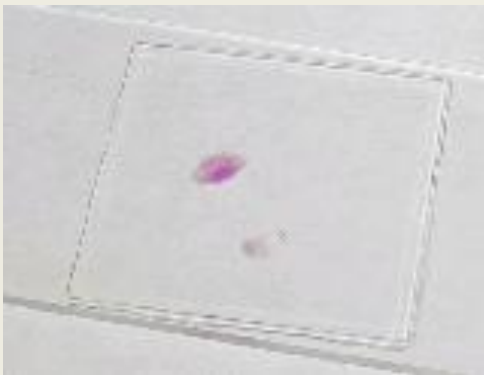
**absolute alcohol: glacial acetic acid**

add the root to cornoy solution for 24 hrs then adding 70% ethyl alcohol and storing in the refrigerator

3- **hydrolysis** : dissolution cells from each other by adding 1N HCL at 60% for 6-8 min

4- **staining**: leuco basic fuchsin is used to stain the roots.

Store over night in brown bottle then add animal charcoal(1g) and filter ;take the filter and store



## 5- mounting :

### \* Preparing Temporary slide:

cut root tip

Add drop of 45% acetic acid for clearing

Put cover

Spread and examine

### \* Preparing permanent slide:

by egg albumin on the cover

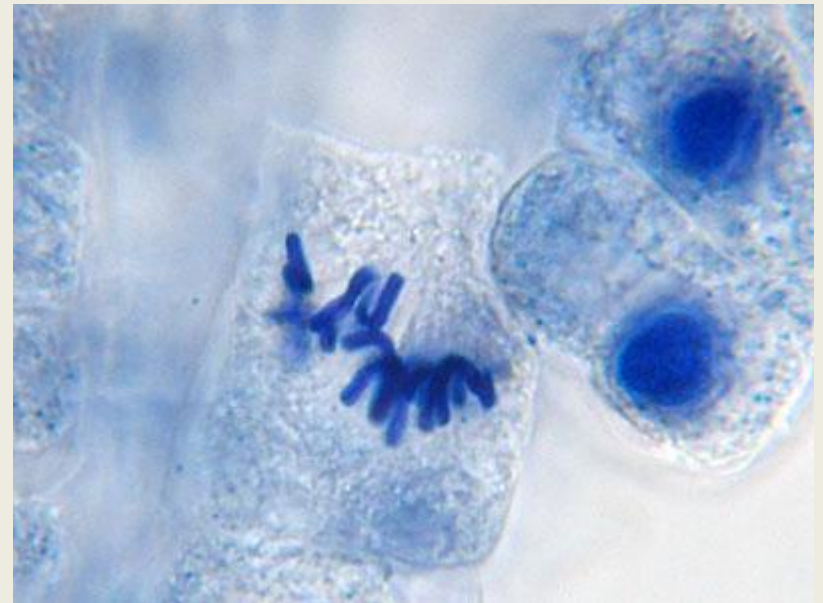
After mounting put slide in 40% ethyl alcohol

Take the cover and add 95% ethyl alcohol for 3 minutes  
and 100% alcohol for 3 min

Add euporal on the cover

Dry in the oven at 40 digress





[http://biology.clc.uc.edu/fankhauser/labs/genetics/root\\_tip\\_chromosomes.html](http://biology.clc.uc.edu/fankhauser/labs/genetics/root_tip_chromosomes.html)