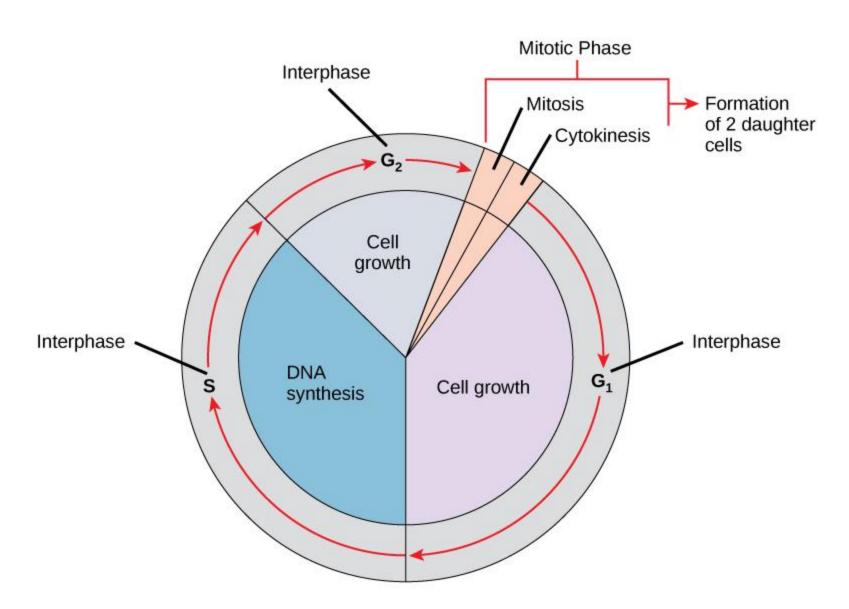
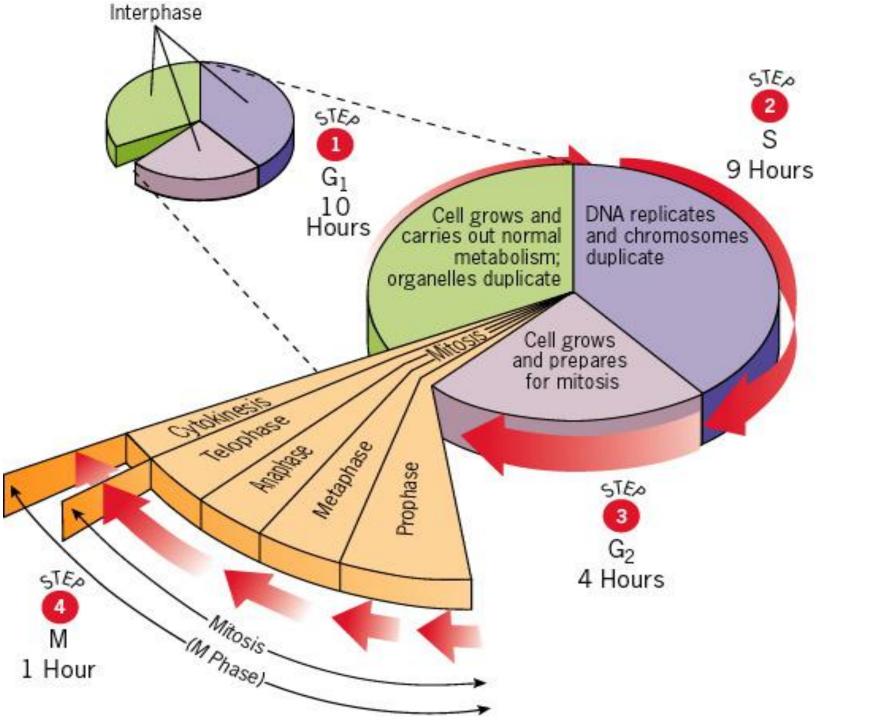
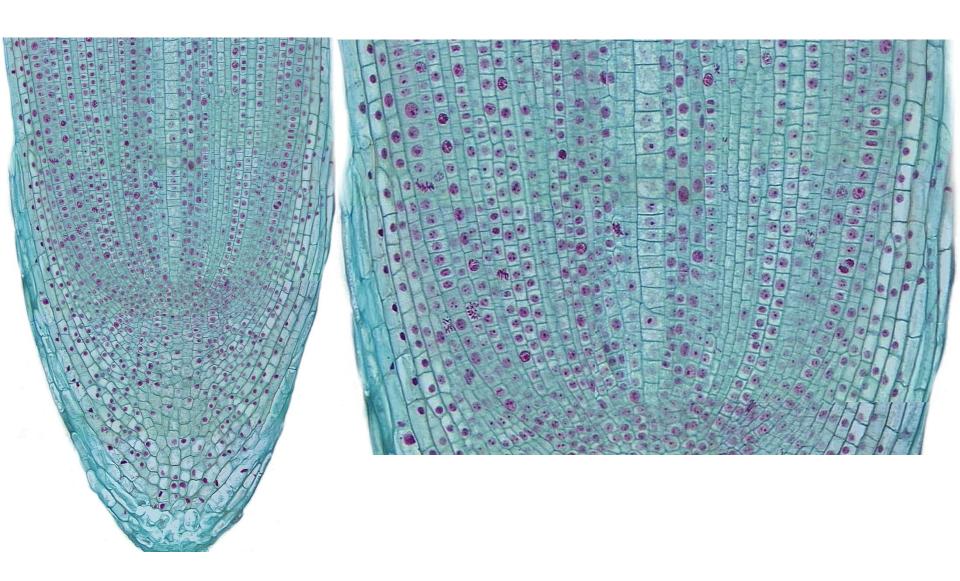
Mitosis (PMAT/IPMAT)

The Cell cycle

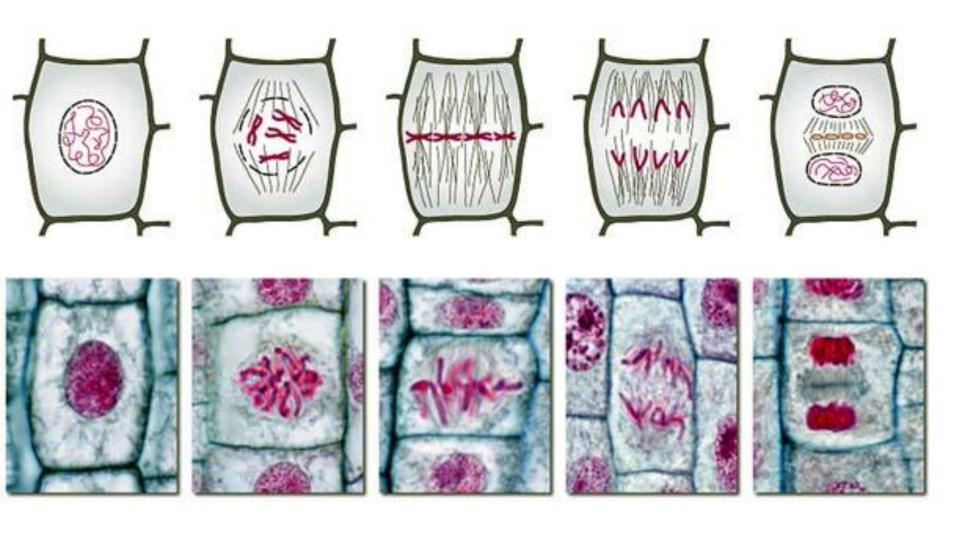




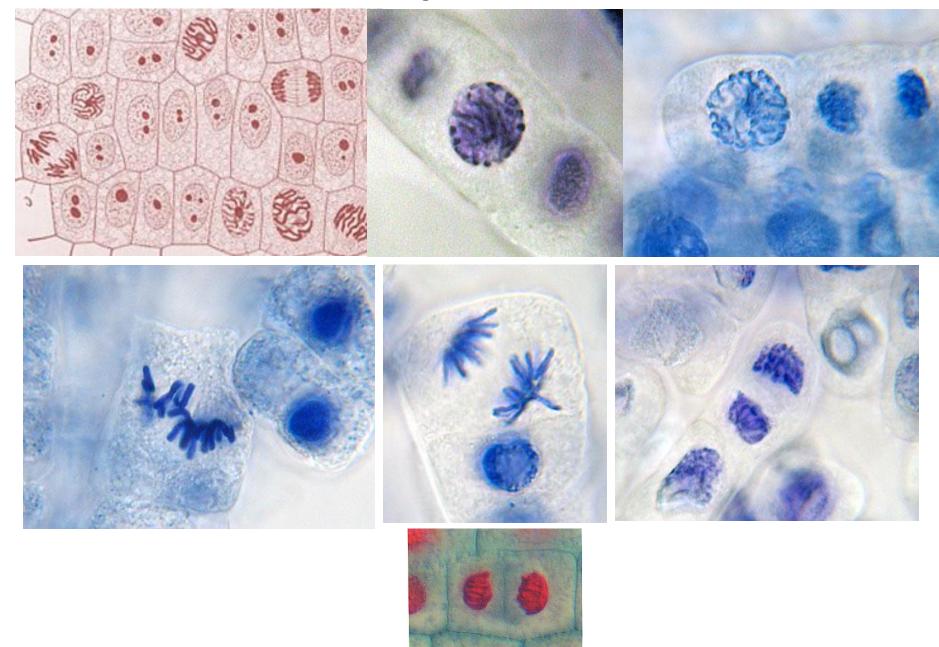
Onion root tip after Aceto-Orcein stain

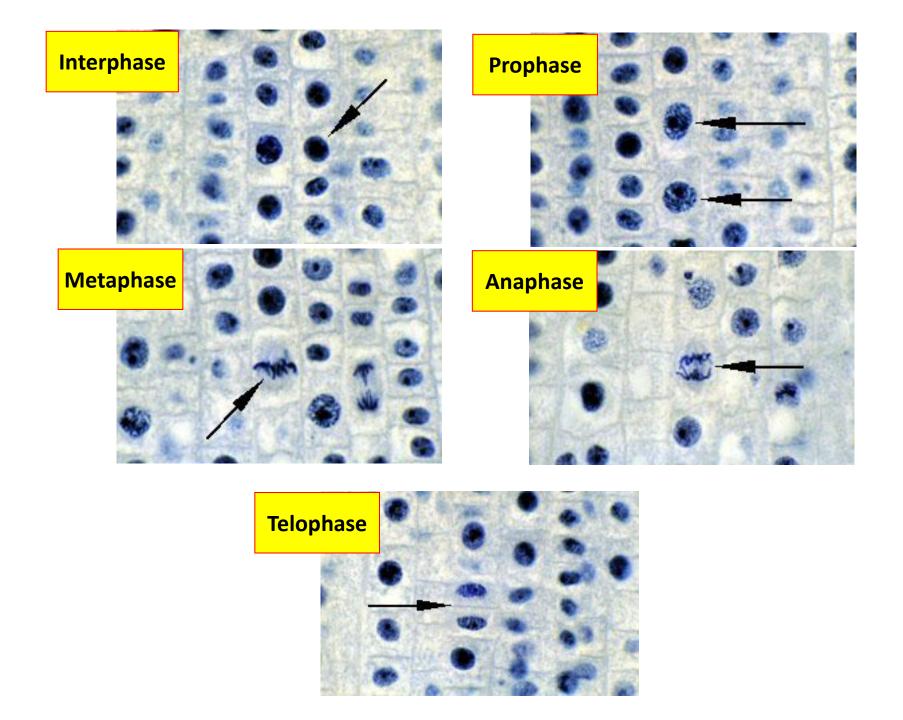


Stages of Mitosis in Onion Root tip cells

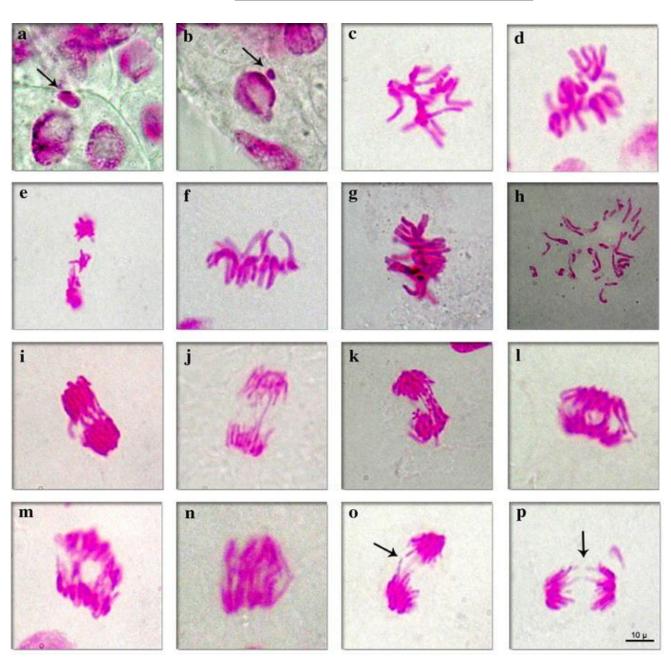


Different stages of Mitosis





Chromosomal aberrations



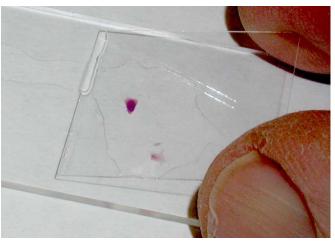
a, b micronuclei; c, d disorderly metaphase; e-g sticky chromosomes; h fragments; i-k anaphase bridges; l-n alignment anaphase; o, p laggard chromosomes Determine Mitotic Index

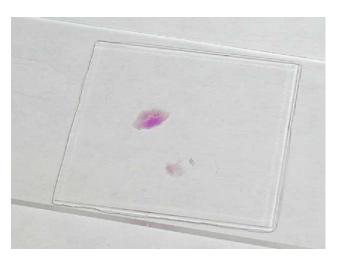
Protocol

- 1. Cut onion roots 2-3 cm
- 2. Put it in the fixative (45% Acetic acid: 1N HCL)
- 3. Wait for 5 minutes
- 4. Incubate the root tips at 60 degree for 6 minutes
- 5. Observe root tip color and discard the extra part
- 6. Add 1 drop of aceto-orcein and wait for 5 minutes
- 7. Wash gently with 3-4 drops of water
- 8. Put cover slip and squash the root tips
- 9. Observe under microscope
- 10. Determine mitotic index.











A good spread of cells

