


Reproduction in paramecium:- (protozoa)

Paramecium reproduce by both asexual and sexual method.

(1) Asexual reproduction.

(2) Sexual reproduction.

1. Asexual reproduction - Paramecium reproduces asexually during favourable period by transverse binary fission.

① on maturity oral organelle disappears and  and it stop feeding.

- ② meganucleus elongates and divides amitotically into two parts.
- ③ micronucleus divides mitotically into two equal size similar daughter nuclei.
- ④ In the mean time a transverse constriction in the pellicle and cytoplasm appear on the mid perpendicular line of the long axis. This constriction deepens gradually till it divides completely the parent paramoecium into two daughter paramoecium.
- ⑤ Each daughter paramoecium receives a single contractile vacuole is formed along with the formation of oral groove and oral organelle.

⑥ The completion of the binary fission takes about half an hour to two hours. Sometimes repeated binary fission occurs. It results in the formation of a clusture of daughter paramecia. From single parents paramoecium, paramecia of a clusture are collectively known as clone. All paramecia of a clone are genetically alike.

⑦ The main feature of binary fission is the production of large number of paramecia in very short duration during favourable condition.

