

References

1. Pelczar Jr, M.J. Chan, E.C.S. and Kreig, N.R. (1993). Microbiology, Mc. Graw Hill.Inc. New York.
2. Principles of Gene Manipulations; 6th Edn. S.B. Primrose, R.M. Twyman, and R.W. Old, Blackwell Science (2012).

BCP 507: CELL BIOLOGY: SOFT CORE

Practical: 8 hours/week

Total Credits: 03

Course objectives:

- Mounting of polytene chromosomes and also Barr bodies.
- Isolation of nucleus, mitochondria, chloroplast and their purification
- Study of mitosis and meiosis.

EXPERIMENTS

1. Mounting of polytene chromosomes
2. Mounting of Barr bodies
3. Study of mitosis by using onion root tips
4. Study of meiosis
5. Isolation of nucleus and determination of its purity
6. Isolation of mitochondria and determination of purity
7. Isolation of chloroplast by sucrose density gradient and determination of its purity
8. Visit to Industry/ Institution/Clinical Laboratory.

Course outcome:

- Polytene chromosomes and Barr bodies are mounted and identified.
- Cell organelles and cell divisions are observed

REFERENCES:

1. Principles and Techniques of Biochemistry and Molecular Biology; 7th Edn. Keith Wilson and John Walker (2012).
2. Molecular Cell Biology, Lodish, Berk et al., 1996.