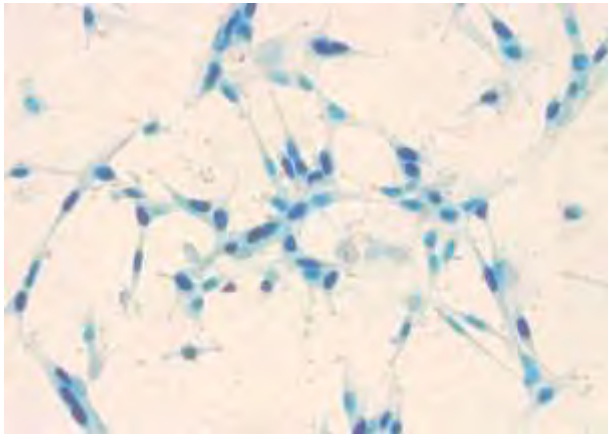


Overview:

- Acquire the necessary practical skills for the isolation of animals cells for in vitro studies, maintenance of animal cells in vitro and manipulation of animal cells in vitro.
- Prepare and use cells for the application of molecular techniques.



Lectures:

1. Introduction to cell culture
2. Design of the cell culture laboratory
3. Media preparation and formulations
4. Primary cell culture
5. Maintaining cells: Contamination and storage
6. Eukaryotic gene transfer
7. Immunohistochemistry

Labs:

- | | |
|---|---------|
| 1. Safety orientation and basic aseptic technique | 1 week |
| 2. Methods of media preparation and sterilization | 1 week |
| 3. Primary cell culture | 2 weeks |
| 4. Cell preservation and measures of cell viability | 1 week |
| 5. Eukaryotic gene transfer | 1 week |
| 6. Immunohistochemistry | 1 week |