



شرکت سلول بافت زیست (سبز)

Flow Cytometry and Immunocytochemistry Workshop

I. Flow cytometry

Theory session:

- ✓ Immunophenotyping methods
- ✓ How does a flow cytometry machine work?
- ✓ How to analyze flow cytometry data
- ✓ Common fluorochromes in cytofluorometric analysis
- ✓ Applications of flow cytometry (surface and intracellular marker analysis, cell cycle analysis, apoptosis, chromosome analysis, cell sorting ...)

Practical session:

- ✓ How to select appropriate antibodies
- ✓ Preparation of cells for surface marker analysis
- ✓ Data analysis
- ✓ (Application of samples to flow cytometry machine is not included in the curriculum)

II. Immunocytochemistry:

Theory session:

- ✓ Introduction to immunocytochemistry (ICC) and its applications
- ✓ Methods of cell fixation
- ✓ Cell permeabilization for intracellular staining
- ✓ Methods of blocking
- ✓ How to select antibodies
- ✓ Negative and positive controls in ICC

Practical Session:

- ✓ Cell fixation and analyzing a cell population for surface markers
- ✓ Staining nuclei
- ✓ Observing the sample with invert fluorescent microscope