



شرکت سلول بافت زیست (سبز)

The induced pluripotent cells production workshop

Theory sessions:

- ✓ Introduction and history of induced pluripotent Stem cells (IPS) generation and explanation of viral vector usage in IPS cells induction
- ✓ IPS generation by transposon vectors explanation
- ✓ the key role of feeder cells in IPS generation
- ✓ Introduction to IPS usage in medicine
- ✓ Evaluation and confirmation of IPS cells as a pluripotent cells

Practical Session:

- ✓ single gene viral vector transfection to target cells
- ✓ polycistronic transposon vector transfection by target cells
- ✓ MEF cell culture to feeder production
- ✓ Feeder cell inactivation
- ✓ Transduced and transfected cells culture on feeder cells
- ✓ IPS colonies alkaline phosphatase assay
- ✓ IPS colonies picking up and re-culturing
- ✓ Storing and freezing of produced cell lines