



**Workshop on Isolation and Culture of Mesenchymal Stem Cells (MSCs)
Derived from Bone Marrow, Adipose Tissue, and Dental Pulp Sources and their
Differentiation Toward Osteocyte, Chondrocyte and Adipocyte Cells**

Participants would be introduced to:

- Mesenchymal stem cell (MSC) introduction
- MSCs application from different sources
- MSCs isolation, culture, and passaging
- Different methods for freeze/thaw of various MSCs
- MSCs Counting
- Methods of MSC differentiation toward skeletal cell lineages
- MSCs culture in 2D and 3D conditions

This workshop is suitable for graduates and students of all academic levels in biology, paramedical, and medical fields. A previous knowledge on principles for animal cell cultivation, basic stem cell biology, and principles for tissue engineering is required.