

Course Title	<ol style="list-style-type: none"> 1. Neural stem cell isolation and culture from adult rat brain 2. Neural stem cell line generation from pluripotent stem cells 3. Cultivation and maintenance of neural stem cell line and differentiation toward specific neural subtype
About this course	<ul style="list-style-type: none"> – Participants would be introduced to basics and applications of NSCs from different sources, NSCs lines cultivation, proliferation and cryopreservation of NSCs.
Audience: Level: (BSc, MSc and PhD)	BSc, MSc and PhD
Department	Department of Stem Cells and developmental biology
Instructor	Dr. Shiva Nemati (PhD) Dr. Ebrahim Shahbazi (PhD)
Modules	<ul style="list-style-type: none"> – Introduction and application of NSCs from different sources. – Introduction of signaling pathways which are responsible for neuroectoderm specification and various neuronal subtype commitments. – Culture media introduction for different NSCs lines cultivation. – Introduction of different methods for Proliferation and freeze & Thaw for various NSCs. – Adult neural stem cell isolation from adult brain and cultivation methods. – Introduction of NSCs derived pluripotent stem cells specification and cell line generation methods.
Prerequisite	<ul style="list-style-type: none"> • Principles for the cultivation of animal cells • Principles for the Cultivation of Human Embryonic Stem Cell
Registration Costs	90 \$ / Course / 7 Student
Duration	All title 3 Days. If accepted just 1 or 2 titles, we need 2 days.