

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