Course Title	Production Technology of Transgenic Mouse
About this course	To provide all knowledge and experience necessary to perform injection of mouse blastocysts with embryonic stem cells for the production of transgenic mouse.
	1. Preparation of glass instruments used in transgenic mouse production.
	2.Harvesting of mouse blastocyst3. Preparation of pseudo-pregnant recipient mice4. Gene Isolation and cloning
	 5. Preparation of transgenic mESCs by insert DNA construct into ESCs with electroporation 6. Preparation of transgenic mESCs for microinjection 7. Microinjection of blastocyst
	 8. Embryo transfer 9.Genotyping and analysis of transgene expression in founder mice
Audience:	BSc. MSc., PhD
Level (BSc. MSc., PhD, etc.)	
Department	Stem Cell Biology & Technology Department
Instructor	Dr. Yaser Tahamtani, Dr. Totonchi, Behrouz Asgari
Modules/Resources	6
Course Requirements	Micromanipulator system, Centrifuge, Microscope, Laminar flow, Incubator, Micro warm plate
Registration Costs	500 \$
Duration:	5 day