

9th Yazd International Congress and Student Award on Reproductive Medicine with 4th Congress of Reproductive Genetics

Key Lectures

K-5

Tissue engineering and regenerative medicine in Iran: Current progress of Iranian Universities

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Tissue engineering and regenerative medicine (TERM) is an emerging field focused on the development of alternative therapies for tissue/organ repair. This highly multidisciplinary field, in which bioengineering and medicine merge, is based on integrative approaches using scaffolds, cell

populations from different sources, growth factors, nanomedicine, gene therapy, and other techniques to overcome the limitations that currently exist in the clinics. The field of TERM in Iran, dating back to early 1990s and the advent of stem cell researches. During two decades ago, Iran has exhibited a remarkable increase in scientific publication in different aspects including TERM and today, Iran is one of the privileged countries in stem cell therapy in the Middle East. The main goals in TERM are the application and fabrication of scaffolds for tissue engineering of nerve, heart, liver, bone, and cartilage tissues. Today some of the product from engineered tissues in laboratory move to the clinic in Iran but there are some problems in the clinical application of constructs that need to be solved them.