

New horizons for the cartilage treatment: Laboratory, Education and Clinical applications.

Ankara Yıldırım Beyazıt University

Department of Orthopaedics and Traumatology and
Department of Musculoskeletal Regenerative Medicine

Prof. Dr. Murat Bozkurt

Regenerative medicine is a growing field with research and technological development in the world. Next generation cell sources, self-assembly and injectable scaffolds, targeted therapy options, and novel materials help physicians to treat the patients. However, the development process of these technologies depends on multidisciplinary teamwork. Physicians –in our case orthopedic surgeons-, engineers from different fields, biologists, physicists, and chemists have to work in harmony to create these novel approaches. Moreover, there are the necessities of a common language and a shared approach to reach a common goal. On the other hand, different groups from all over the world have their own practices to achieve the best outcome. For this reason, a consortium from 5 different EU countries including the experts of the area from different backgrounds and professions was found. This consortium has developed a curriculum for musculoskeletal regenerative medicine for and with the future students and researchers in the field. As the leading partner of the consortium, our team transferred their clinical and laboratory experience from our previous projects including but not limited to the decellularized amniotic membrane scaffolds, multisource stem cell applications, and biotargeted microspheres.