An ageing population is resulting in an explosion of concerns involving musculoskeletal issues that provide great impetus to finding more sophisticated and cost effective ways of treating patients. Regenerative medicine and biological therapies are already finding their way into the clinic and common usage. These range from simple scaffold approaches using human tissue to synthetics, hybrids and to more complex cellular therapies and tissue regenerating opportunities of 3D printing. It is an exciting era of translational work, with greater understanding of the complexity of the problems, enabling innovative interventions that address the underlying pathology and which are founded on a strong evidence base.