

Cell therapy

In the recent decades, there are dramatical progresses in the scope and the power of cell therapy. Its efforts were no longer limited to replace bone marrow by myeloablative therapy. The key components of the regenerative medicine faced to replace or repair diseases or tissues by seeding of some appropriated cells to the reconstitution of tissue or organs by the recent advances in cell therapy and tissue engineering. Therefore, the new applications included organ and tissue repair, immunomodulatory functions, cell functions, metabolic support, gene replacement and others. They required some important complex procedures or other essentials as: biomaterials, cell types for tissue engineering, stem cells of some kinds and else.