

Stem Cell, Tissue Engineering and Regenerative Medicine

March 14-15, 2024 | London, UK

Volume: 14

Knee Orthobiologics

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Osteoarthritis (OA) is the most prevalent joint disease and a common cause of joint pain, functional loss, and disability. Besides focusing only on pain relief, conventional treatments have shown some serious adverse effects, especially with the use of corticosteroids. In the severe cases of OA, the prosthetic joint replacement is necessary. Thus, the OA treatment represents an important argument. In this way, orthobiologics are emerging as an alternative option for the treatment of knee osteoarthritis as they promote tissue regeneration. It comprises intra-articular injections of Platelet Rich Plasma, bone marrow aspirate concentrate, biofat and expanded stem cells. There has been an increasing interest in this approach over the years. Clinical trials using orthobiologics showed that when this therapy is used alone or in combination it is safe and effective in pain relief and function improvement. In addition, several in vitro studies have shown its regenerative properties. The goal of this presentation is to review the current options in this approach and its fundamental aspects, focusing on mechanisms of action and reports of clinical trials.

Biography

Massimo Piracci completed his MBBS from Roma Tor Vergata, Italy in 1992 and subsequently received his MD in Orthopedic and Traumatology from the same University in 1999. He was trained in Orthopedic Surgery in Roma Saint Eugenio Hospital and in Latina Santa Maria Goretti Hospital. From 2003 was HOD in Orthopedic and Traumatology Department in Roma Clinic Annunziatella where he did more than 10.000 surgery. He was also Football Referee for FIGC for 15 years and also external orthopedic consultant for different football team. From 2014 in UAE. He uses the most advanced technologies and biological implant (PRP, Stamina cells, Ozone Therapy) and mini invasive surgery of hip head.