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### Adult stem cells and motivation in the injury tissues

Tissue injuries result in changing the host niche and niche factors that govern resident stem cell behaviors as well as disturbs donor stem cell regeneration. In the last few decades, the stem cell studies have become a well-established research area and their applications have moved to the clinic. However, several of the unconvinced issues, such as the injured tissue derived stem cells, how the injured environment involves the cellular reprogramming and differentiation abilities, have not been well investigated. In the recent literature, several publications have reported the significant contributions of injury tissues derived stem cells that explore multipotency and improved differentiation abilities. Those injury-motivated stem cells have been isolated from the injured musculoskeletal tissues, including the traumatic injured skeletal muscles and fractured bones. In this presentation, we will display our recent study on the injury muscle derived stem cells (iMuSCs), which include their potency stem cell behaviors and applications in tissue repair. We aim to create a multidisciplinary forum for discussion on those studies in traumatic injury tissues derived stem

cells. We will also focus on talking the injury-environmental change altering stem cell behaviors, as well as their potential biological role. Consequently, understanding the alteration of donor stem cells after implantation will stimulate their applications in the wound healings of various tissues.

#### Speaker Biography

Yong Li is an Associate Professor within the Center Stem Cell for Regenerative Medicine and Center for Tissue Engineering and Aging Research at the Brown Foundation Institute of Molecular Medicine (IMM), UT Health. He also is appointed as an Associate Professor in the Department of Pediatric and Orthopedic Surgery and Internal Medicine, UT Health. He has accomplished his MD and PhD training in China and was a General Surgeon before he went to London of the United Kingdom in 1997. His first research career as a Post-doctor fellow trained in Imperial College School of Medicine in the UK (1997-1999) and later as a Postdoctoral Research Associate in Children's Hospital of Pittsburgh of UPMC. His academic career includes more than 100 peer-reviewed publications; over seven millions' grant funding from NIH and DOD; over 50 training fellows and students; more than 28 national or international awards; over 30 times grant reviewer or panelist; service 10 journals' editor boards; more than 50 times' lecture in the conferences or seminars and 160 times of posters presentation in conferences.

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