

Univ. -Prof. Dr. Dr. Martijn Van Griensven

Martijn van Griensven is the director for the department of Experimental Trauma Surgery at the Technical University Munich (D). His research areas are related to engineering methods for the musculoskeletal system using stem cells of different sources, biomaterials, gene therapy and mechanical loading. His most recent grants deal with engineering the enthesis (ligament-to-bone transition), oxygen measurement in scaffolds and also with miRNA usage for diagnostics and therapeutics. Regarding the biomaterials, the group is using natural glasses that have different molecular compositions. Furthermore, these glasses are incorporated in 3D printed scaffolds to enhance the osteogenic and angiogenic capacity.