



[Ralph Müller](#) is currently a Professor of Biomechanics at the Department of Health Sciences and Technology and heads the Laboratory for Bone Biomechanics at ETH Zurich in Switzerland. He studied electrical engineering at ETH Zurich, where he also received his doctoral degree. Subsequently, he was involved in the development of a compact desktop micro-tomographic imaging system that has been commercialized and is now marketed worldwide. Before his tenure at ETH Zurich, he worked four years in Boston where he served as an Assistant Professor of Orthopaedic Surgery at Harvard Medical School. The research he has completed and is currently pursuing employs state-of-the-art biomechanical testing and simulation techniques as well as novel bioimaging and visualization strategies for musculoskeletal tissues. Today, these techniques are successfully employed for the quantitative assessment and monitoring of structure function relationships in tissue regeneration, growth and adaptation. His approaches are now often used for precise phenotypic characterization of tissue response in mammalian genetics, mechanobiology as well as tissue engineering and regenerative medicine. A prolific and highly cited author, Dr. Müller has received numerous awards and in 2015 was elected to the Swiss Academy of Engineering Sciences (SATW) and as a Fellow of the European Alliance for Medical and Biological Engineering and Science (EAMBES).