Department of Orthopaedics and Traumatology





Functional Biomechanics – Basic and Clinical Research

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Basic Research Clinical Research The effect of high tibial osteotomy on in vivo cartilage mechanobiology in patients with knee osteoarthritis Biomarkers B



Dose-response relationship of in vivo ambulatory load and mechanosensitive cartilage biomarkers: the role of age and tissue health





Load-induced changes in glenohumeral translation in rotator cuff tear





Orthopaedic conditions

- Hip and knee osteoarthritis
- Anterior cruciate ligament tear (repair and reconstruction)
- Adult acquired flat foot
- Spinal stenosis

- Rotator cuff tear
- Biceps tendon tear
- Hamstring tendon tear
- Pelvic fracture
- Patella instability





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Funding

Swiss National Science Foundation, Merian Iselin Foundation, Deutsche Arthrose-Hilfe, Swiss Orthopaedics

www.unispital-basel.ch/biomechanics