Romano Matthys

List of Publications by Year in Descending Order

25 papers	691 citations	14 h-index	25 g-index
25 ext. papers	796 ext. citations	3.5 avg, IF	3.09 L-index

#	Paper	IF	Citations
25	Limbostomy: Longitudinal Intravital Microendoscopy in Murine Osteotomies. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2020**, 97, 483-495	4.6	2
24	A novel MRI compatible mouse fracture model to characterize and monitor bone regeneration and tissue composition. *Scientific Reports*, **2020**, 10, 16238	4.9	1
23	Genetic variation in mice affects closed femoral fracture pattern outcomes. *Injury*, **2019**, 50, 639-647	2.5	2
22	In Vivo Evaluation of Fracture Callus Development During Bone Healing in Mice Using an MRI-compatible Osteosynthesis Device for the Mouse Femur. *Journal of Visualized Experiments*, **2017**,	1.6	4
21	Longitudinal intravital imaging of the femoral bone marrow reveals plasticity within marrow vasculature. *Nature Communications*, **2017**, 8, 2153	17.4	41
20	Evaluation of high-resolution In Vivo MRI for longitudinal analysis of endochondral fracture healing in mice. *PLoS ONE*, **2017**, 12, e0174283	3.7	12
19	Characterization of interfragmentary motion associated with common osteosynthesis devices for rat fracture healing studies. *PLoS ONE*, **2017**, 12, e0176735	3.7	6
18	An Intramedullary Locking Nail for Standardized Fixation of Femur Osteotomies to Analyze Normal and Defective Bone Healing in Mice. *Journal of Visualized Experiments*, **2016**,	1.6	7
17	Biomechanical comparison of pin and tension-band wire fixation with a prototype locking plate fixation in a transverse canine patellar fracture model. *Veterinary and Comparative Orthopaedics and Traumatology*, **2016**, 29, 20-8	1.2	6
16	A novel murine femoral segmental critical-sized defect model stabilized by plate osteosynthesis for bone tissue engineering purposes. *Tissue Engineering - Part C: Methods*, **2013**, 19, 271-80	2.9	27
15	A New Model to Study Healing of a Complex Femur Fracture with Concurrent Soft Tissue Injury in Sheep. *Open Journal of Orthopedics*, **2013**, 03, 62-68	0.1	1
14	A new model to analyze metaphyseal bone healing in mice. *Journal of Surgical Research*, **2012**, 178, 715-2215		16
13	Melatonin impairs fracture healing by suppressing RANKL-mediated bone remodeling. *Journal of Surgical Research*, **2012**, 173, 83-90	2.5	50
12	Plunging when drilling: effect of using blunt drill bits. *Journal of Orthopaedic Trauma*, **2012**, 26, 482-7	3.1	24
11	Small animal bone healing models: standards, tips, and pitfalls results of a consensus meeting. *Bone* , **2011**, 49, 591-9	4.7	118
10	The LockingMouseNail--a new implant for standardized stable osteosynthesis in mice. *Journal of Surgical Research*, **2011**, 169, 220-6	2.5	22
9	Sildenafil accelerates fracture healing in mice. *Journal of Orthopaedic Research*, **2011**, 29, 867-73	3.8	39

8	An internal locking plate to study intramembranous bone healing in a mouse femur fracture model. *Journal of Orthopaedic Research*, **2010**, 28, 397-402	3.8	45
7	Fracture healing in mice under controlled rigid and flexible conditions using an adjustable external fixator. *Journal of Orthopaedic Research*, **2010**, 28, 1456-62	3.8	80
6	In vivo gait analysis in a mouse femur fracture model. *Journal of Biomechanics*, **2010**, 43, 3240-3	2.9	11
5	Internal fixator for use in the mouse. *Injury*, **2009**, 40 Suppl 4, S103-9	2.5	34
4	Ex vivo analysis of rotational stiffness of different osteosynthesis techniques in mouse femur fracture. *Journal of Orthopaedic Research*, **2009**, 27, 1152-6	3.8	34
3	Fixation compliance in a mouse osteotomy model induces two different processes of bone healing but does not lead to delayed union. *Journal of Biomechanics*, **2009**, 42, 2089-96	2.9	39
2	Development of a stable closed femoral fracture model in mice. *Journal of Surgical Research*, **2009**, 153, 71-5	2.5	57
1	Mechanical evaluation of a new minimally invasive device for stabilization of proximal humeral fractures in elderly patients: a cadaver study. *Monthly Notices of the Royal Astronomical Society: Letters*, **2007**, 78, 430-5	4.3	13