Anita Ignatius

List of Publications by Year in Descending Order

278 papers	8,362 citations	46 h-index	76 g-index
308 ext. papers	9,896 ext. citations	5 avg, IF	6.09 L-index

#	Paper	IF	Citations
278	Bone Mass and Osteoblast Activity Are Sex-Dependent in Mice Lacking the Estrogen Receptor In Chondrocytes and Osteoblast Progenitor Cells.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	1
277	Knee Joint Menisci Are Shock Absorbers: A Biomechanical Study on Porcine Stifle Joints.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 837554	5.8	0
276	Inhibition of Cdk5 increases osteoblast differentiation and bone mass and improves fracture healing.. *Bone Research*, **2022**, 10, 33	13.3	0
275	Mast Cells Drive Systemic Inflammation and Compromised Bone Repair After Trauma.. *Frontiers in Immunology*, **2022**, 13, 883707	8.4	0
274	Correction: Steppe et al. Bone Mass and Osteoblast Activity Are Sex-Dependent in Mice Lacking the Estrogen Receptor In Chondrocytes and Osteoblast Progenitor Cells. Int. J. Mol. Sci. 2022, 23, 2902. *International Journal of Molecular Sciences*, **2022**, 23, 6020	6.3	
273	Interleukin-1More Than Mechanical Loading Induces a Degenerative Phenotype in Human Annulus Fibrosus Cells, Partially Impaired by Anti-Proteolytic Activity of Mesenchymal Stem Cell Secretome.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 802789	5.8	0
272	Temporal-spatial organ response after blast-induced experimental blunt abdominal trauma. *FASEB Journal*, **2021**, 35, e22038	0.9	1
271	Effects of immune cells on mesenchymal stem cells during fracture healing. *World Journal of Stem Cells*, **2021**, 13, 1670-1698	5.6	
270	Effects of immune cells on mesenchymal stem cells during fracture healing.. *World Journal of Stem Cells*, **2021**, 13, 1667-1695	5.6	0
269	Distinct Glucocorticoid Receptor Actions in Bone Homeostasis and Bone Diseases.. *Frontiers in Endocrinology*, **2021**, 12, 815386	5.7	1
268	Mast Cells Trigger Disturbed Bone Healing in Osteoporotic Mice. *Journal of Bone and Mineral Research*, **2021**,	6.3	3
267	Complement in trauma-Traumatised complement?. *British Journal of Pharmacology*, **2021**, 178, 2863-2879	8.6	6
266	Increased Presence of Complement Factors and Mast Cells in Alveolar Bone and Tooth Resorption. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
265	Biomechanics of a cemented short stem: a comparative in vitro study regarding primary stability and maximum fracture load. *Archives of Orthopaedic and Trauma Surgery*, **2021**, 141, 1797-1806	3.6	
264	Neuromapping of the Capsuloligamentous Knee Joint Structures. *Arthroscopy, Sports Medicine, and Rehabilitation*, **2021**, 3, e555-e563	2	2
263	Bursa-Derived Cells Show a Distinct Mechano-Response to Physiological and Pathological Loading. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 657166	5.7	1
262	Osteoarthritis-Related Degeneration Alters the Biomechanical Properties of Human Menisci Before the Articular Cartilage. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 659989	5.8	3

261	Interleukin-1β and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. *European Spine Journal*, **2021**, 30, 2247-2256	2.7	5
260	Piezo1 Inactivation in Chondrocytes Impairs Trabecular Bone Formation. *Journal of Bone and Mineral Research*, **2021**, 36, 369-384	6.3	17
259	Terminal complement complex formation is associated with intervertebral disc degeneration. *European Spine Journal*, **2021**, 30, 217-226	2.7	6
258	Simulating Metaphyseal Fracture Healing in the Distal Radius. *Biomechanics*, **2021**, 1, 29-42		3
257	Non-union bone fractures. *Nature Reviews Disease Primers*, **2021**, 7, 57	51.1	13
256	Persistent JunB activation in fibroblasts disrupts stem cell niche interactions enforcing skin aging. *Cell Reports*, **2021**, 36, 109634	10.6	1
255	Differences in Fracture Healing Between Female and Male C57BL/6J Mice. *Frontiers in Physiology*, **2021**, 12, 712494	4.6	6
254	A novel in vitro assay to study chondrocyte-to-osteoblast transdifferentiation. *Endocrine*, **2021**, 1	4	0
253	Biomechanics of a calcar loading and a shortened tapered femoral stem: Comparative in-vitro testing of primary stability and strain distribution. *Journal of Experimental Orthopaedics*, **2021**, 8, 74	2.3	
252	Role of the C5a-C5a receptor axis in the inflammatory responses of the lungs after experimental polytrauma and hemorrhagic shock. *Scientific Reports*, **2021**, 11, 2158	4.9	1
251	Estrogen Receptor β Signaling in Osteoblasts is Required for Mechanotransduction in Bone Fracture Healing.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 782355	5.8	1
250	Influence of Menisci on Tibiofemoral Contact Mechanics in Human Knees: A Systematic Review.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 765596	5.8	1
249	Meniscus Injury and its Surgical Treatment Does not Increase Initial Whole Knee Joint Friction.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 779946	5.8	1
248	A novel mouse model to study fracture healing of the proximal femur. *Journal of Orthopaedic Research*, **2020**, 38, 2131-2138	3.8	5
247	The Role of Mast Cells in Bone Metabolism and Bone Disorders. *Frontiers in Immunology*, **2020**, 11, 163	8.4	22
246	Degeneration Affects Three-Dimensional Strains in Human Menisci: MRI Acquisition Combined With Image Registration. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 582055	5.8	5
245	Biological and mechanical performance and degradation characteristics of calcium phosphate cements in large animals and humans. *Acta Biomaterialia*, **2020**, 117, 1-20	10.8	14
244	Systemic and Cardiac Alterations After Long Bone Fracture. *Shock*, **2020**, 54, 761-773	3.4	7

243	Effects of Estrogen Receptor and Wnt Signaling Activation on Mechanically Induced Bone Formation in a Mouse Model of Postmenopausal Bone Loss. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	6
242	Influence of Low-Magnitude High-Frequency Vibration on Bone Cells and Bone Regeneration. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 595139	5.8	10
241	Degeneration alters the biomechanical properties and structural composition of lateral human menisci. *Osteoarthritis and Cartilage*, **2020**, 28, 1482-1491	6.2	7
240	Optimizing Manufacturing and Osseointegration of Ti6Al4V Implants through Precision Casting and Calcium and Phosphorus Ion Implantation? In Vivo Results of a Large-Scale Animal Trial. *Materials*, **2020**, 13,	3.5	3
239	Intact Glucocorticoid Receptor Dimerization Is Deleterious in Trauma-Induced Impaired Fracture Healing. *Frontiers in Immunology*, **2020**, 11, 628287	8.4	1
238	Review of Animal Models of Comorbidities in Fracture-Healing Research. *Journal of Orthopaedic Research*, **2019**, 37, 2491-2498	3.8	17
237	Trefoil Factor 3 (TFF3) Is Involved in Cell Migration for Skeletal Repair. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	3
236	German Society of Biomechanics (DGfB) Young Investigator Award 2019: Proof-of-Concept of a Novel Knee Joint Simulator Allowing Rapid Motions at Physiological Muscle and Ground Reaction Forces. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 244	5.8	3
235	GEORG SCHMORL PRIZE OF THE GERMAN SPINE SOCIETY (DWG) 2018: combined inflammatory and mechanical stress weakens the annulus fibrosus: evidences from a loaded bovine AF organ culture. *European Spine Journal*, **2019**, 28, 922-933	2.7	9
234	The effect of knee brace misalignment on the anterior cruciate ligament: An experimental study. *Prosthetics and Orthotics International*, **2019**, 43, 309-315	1.5	2
233	Newly Defined ATP-Binding Cassette Subfamily B Member 5 Positive Dermal Mesenchymal Stem Cells Promote Healing of Chronic Iron-Overload Wounds via Secretion of Interleukin-1 Receptor Antagonist. *Stem Cells*, **2019**, 37, 1057-1074	5.8	19
232	Biologische Einflussfaktoren auf die Knochenbruchheilung. *OP-Journal*, **2019**, 35, 5-10	0	
231	Histomorphometric Analysis of Callus Formation Stimulated by Axial Dynamisation in a Standardised Ovine Osteotomy Model. *BioMed Research International*, **2019**, 2019, 4250940	3	2
230	Articular cartilage and meniscus reveal higher friction in swing phase than in stance phase under dynamic gait conditions. *Scientific Reports*, **2019**, 9, 5785	4.9	11
229	Chronic psychosocial stress compromises the immune response and endochondral ossification during bone fracture healing via AR signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8615-8622	11.5	21
228	Meniscal Replacement With a Silk Fibroin Scaffold Reduces Contact Stresses in the Human Knee. *Journal of Orthopaedic Research*, **2019**, 37, 2583-2592	3.8	7
227	Initial Harm Reduction by N-Acetylcysteine Alleviates Cartilage Degeneration after Blunt Single-Impact Cartilage Trauma in Vivo. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	3
226	Analysis of microscopic bone properties in an osteoporotic sheep model: a combined biomechanics, FE and ToF-SIMS study. *Journal of the Royal Society Interface*, **2019**, 16, 20180793	4.1	3

225	Reduced Terminal Complement Complex Formation in Mice Manifests in Low Bone Mass and Impaired Fracture Healing. *American Journal of Pathology*, **2019**, 189, 147-161	5.8	5
224	The challenge of implant integration in partial meniscal replacement: an experimental study on a silk fibroin scaffold in sheep. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2019**, 27, 369-380	5.5	7
223	Release of the medial collateral ligament is mandatory in medial open-wedge high tibial osteotomy. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2019**, 27, 2917-2926	5.5	13
222	Strontium(II) and mechanical loading additively augment bone formation in calcium phosphate scaffolds. *Journal of Orthopaedic Research*, **2018**, 36, 106-117	3.8	20
221	Janus face of complement-driven neutrophil activation during sepsis. *Seminars in Immunology*, **2018**, 37, 12-20	10.7	12
220	Neuroinflammation after Traumatic Brain Injury Is Enhanced in Activating Transcription Factor 3 Mutant Mice. *Journal of Neurotrauma*, **2018**, 35, 2317-2329	5.4	28
219	Pharmacological inhibition of IL-6 trans-signaling improves compromised fracture healing after severe trauma. *Naunyn-Schmiedebergjs Archives of Pharmacology*, **2018**, 391, 523-536	3.4	27
218	Bone regeneration capacity of magnesium phosphate cements in a large animal model. *Acta Biomaterialia*, **2018**, 69, 352-361	10.8	43
217	Estrogen receptor (ER), but not ER signaling, is crucially involved in mechanostimulation of bone fracture healing by whole-body vibration. *Bone*, **2018**, 110, 11-20	4.7	24
216	Complement involvement in bone homeostasis and bone disorders. *Seminars in Immunology*, **2018**, 37, 53-65	10.7	43
215	Biomechanics of a cemented short stem: Standard vs. line-to-line cementation techniques. A biomechanical in-vitro study involving six osteoporotic pairs of human cadaver femurs. *Clinical Biomechanics*, **2018**, 52, 86-94	2.2	13
214	Molecular mechanisms of glucocorticoids on skeleton and bone regeneration after fracture. *Journal of Molecular Endocrinology*, **2018**, 61, R75-R90	4.5	36
213	Striking a new path in reducing cartilage breakdown: combination of antioxidative therapy and chondroanabolic stimulation after blunt cartilage trauma. *Journal of Cellular and Molecular Medicine*, **2018**, 22, 77-88	5.6	5
212	Calcium and vitamin D in bone fracture healing and post-traumatic bone turnover. *European Cells and Materials*, **2018**, 35, 365-385	4.3	43
211	Biomechanical, structural and biological characterisation of a new silk fibroin scaffold for meniscal repair. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 86, 314-324	4.1	15
210	Effects of low-magnitude high-frequency vibration on osteoblasts are dependent on estrogen receptor signaling and cytoskeletal remodeling. *Biochemical and Biophysical Research Communications*, **2018**, 503, 2678-2684	3.4	14
209	New horizons for osteoanabolic treatment?. *Nature Reviews Endocrinology*, **2018**, 14, 508-509	15.2	3
208	Influence of Menopause on Inflammatory Cytokines during Murine and Human Bone Fracture Healing. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	22

207	The mode of interfragmentary movement affects bone formation and revascularization after callus distraction. *PLoS ONE*, **2018**, 13, e0202702	3.7	17
206	Simulating lateral distraction osteogenesis. *PLoS ONE*, **2018**, 13, e0194500	3.7	8
205	Loss of p53 compensates osteopenia in murine Mysm1 deficiency. *FASEB Journal*, **2018**, 32, 1957-1968	0.9	11
204	Induced global deletion of glucocorticoid receptor impairs fracture healing. *FASEB Journal*, **2018**, 32, 2235-2245	0.9	16
203	Distinct Effects of IL-6 Classic and Trans-Signaling in Bone Fracture Healing. *American Journal of Pathology*, **2018**, 188, 474-490	5.8	54
202	Impact of five different medial patellofemoral ligament-reconstruction strategies and three different graft pre-tensioning states on the mean patellofemoral contact pressure: a biomechanical study on human cadaver knees. *Journal of Experimental Orthopaedics*, **2018**, 5, 25	2.3	4
201	The Role of the Intestinal Microbiome in Chronic Psychosocial Stress-Induced Pathologies in Male Mice. *Frontiers in Behavioral Neuroscience*, **2018**, 12, 252	3.5	15
200	Do Prophylactic Knee Braces Protect the Knee Against Impacts or Tibial Moments? An In Vitro Multisensory Study. *Orthopaedic Journal of Sports Medicine*, **2018**, 6, 2325967118805399	3.5	4
199	C5aR1 interacts with TLR2 in osteoblasts and stimulates the osteoclast-inducing chemokine CXCL10. *Journal of Cellular and Molecular Medicine*, **2018**, 22, 6002-6014	5.6	12
198	Role of the Complement System in the Response to Orthopedic Biomaterials. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	25
197	Autologous Mesenchymal Stroma Cells Are Superior to Allogeneic Ones in Bone Defect Regeneration. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	12
196	Evolution of callus tissue behavior during stable distraction osteogenesis. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 85, 12-19	4.1	9
195	Neutrophils in Tissue Trauma of the Skin, Bone, and Lung: Two Sides of the Same Coin. *Journal of Immunology Research*, **2018**, 2018, 8173983	4.5	48
194	Intramembranous bone formation after callus distraction is augmented by increasing axial compressive strain. *PLoS ONE*, **2018**, 13, e0195466	3.7	6
193	ACL double-bundle reconstruction with one tibial tunnel provides equal stability compared to two tibial tunnels. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2017**, 25, 1646-1652	5.5	6
192	Influence of tibial hybrid fixation on graft tension and stability in ACL double-bundle reconstruction. *Archives of Orthopaedic and Trauma Surgery*, **2017**, 137, 981-988	3.6	0
191	Complement C5a Functions as a Master Switch for the pH Balance in Neutrophils Exerting Fundamental Immunometabolic Effects. *Journal of Immunology*, **2017**, 198, 4846-4854	5.3	34
190	Spinal fusion without instrumentation - Experimental animal study. *Clinical Biomechanics*, **2017**, 46, 6-14	2.2	4

189	Osteocyte Regulation of Receptor Activator of NF-Β Ligand/Osteoprotegerin in a Sheep Model of Osteoporosis. *American Journal of Pathology*, **2017**, 187, 1686-1699	5.8	9
188	The effect of a combined thoracic and soft-tissue trauma on blood flow and tissue formation in fracture healing in rats. *Archives of Orthopaedic and Trauma Surgery*, **2017**, 137, 945-952	3.6	4
187	Tenomodulin is Required for Tendon Endurance Running and Collagen I Fibril Adaptation to Mechanical Load. *EBioMedicine*, **2017**, 20, 240-254	8.8	53
186	Sheep model for osteoporosis: The effects of peripheral hormone therapy on centrally induced systemic bone loss in an osteoporotic sheep model. *Injury*, **2017**, 48, 841-848	2.5	6
185	Friction properties of a new silk fibroin scaffold for meniscal replacement. *Tribology International*, **2017**, 109, 586-592	4.9	15
184	Dissection of mechanoresponse elements in promoter sites of the mechanoresponsive CYR61 gene. *Experimental Cell Research*, **2017**, 354, 103-111	4.2	5
183	Mg:Ca ratio as regulating factor for osteoclastic in vitro resorption of struvite biocements. *Materials Science and Engineering C*, **2017**, 73, 111-119	8.3	14
182	Complement receptors C5aR1 and C5aR2 act differentially during the early immune response after bone fracture but are similarly involved in bone repair. *Scientific Reports*, **2017**, 7, 14061	4.9	19
181	Chronic psychosocial stress disturbs long-bone growth in adolescent mice. *DMM Disease Models and Mechanisms*, **2017**, 10, 1399-1409	4.1	13
180	The inflammatory phase of fracture healing is influenced by oestrogen status in mice. *European Journal of Medical Research*, **2017**, 22, 23	4.8	27
179	Phytic acid as alternative setting retarder enhanced biological performance of dicalcium phosphate cement in vitro. *Scientific Reports*, **2017**, 7, 558	4.9	17
178	Calcium and vitamin-D deficiency marginally impairs fracture healing but aggravates posttraumatic bone loss in osteoporotic mice. *Scientific Reports*, **2017**, 7, 7223	4.9	23
177	Spatiotemporally Controlled Release of Rho-Inhibiting C3 Toxin from a Protein-DNA Hybrid Hydrogel for Targeted Inhibition of Osteoclast Formation and Activity. *Advanced Healthcare Materials*, **2017**, 6, 1700392	10.1	38
176	Mast Cells Are Critical Regulators of Bone Fracture-Induced Inflammation and Osteoclast Formation and Activity. *Journal of Bone and Mineral Research*, **2017**, 32, 2431-2444	6.3	35
175	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
174	Modulation of fixation stiffness from flexible to stiff in a rat model of bone healing. *Monthly Notices of the Royal Astronomical Society: Letters*, **2017**, 88, 217-222	4.3	30
173	Evaluation of high-resolution In Vivo MRI for longitudinal analysis of endochondral fracture healing in mice. *PLoS ONE*, **2017**, 12, e0174283	3.7	12
172	Characterization of interfragmentary motion associated with common osteosynthesis devices for rat fracture healing studies. *PLoS ONE*, **2017**, 12, e0176735	3.7	6

171	Osteoblast-specific overexpression of complement receptor C5aR1 impairs fracture healing. *PLoS ONE*, **2017**, 12, e0179512	3.7	16
170	Novel systems for the application of isolated tensile, compressive, and shearing stimulation of distraction callus tissue. *PLoS ONE*, **2017**, 12, e0189432	3.7	12
169	Antioxidative therapy in an ex vivo human cartilage trauma-model: attenuation of trauma-induced cell loss and ECM-destructive enzymes by N-acetyl cysteine. *Osteoarthritis and Cartilage*, **2016**, 24, 2171-2180	6.2	16
168	Antagonizing midkine accelerates fracture healing in mice by enhanced bone formation in the fracture callus. *British Journal of Pharmacology*, **2016**, 173, 2237-49	8.6	19
167	Mechanobiology of bone remodeling and fracture healing in the aged organism. *Innovative Surgical Sciences*, **2016**, 1, 57-63	0.8	11
166	C5aR inhibition in the early inflammatory phase does not affect bone regeneration in a model of uneventful fracture healing. *European Journal of Medical Research*, **2016**, 21, 42	4.8	7
165	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An Ex Vivo Model for Anti-inflammatory Drug and Cell Therapy. *Tissue Engineering - Part C: Methods*, **2016**, 22, 8-19	2.9	28
164	Deterioration of teeth and alveolar bone loss due to chronic environmental high-level fluoride and low calcium exposure. *Clinical Oral Investigations*, **2016**, 20, 2361-2370	4.2	9
163	Fracture Healing Is Delayed in Immunodeficient NOD/scid- IL2R null Mice. *PLoS ONE*, **2016**, 11, e0147465	3.7	27
162	The crucial role of neutrophil granulocytes in bone fracture healing. *European Cells and Materials*, **2016**, 32, 152-62	4.3	77
161	Primary stability of a shoulderless Zweymüller hip stem: a comparative in vitro micromotion study. *Journal of Orthopaedic Surgery and Research*, **2016**, 11, 73	2.8	10
160	Inhibition of Midkine Augments Osteoporotic Fracture Healing. *PLoS ONE*, **2016**, 11, e0159278	3.7	15
159	Mouse Models in Bone Fracture Healing Research. *Current Molecular Biology Reports*, **2016**, 2, 101-111	2	36
158	The influence of the test setup on knee joint kinematics - A meta-analysis of tibial rotation. *Journal of Biomechanics*, **2016**, 49, 2982-2988	2.9	7
157	Hypochlorhydria-induced calcium malabsorption does not affect fracture healing but increases post-traumatic bone loss in the intact skeleton. *Journal of Orthopaedic Research*, **2016**, 34, 1914-1921	3.8	10
156	Small changes in bone structure of female α nicotinic acetylcholine receptor knockout mice. *BMC Musculoskeletal Disorders*, **2015**, 16, 5	2.8	11
155	Mechanical stimulation of human tendon stem/progenitor cells results in upregulation of matrix proteins, integrins and MMPs, and activation of p38 and ERK1/2 kinases. *BMC Molecular Biology*, **2015**, 16, 6	4.5	65
154	Material properties of individual menisci and their attachments obtained through inverse FE-analysis. *Journal of Biomechanics*, **2015**, 48, 1343-9	2.9	13

153	Mechanical properties and morphological analysis of the transitional zone between meniscal body and ligamentous meniscal attachments. *Journal of Biomechanics*, **2015**, 48, 1350-5	2.9	11
152	Impaired extracellular matrix structure resulting from malnutrition in ovariectomized mature rats. *Histochemistry and Cell Biology*, **2015**, 144, 491-507	2.4	14
151	Differential Interactive Effects of Cartilage Traumatization and Blood Exposure In Vitro and In Vivo. *American Journal of Sports Medicine*, **2015**, 43, 2822-32	6.8	7
150	Bone status of acetylcholinesterase-knockout mice. *International Immunopharmacology*, **2015**, 29, 222-30	3.8	10
149	Processed xenogenic cartilage as innovative biomatrix for cartilage tissue engineering: effects on chondrocyte differentiation and function. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, E239-51	4.4	58
148	In vivo performance of a novel silk fibroin scaffold for partial meniscal replacement in a sheep model. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2015**, 23, 2218-2229	5.5	43
147	In vivo performance of novel soybean/gelatin-based bioactive and injectable hydroxyapatite foams. *Acta Biomaterialia*, **2015**, 12, 242-249	10.8	30
146	Influence of partial meniscectomy on attachment forces, superficial strain and contact mechanics in porcine knee joints. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2015**, 23, 74-82	5.5	13
145	The molecular fingerprint of lung inflammation after blunt chest trauma. *European Journal of Medical Research*, **2015**, 20, 70	4.8	29
144	Analgesia via blockade of NGF/TrkA signaling does not influence fracture healing in mice. *Journal of Orthopaedic Research*, **2015**, 33, 1235-41	3.8	22
143	Exposure to 100% Oxygen Abolishes the Impairment of Fracture Healing after Thoracic Trauma. *PLoS ONE*, **2015**, 10, e0131194	3.7	21
142	Blunt Chest Trauma in Mice after Cigarette Smoke-Exposure: Effects of Mechanical Ventilation with 100% O2. *PLoS ONE*, **2015**, 10, e0132810	3.7	20
141	Role of Complement on Broken Surfaces After Trauma. *Advances in Experimental Medicine and Biology*, **2015**, 865, 43-55	3.6	23
140	Phosphorylation and turnover of paxillin in focal contacts is controlled by force and defines the dynamic state of the adhesion site. *Cytoskeleton*, **2015**, 72, 101-12	2.4	13
139	The impact of low-magnitude high-frequency vibration on fracture healing is profoundly influenced by the oestrogen status in mice. *DMM Disease Models and Mechanisms*, **2015**, 8, 93-104	4.1	46
138	Comparison between different methods for biomechanical assessment of ex vivo fracture callus stiffness in small animal bone healing studies. *PLoS ONE*, **2015**, 10, e0119603	3.7	22
137	Systemic mesenchymal stem cell administration enhances bone formation in fracture repair but not load-induced bone formation. *European Cells and Materials*, **2015**, 29, 22-34	4.3	23
136	Finite element modeling of soft tissues: material models, tissue interaction and challenges. *Clinical Biomechanics*, **2014**, 29, 363-72	2.2	94

135	Bone matrix, cellularity, and structural changes in a rat model with high-turnover osteoporosis induced by combined ovariectomy and a multiple-deficient diet. *American Journal of Pathology*, **2014**, 184, 765-77	5.8	19
134	Demineralization after balloon kyphoplasty with calcium phosphate cement: a histological evaluation in ten patients. *European Spine Journal*, **2014**, 23, 1361-8	2.7	10
133	Control of in vivo mineral bone cement degradation. *Acta Biomaterialia*, **2014**, 10, 3279-87	10.8	79
132	Mandibular bone loss in ewe induced by hypothalamic-pituitary disconnection. *Clinical Oral Implants Research*, **2014**, 25, 1239-1244	4.8	3
131	Temporal delimitation of the healing phases via monitoring of fracture callus stiffness in rats. *Journal of Orthopaedic Research*, **2014**, 32, 1589-95	3.8	11
130	Calcium Cl/OH-apatite, Cl/OH-apatite/Al2O3 and Ca3(PO4)2 fibre nonwovens: Potential ceramic components for osteosynthesis. *Journal of the European Ceramic Society*, **2014**, 34, 3993-4000	6	3
129	Osteoarthritic cartilage explants affect extracellular matrix production and composition in cocultured bone marrow-derived mesenchymal stem cells and articular chondrocytes. *Stem Cell Research and Therapy*, **2014**, 5, 77	8.3	23
128	H2S during circulatory shock: some unresolved questions. *Nitric Oxide - Biology and Chemistry*, **2014**, 41, 48-61	5	47
127	Delayed bone healing following high tibial osteotomy related to increased implant stiffness in locked plating. *Injury*, **2014**, 45, 1648-52	2.5	41
126	Differences of bone healing in metaphyseal defect fractures between osteoporotic and physiological bone in rats. *Injury*, **2014**, 45, 487-93	2.5	32
125	Improved anchorage of Ti6Al4V orthopaedic bone implants through oligonucleotide mediated immobilization of BMP-2 in osteoporotic rats. *PLoS ONE*, **2014**, 9, e86151	3.7	18
124	Numerical simulation of callus healing for optimization of fracture fixation stiffness. *PLoS ONE*, **2014**, 9, e101370	3.7	34
123	Osteoblast-specific Krm2 overexpression and Lrp5 deficiency have different effects on fracture healing in mice. *PLoS ONE*, **2014**, 9, e103250	3.7	16
122	Prediction of the time course of callus stiffness as a function of mechanical parameters in experimental rat fracture healing studies--a numerical study. *PLoS ONE*, **2014**, 9, e115695	3.7	23
121	Disadvantages of interfragmentary shear on fracture healing--mechanical insights through numerical simulation. *Journal of Orthopaedic Research*, **2014**, 32, 865-72	3.8	37
120	Medial meniscal displacement and strain in three dimensions under compressive loads: MR assessment. *Journal of Magnetic Resonance Imaging*, **2014**, 40, 1181-8	5.6	30
119	Distinct frequency dependent effects of whole-body vibration on non-fractured bone and fracture healing in mice. *Journal of Orthopaedic Research*, **2014**, 32, 1006-13	3.8	37
118	Subchondral bone influences chondrogenic differentiation and collagen production of human bone marrow-derived mesenchymal stem cells and articular chondrocytes. *Arthritis Research and Therapy*, **2014**, 16, 453	5.7	35

117	Increase or decrease in stability after nucleotomy? Conflicting in vitro and in vivo results in the sheep model. *Journal of the Royal Society Interface*, **2014**, 11, 20140650	4.1	10
116	Molecular interactions between human cartilaginous endplates and nucleus pulposus cells: a preliminary investigation. *Spine*, **2014**, 39, 1355-64	3.3	19
115	TSG-6 released from intradermally injected mesenchymal stem cells accelerates wound healing and reduces tissue fibrosis in murine full-thickness skin wounds. *Journal of Investigative Dermatology*, **2014**, 134, 526-537	4.3	153
114	In vivo biofunctional evaluation of hydrogels for disc regeneration. *European Spine Journal*, **2014**, 23, 19-26	2.7	29
113	Midkine-deficiency delays chondrogenesis during the early phase of fracture healing in mice. *PLoS ONE*, **2014**, 9, e116282	3.7	27
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