

# Anita Ignatius

## List of Publications by Year in descending order

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288  
papers

11,405  
citations

34105

52  
h-index

49909

87  
g-index

308  
all docs

308  
docs citations

308  
times ranked

12687  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel in vitro assay to study chondrocyte-to-osteoblast transdifferentiation. <i>Endocrine</i> , 2022, 75, 266-275.	2.3	5
2	G6b-B regulates an essential step in megakaryocyte maturation. <i>Blood Advances</i> , 2022, 6, 3155-3161.	5.2	11
3	Inhibition of Cdk5 Ameliorates Skeletal Bone Loss in Glucocorticoid-Treated Mice. <i>Biomedicines</i> , 2022, 10, 404.	3.2	3
4	Bone Mass and Osteoblast Activity Are Sex-Dependent in Mice Lacking the Estrogen Receptor $\hat{\pm}$ in Chondrocytes and Osteoblast Progenitor Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2902.	4.1	6
5	Knee Joint Menisci Are Shock Absorbers: A Biomechanical In-Vitro Study on Porcine Stifle Joints. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 837554.	4.1	2
6	In Vitro Characterization of Doxorubicin-Mediated Stress-Induced Premature Senescence in Human Chondrocytes. <i>Cells</i> , 2022, 11, 1106.	4.1	13
7	Inhibition of Cdk5 increases osteoblast differentiation and bone mass and improves fracture healing. <i>Bone Research</i> , 2022, 10, 33.	11.4	9
8	Osteoblast lineage <i>Sod2</i> deficiency leads to an osteoporosis-like phenotype in mice. <i>DMM Disease Models and Mechanisms</i> , 2022, 15, .	2.4	16
9	Accelerated bone regeneration through rational design of magnesium phosphate cements. <i>Acta Biomaterialia</i> , 2022, 145, 358-371.	8.3	26
10	Mast Cells Drive Systemic Inflammation and Compromised Bone Repair After Trauma. <i>Frontiers in Immunology</i> , 2022, 13, 883707.	4.8	8
11	Correction: Steppe et al. Bone Mass and Osteoblast Activity Are Sex-Dependent in Mice Lacking the Estrogen Receptor $\hat{\pm}$ in Chondrocytes and Osteoblast Progenitor Cells. <i>Int. J. Mol. Sci.</i> 2022, 23, 2902. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6020.	4.1	2
12	Complement in traumaâ€™Traumatised complement?. <i>British Journal of Pharmacology</i> , 2021, 178, 2863-2879.	5.4	21
13	Terminal complement complex formation is associated with intervertebral disc degeneration. <i>European Spine Journal</i> , 2021, 30, 217-226.	2.2	11
14	Simulating Metaphyseal Fracture Healing in the Distal Radius. <i>Biomechanics</i> , 2021, 1, 29-42.	1.2	5
15	Increased Presence of Complement Factors and Mast Cells in Alveolar Bone and Tooth Resorption. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2759.	4.1	3
16	Biomechanics of a cemented short stem: a comparative in vitro study regarding primary stability and maximum fracture load. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 1797-1806.	2.4	1
17	Neuromapping of the Capsuloligamentous Knee Joint Structures. <i>Arthroscopy, Sports Medicine, and Rehabilitation</i> , 2021, 3, e555-e563.	1.7	2
18	Bursa-Derived Cells Show a Distinct Mechano-Response to Physiological and Pathological Loading in vitro. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 657166.	3.7	3

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19	Osteoarthritis-Related Degeneration Alters the Biomechanical Properties of Human Menisci Before the Articular Cartilage. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 659989.	4.1	19
20	Interleukin-1 $\beta$ and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. <i>European Spine Journal</i> , 2021, 30, 2247-2256.	2.2	9
21	Non-union bone fractures. <i>Nature Reviews Disease Primers</i> , 2021, 7, 57.	30.5	122
22	Persistent JunB activation in fibroblasts disrupts stem cell niche interactions enforcing skin aging. <i>Cell Reports</i> , 2021, 36, 109634.	6.4	17
23	Differences in Fracture Healing Between Female and Male C57BL/6J Mice. <i>Frontiers in Physiology</i> , 2021, 12, 712494.	2.8	28
24	Biomechanics of a calcar loading and a shortened tapered femoral stem: Comparative in-vitro testing of primary stability and strain distribution. <i>Journal of Experimental Orthopaedics</i> , 2021, 8, 74.	1.8	2
25	Role of the C5a-C5a receptor axis in the inflammatory responses of the lungs after experimental polytrauma and hemorrhagic shock. <i>Scientific Reports</i> , 2021, 11, 2158.	3.3	9
26	Temporal-spatial organ response after blast-induced experimental blunt abdominal trauma. <i>FASEB Journal</i> , 2021, 35, e22038.	0.5	6
27	Effects of immune cells on mesenchymal stem cells during fracture healing. <i>World Journal of Stem Cells</i> , 2021, 13, 1670-1698.	2.8	0
28	Effects of immune cells on mesenchymal stem cells during fracture healing. <i>World Journal of Stem Cells</i> , 2021, 13, 1667-1695.	2.8	15
29	Distinct Glucocorticoid Receptor Actions in Bone Homeostasis and Bone Diseases. <i>Frontiers in Endocrinology</i> , 2021, 12, 815386.	3.5	9
30	Interleukin-1 $\beta$ More Than Mechanical Loading Induces a Degenerative Phenotype in Human Annulus Fibrosus Cells, Partially Impaired by Anti-Proteolytic Activity of Mesenchymal Stem Cell Secretome. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 802789.	4.1	4
31	Estrogen Receptor $\beta$ Signaling in Osteoblasts is Required for Mechanotransduction in Bone Fracture Healing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 782355.	4.1	8
32	Influence of Menisci on Tibiofemoral Contact Mechanics in Human Knees: A Systematic Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 765596.	4.1	18
33	Meniscus Injury and its Surgical Treatment Does not Increase Initial Whole Knee Joint Friction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 779946.	4.1	5
34	Degeneration Affects Three-Dimensional Strains in Human Menisci: In situ MRI Acquisition Combined With Image Registration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 582055.	4.1	8
35	Biological and mechanical performance and degradation characteristics of calcium phosphate cements in large animals and humans. <i>Acta Biomaterialia</i> , 2020, 117, 1-20.	8.3	62
36	Systemic and Cardiac Alterations After Long Bone Fracture. <i>Shock</i> , 2020, 54, 761-773.	2.1	12

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37	Effects of Estrogen Receptor and Wnt Signaling Activation on Mechanically Induced Bone Formation in a Mouse Model of Postmenopausal Bone Loss. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8301.	4.1	18
38	Influence of Low-Magnitude High-Frequency Vibration on Bone Cells and Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 595139.	4.1	20
39	Degeneration alters the biomechanical properties and structural composition of lateral human menisci. <i>Osteoarthritis and Cartilage</i> , 2020, 28, 1482-1491.	1.3	26
40	A novel mouse model to study fracture healing of the proximal femur. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2131-2138.	2.3	8
41	Editorial: Innate Immunity in the Context of Osteoimmunology. <i>Frontiers in Immunology</i> , 2020, 11, 603.	4.8	2
42	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. <i>Materials</i> , 2020, 13, 1670.	2.9	5
43	Piezo1 Inactivation in Chondrocytes Impairs Trabecular Bone Formation. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 369-384.	2.8	55
44	Intact Glucocorticoid Receptor Dimerization Is Deleterious in Trauma-Induced Impaired Fracture Healing. <i>Frontiers in Immunology</i> , 2020, 11, 628287.	4.8	4
45	The Role of Mast Cells in Bone Metabolism and Bone Disorders. <i>Frontiers in Immunology</i> , 2020, 11, 163.	4.8	50
46	Mast Cells Trigger Disturbed Bone Healing in Osteoporotic Mice. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 137-151.	2.8	16
47	Meniscal Replacement With a Silk Fibroin Scaffold Reduces Contact Stresses in the Human Knee. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2583-2592.	2.3	16
48	Initial Harm Reduction by N-Acetylcysteine Alleviates Cartilage Degeneration after Blunt Single-Impact Cartilage Trauma in Vivo. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2916.	4.1	6
49	Review of Animal Models of Comorbidities in Fracture Healing Research. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2491-2498.	2.3	27
50	Trefoil Factor 3 (TFF3) Is Involved in Cell Migration for Skeletal Repair. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4277.	4.1	9
51	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. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 244.	4.1	6
52	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. <i>European Spine Journal</i> , 2019, 28, 922-933.	2.2	14
53	The effect of knee brace misalignment on the anterior cruciate ligament. <i>Prosthetics and Orthotics International</i> , 2019, 43, 309-315.	1.0	5
54	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. <i>Stem Cells</i> , 2019, 37, 1057-1074.	3.2	41

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55	Histomorphometric Analysis of Callus Formation Stimulated by Axial Dynamisation in a Standardised Ovine Osteotomy Model. <i>BioMed Research International</i> , 2019, 2019, 1-12.	1.9	5
56	Articular cartilage and meniscus reveal higher friction in swing phase than in stance phase under dynamic gait conditions. <i>Scientific Reports</i> , 2019, 9, 5785.	3.3	21
57	Chronic psychosocial stress compromises the immune response and endochondral ossification during bone fracture healing via I <sup>2</sup> -AR signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8615-8622.	7.1	50
58	Analysis of microscopic bone properties in an osteoporotic sheep model: a combined biomechanics, FE and ToF-SIMS study. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180793.	3.4	10
59	Reduced Terminal Complement Complex Formation in Mice Manifests in Low Bone Mass and Impaired Fracture Healing. <i>American Journal of Pathology</i> , 2019, 189, 147-161.	3.8	9
60	The challenge of implant integration in partial meniscal replacement: an experimental study on a silk fibroin scaffold in sheep. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 369-380.	4.2	13
61	Release of the medial collateral ligament is mandatory in medial open-wedge high tibial osteotomy. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 2917-2926.	4.2	21
62	Strontium(II) and mechanical loading additively augment bone formation in calcium phosphate scaffolds. <i>Journal of Orthopaedic Research</i> , 2018, 36, 106-117.	2.3	39
63	Janus face of complement-driven neutrophil activation during sepsis. <i>Seminars in Immunology</i> , 2018, 37, 12-20.	5.6	19
64	Neuroinflammation after Traumatic Brain Injury Is Enhanced in Activating Transcription Factor 3 Mutant Mice. <i>Journal of Neurotrauma</i> , 2018, 35, 2317-2329.	3.4	47
65	Pharmacological inhibition of IL-6 trans-signaling improves compromised fracture healing after severe trauma. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018, 391, 523-536.	3.0	41
66	Bone regeneration capacity of magnesium phosphate cements in a large animal model. <i>Acta Biomaterialia</i> , 2018, 69, 352-361.	8.3	91
67	Estrogen receptor $\hat{1}\pm$ - (ER $\hat{1}\pm$ ), but not ER $\hat{2}$ -signaling, is crucially involved in mechanostimulation of bone fracture healing by whole-body vibration. <i>Bone</i> , 2018, 110, 11-20.	2.9	26
68	Complement involvement in bone homeostasis and bone disorders. <i>Seminars in Immunology</i> , 2018, 37, 53-65.	5.6	69
69	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. <i>Clinical Biomechanics</i> , 2018, 52, 86-94.	1.2	17
70	Molecular mechanisms of glucocorticoids on skeleton and bone regeneration after fracture. <i>Journal of Molecular Endocrinology</i> , 2018, 61, R75-R90.	2.5	74
71	Striking a new path in reducing cartilage breakdown: combination of antioxidative therapy and chondroanabolic stimulation after blunt cartilage trauma. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 77-88.	3.6	9
72	Loss of p53 compensates osteopenia in murine Mysml deficiency. <i>FASEB Journal</i> , 2018, 32, 1957-1968.	0.5	18

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73	Induced global deletion of glucocorticoid receptor impairs fracture healing. <i>FASEB Journal</i> , 2018, 32, 2235-2245.	0.5	23
74	Distinct Effects of IL-6 Classic and Trans -Signaling in Bone Fracture Healing. <i>American Journal of Pathology</i> , 2018, 188, 474-490.	3.8	81
75	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. <i>Journal of Experimental Orthopaedics</i> , 2018, 5, 25.	1.8	11
76	The Role of the Intestinal Microbiome in Chronic Psychosocial Stress-Induced Pathologies in Male Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 252.	2.0	29
77	Do Prophylactic Knee Braces Protect the Knee Against Impacts or Tibial Moments? An In Vitro Multisensory Study. <i>Orthopaedic Journal of Sports Medicine</i> , 2018, 6, 232596711880539.	1.7	7
78	C5aR1 interacts with <sc>TLR</sc>2 in osteoblasts and stimulates the osteoclastâ€ inducing chemokine <sc>CXCL</sc>10. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 6002-6014.	3.6	28
79	Role of the Complement System in the Response to Orthopedic Biomaterials. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3367.	4.1	38
80	Autologous Mesenchymal Stroma Cells Are Superior to Allogeneic Ones in Bone Defect Regeneration. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2526.	4.1	15
81	Evolution of callus tissue behavior during stable distraction osteogenesis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 85, 12-19.	3.1	11
82	Neutrophils in Tissue Trauma of the Skin, Bone, and Lung: Two Sides of the Same Coin. <i>Journal of Immunology Research</i> , 2018, 2018, 1-12.	2.2	88
83	Intramembranous bone formation after callus distraction is augmented by increasing axial compressive strain. <i>PLoS ONE</i> , 2018, 13, e0195466.	2.5	9
84	Calcium and vitamin D in bone fracture healing and post-traumatic bone turnover. , 2018, 35, 365-385.		80
85	Biomechanical, structural and biological characterisation of a new silk fibroin scaffold for meniscal repair. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 86, 314-324.	3.1	24
86	Effects of low-magnitude high-frequency vibration on osteoblasts are dependent on estrogen receptor 1± signaling and cytoskeletal remodeling. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 2678-2684.	2.1	22
87	New horizons for osteoanabolic treatment?. <i>Nature Reviews Endocrinology</i> , 2018, 14, 508-509.	9.6	3
88	Influence of Menopause on Inflammatory Cytokines during Murine and Human Bone Fracture Healing. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2070.	4.1	37
89	The mode of interfragmentary movement affects bone formation and revascularization after callus distraction. <i>PLoS ONE</i> , 2018, 13, e0202702.	2.5	32
90	Simulating lateral distraction osteogenesis. <i>PLoS ONE</i> , 2018, 13, e0194500.	2.5	12

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91	ACL double-bundle reconstruction with one tibial tunnel provides equal stability compared to two tibial tunnels. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 1646-1652.	4.2	7
92	Influence of tibial hybrid fixation on graft tension and stability in ACL double-bundle reconstruction. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 981-988.	2.4	2
93	Complement C5a Functions as a Master Switch for the pH Balance in Neutrophils Exerting Fundamental Immunometabolic Effects. <i>Journal of Immunology</i> , 2017, 198, 4846-4854.	0.8	58
94	Spinal fusion without instrumentation – Experimental animal study. <i>Clinical Biomechanics</i> , 2017, 46, 6-14.	1.2	4
95	Osteocyte Regulation of Receptor Activator of NF- $\kappa$ B Ligand/Osteoprotegerin in a Sheep Model of Osteoporosis. <i>American Journal of Pathology</i> , 2017, 187, 1686-1699.	3.8	14
96	The effect of a combined thoracic and soft-tissue trauma on blood flow and tissue formation in fracture healing in rats. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 945-952.	2.4	6
97	Tenomodulin is Required for Tendon Endurance Running and Collagen I Fibril Adaptation to Mechanical Load. <i>EBioMedicine</i> , 2017, 20, 240-254.	6.1	78
98	Sheep model for osteoporosis: The effects of peripheral hormone therapy on centrally induced systemic bone loss in an osteoporotic sheep model. <i>Injury</i> , 2017, 48, 841-848.	1.7	8
99	Friction properties of a new silk fibroin scaffold for meniscal replacement. <i>Tribology International</i> , 2017, 109, 586-592.	5.9	22
100	Dissection of mechanoresponse elements in promoter sites of the mechanoresponsive CYR61 gene. <i>Experimental Cell Research</i> , 2017, 354, 103-111.	2.6	7
101	Mg:Ca ratio as regulating factor for osteoclastic in vitro resorption of struvite biocements. <i>Materials Science and Engineering C</i> , 2017, 73, 111-119.	7.3	16
102	Complement receptors C5aR1 and C5aR2 act differentially during the early immune response after bone fracture but are similarly involved in bone repair. <i>Scientific Reports</i> , 2017, 7, 14061.	3.3	35
103	Chronic psychosocial stress disturbs long-bone growth in adolescent mice. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 1399-1409.	2.4	22
104	Phytic acid as alternative setting retarder enhanced biological performance of dicalcium phosphate cement in vitro. <i>Scientific Reports</i> , 2017, 7, 558.	3.3	22
105	Calcium and vitamin-D deficiency marginally impairs fracture healing but aggravates posttraumatic bone loss in osteoporotic mice. <i>Scientific Reports</i> , 2017, 7, 7223.	3.3	40
106	Spatiotemporally Controlled Release of RhoA-Inhibiting C3 Toxin from a Protein-DNA Hybrid Hydrogel for Targeted Inhibition of Osteoclast Formation and Activity. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700392.	7.6	57
107	Mast Cells Are Critical Regulators of Bone Fracture-Induced Inflammation and Osteoclast Formation and Activity. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 2431-2444.	2.8	64
108	In Vivo Evaluation of Fracture Callus Development During Bone Healing in Mice Using an MRI-compatible Osteosynthesis Device for the Mouse Femur. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	4

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109	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.	3.3	45
110	The inflammatory phase of fracture healing is influenced by oestrogen status in mice. European Journal of Medical Research, 2017, 22, 23.	2.2	39
111	Evaluation of high-resolution In Vivo MRI for longitudinal analysis of endochondral fracture healing in mice. PLoS ONE, 2017, 12, e0174283.	2.5	14
112	Characterization of interfragmentary motion associated with common osteosynthesis devices for rat fracture healing studies. PLoS ONE, 2017, 12, e0176735.	2.5	8
113	Osteoblast-specific overexpression of complement receptor C5aR1 impairs fracture healing. PLoS ONE, 2017, 12, e0179512.	2.5	26
114	Novel systems for the application of isolated tensile, compressive, and shearing stimulation of distraction callus tissue. PLoS ONE, 2017, 12, e0189432.	2.5	14
115	The crucial role of neutrophil granulocytes in bone fracture healing. , 2016, 32, 152-162.		117
116	Primary stability of a shoulderless Zweymüller hip stem: a comparative in vitro micromotion study. Journal of Orthopaedic Surgery and Research, 2016, 11, 73.	2.3	12
117	Inhibition of Midkine Augments Osteoporotic Fracture Healing. PLoS ONE, 2016, 11, e0159278.	2.5	21
118	Mouse Models in Bone Fracture Healing Research. Current Molecular Biology Reports, 2016, 2, 101-111.	1.6	48
119	The influence of the test setup on knee joint kinematics – A meta-analysis of tibial rotation. Journal of Biomechanics, 2016, 49, 2982-2988.	2.1	12
120	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.	2.3	14
121	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.	1.3	28
122	Antagonizing midkine accelerates fracture healing in mice by enhanced bone formation in the fracture callus. British Journal of Pharmacology, 2016, 173, 2237-2249.	5.4	25
123	Mechanobiology of bone remodeling and fracture healing in the aged organism. Innovative Surgical Sciences, 2016, 1, 57-63.	0.7	18
124	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.	2.2	8
125	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.	2.1	35
126	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.	3.0	15



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127	Fracture Healing Is Delayed in Immunodeficient NOD/scid $\beta$ 2 $\mu$ gnull Mice. PLoS ONE, 2016, 11, e0147465	2.5	37
128	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.	2.4	57
129	The molecular fingerprint of lung inflammation after blunt chest trauma. European Journal of Medical Research, 2015, 20, 70.	2.2	37
130	Analgesia via blockade of NGF/TrkA signaling does not influence fracture healing in mice. Journal of Orthopaedic Research, 2015, 33, 1235-1241.	2.3	33
131	Exposure to 100% Oxygen Abolishes the Impairment of Fracture Healing after Thoracic Trauma. PLoS ONE, 2015, 10, e0131194.	2.5	29
132	Blunt Chest Trauma in Mice after Cigarette Smoke-Exposure: Effects of Mechanical Ventilation with 100 % O <sub>2</sub> . PLoS ONE, 2015, 10, e0132810.	2.5	25
133	Role of Complement on Broken Surfaces After Trauma. Advances in Experimental Medicine and Biology, 2015, 865, 43-55.	1.6	28
134	Phosphorylation and turnover of paxillin in focal contacts is controlled by force and defines the dynamic state of the adhesion site. Cytoskeleton, 2015, 72, 101-112.	2.0	13
135	Small changes in bone structure of female $\pm$ 7 nicotinic acetylcholine receptor knockout mice. BMC Musculoskeletal Disorders, 2015, 16, 5.	1.9	15
136	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.	3.0	82
137	Material properties of individual menisci and their attachments obtained through inverse FE-analysis. Journal of Biomechanics, 2015, 48, 1343-1349.	2.1	22
138	Mechanical properties and morphological analysis of the transitional zone between meniscal body and ligamentous meniscal attachments. Journal of Biomechanics, 2015, 48, 1350-1355.	2.1	18
139	Impaired extracellular matrix structure resulting from malnutrition in ovariectomized mature rats. Histochemistry and Cell Biology, 2015, 144, 491-507.	1.7	17
140	Differential Interactive Effects of Cartilage Traumatization and Blood Exposure In Vitro and In Vivo. American Journal of Sports Medicine, 2015, 43, 2822-2832.	4.2	10
141	Bone status of acetylcholinesterase-knockout mice. International Immunopharmacology, 2015, 29, 222-230.	3.8	11
142	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-E251.	2.7	72
143	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.	4.2	53
144	In vivo performance of novel soybean/gelatin-based bioactive and injectable hydroxyapatite foams. Acta Biomaterialia, 2015, 12, 242-249.	8.3	39

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145	Influence of partial meniscectomy on attachment forces, superficial strain and contact mechanics in porcine knee joints. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 74-82.	4.2	15
146	Comparison between Different Methods for Biomechanical Assessment of Ex Vivo Fracture Callus Stiffness in Small Animal Bone Healing Studies. <i>PLoS ONE</i> , 2015, 10, e0119603.	2.5	30
147	Systemic mesenchymal stem cell administration enhances bone formation in fracture repair but not load-induced bone formation. , 2015, 29, 22-34.		25
148	Improved Anchorage of Ti6Al4V Orthopaedic Bone Implants through Oligonucleotide Mediated Immobilization of BMP-2 in Osteoporotic Rats. <i>PLoS ONE</i> , 2014, 9, e86151.	2.5	20
149	Numerical Simulation of Callus Healing for Optimization of Fracture Fixation Stiffness. <i>PLoS ONE</i> , 2014, 9, e101370.	2.5	47
150	Osteoblast-Specific Krm2 Overexpression and Lrp5 Deficiency Have Different Effects on Fracture Healing in Mice. <i>PLoS ONE</i> , 2014, 9, e103250.	2.5	21
151	Prediction of the Time Course of Callus Stiffness as a Function of Mechanical Parameters in Experimental Rat Fracture Healing Studies - A Numerical Study. <i>PLoS ONE</i> , 2014, 9, e115695.	2.5	27
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