

Annemarie BrÃ¼el

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,945
citations

218677

26
h-index

289244

40
g-index

81
all docs

81
docs citations

81
times ranked

2539
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in biomechanical properties, composition of collagen and elastin, and advanced glycation endproducts of the rat aorta in relation to age. <i>Atherosclerosis</i> , 1996, 127, 155-165.	0.8	201
2	Inhibition of cross-links in collagen is associated with reduced stiffness of the aorta in young rats. <i>Atherosclerosis</i> , 1998, 140, 135-145.	0.8	155
3	Changes in 3-dimensional bone structure indices in hypoparathyroid patients treated with PTH(1-84): A randomized controlled study. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 781-788.	2.8	67
4	Effect of voluntary exercise on number and volume of cardiomyocytes and their mitochondria in the mouse left ventricle. <i>Basic Research in Cardiology</i> , 2008, 103, 12-21.	5.9	62
5	Design-based stereological estimation of the total number of cardiac myocytes in histological sections. <i>Basic Research in Cardiology</i> , 2005, 100, 311-319.	5.9	52
6	Osteocyte lacunar properties and cortical microstructure in human iliac crest as a function of age and sex. <i>Bone</i> , 2016, 91, 11-19.	2.9	49
7	Collagen concentration and biomechanical properties of samples from the lower uterine cervix in relation to age and parity in non-pregnant women. <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 82.	3.3	48
8	Calcified Cartilage Islands in Rat Cortical Bone. <i>Calcified Tissue International</i> , 2013, 92, 330-338.	3.1	47
9	Osteocyte lacunar properties in rat cortical bone: Differences between lamellar and central bone. <i>Journal of Structural Biology</i> , 2015, 191, 59-67.	2.8	47
10	Loss of Bone Strength is Dependent on Skeletal Site in Disuse Osteoporosis in Rats. <i>Calcified Tissue International</i> , 2012, 90, 294-306.	3.1	43
11	Growth hormone increases the proliferation of existing cardiac myocytes and the total number of cardiac myocytes in the rat heart. <i>Cardiovascular Research</i> , 2007, 76, 400-408.	3.8	39
12	Immobilization and long-term recovery results in large changes in bone structure and strength but no corresponding alterations of osteocyte lacunar properties. <i>Bone</i> , 2016, 91, 139-147.	2.9	38
13	Synchronous delivery of hydroxyapatite and connective tissue growth factor derived osteoinductive peptide enhanced osteogenesis. <i>Journal of Controlled Release</i> , 2019, 301, 129-139.	9.9	37
14	Dissociation of Bone Resorption and Bone Formation in Adult Mice with a Non-Functional V-ATPase in Osteoclasts Leads to Increased Bone Strength. <i>PLoS ONE</i> , 2011, 6, e27482.	2.5	36
15	Immobilization induced osteopenia is strain specific in mice. <i>Bone Reports</i> , 2015, 2, 59-67.	0.4	36
16	The total length of myocytes and capillaries, and total number of myocyte nuclei in the rat heart are time-dependently increased by growth hormone. <i>Growth Hormone and IGF Research</i> , 2005, 15, 256-264.	1.1	35
17	Additive effect of PTH (1-34) and zoledronate in the prevention of disuse osteopenia in rats. <i>Bone</i> , 2014, 66, 287-295.	2.9	34
18	Lipidoid-siRNA Nanoparticle-Mediated IL-1 β Gene Silencing for Systemic Arthritis Therapy in a Mouse Model. <i>Molecular Therapy</i> , 2019, 27, 1424-1435.	8.2	34

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19	Strontium Is Incorporated into the Fracture Callus but Does Not Influence the Mechanical Strength of Healing Rat Fractures. <i>Calcified Tissue International</i> , 2011, 88, 142-152.	3.1	33
20	The effect of PTH(1-34) on fracture healing during different loading conditions. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 2145-2155.	2.8	33
21	Growth hormone is not able to counteract osteopenia of rat cortical bone induced by Glucocorticoid with protracted effect. <i>Bone</i> , 1995, 17, 543-548.	2.9	32
22	Canalicular Junctions in the Osteocyte Lacuno-Canalicular Network of Cortical Bone. <i>ACS Nano</i> , 2019, 13, 6421-6430.	14.6	32
23	Cervical collagen and biomechanical strength in non-pregnant women with a history of cervical insufficiency. <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 92.	3.3	31
24	A Comparison of Osteoclast-Rich and Osteoclast-Poor Osteopetrosis in Adult Mice Sheds Light on the Role of the Osteoclast in Coupling Bone Resorption and Bone Formation. <i>Calcified Tissue International</i> , 2014, 95, 83-93.	3.1	31
25	PTH (1-34) and growth hormone in prevention of disuse osteopenia and sarcopenia in rats. <i>Bone</i> , 2018, 110, 244-253.	2.9	31
26	Age-related changes of vertical and horizontal lumbar vertebral trabecular 3D bone microstructure is different in women and men. <i>Bone</i> , 2013, 57, 47-55.	2.9	30
27	Growth hormone increases the total number of myocyte nuclei in the left ventricle of adult rats. <i>Growth Hormone and IGF Research</i> , 2002, 12, 106-115.	1.1	27
28	Relationship between articular cartilage damage and subchondral bone properties and meniscal ossification in the Dunkin Hartley guinea pig model of osteoarthritis. <i>Scandinavian Journal of Rheumatology</i> , 2011, 40, 391-399.	1.1	26
29	PTH (1-34), but not strontium ranelate counteract loss of trabecular thickness and bone strength in disuse osteopenic rats. <i>Bone</i> , 2013, 53, 51-58.	2.9	26
30	Age-related changes in vertebral and iliac crest 3D bone microstructure—differences and similarities. <i>Osteoporosis International</i> , 2015, 26, 219-228.	3.1	26
31	A Systematic Review of Animal Models of Disuse-Induced Bone Loss. <i>Calcified Tissue International</i> , 2021, 108, 561-575.	3.1	26
32	The effect of growth hormone on rat myocardial collagen. <i>Growth Hormone and IGF Research</i> , 1999, 9, 123-130.	1.1	25
33	Mice Knocked Out for the Primary Brain Calcification-Associated Gene <i>Slc20a2</i> Show Unimpaired Prenatal Survival but Retarded Growth and Nodules in the Brain that Grow and Calcify Over Time. <i>American Journal of Pathology</i> , 2018, 188, 1865-1881.	3.8	24
34	Intracortical Bone Mechanics Are Related to Pore Morphology and Remodeling in Human Bone. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 2177-2185.	2.8	24
35	A follistatin-based molecule increases muscle and bone mass without affecting the red blood cell count in mice. <i>FASEB Journal</i> , 2019, 33, 6001-6010.	0.5	20
36	Biosynthetic growth hormone changes the collagen and elastin contents and biomechanical properties of the rat aorta. <i>European Journal of Endocrinology</i> , 1991, 125, 49-57.	3.7	18

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37	Growth hormone influences the content and composition of collagen in the aorta from old rats. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 627-635.	4.6	16
38	Growth hormone increases the total number of cardiac myocyte nuclei in young rats but not in old rats. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 1353-1362.	4.6	15
39	Zoledronate prevents lactation induced bone loss and results in additional post-lactation bone mass in mice. <i>Bone</i> , 2016, 87, 27-36.	2.9	15
40	A soluble activin type IIA receptor mitigates the loss of femoral neck bone strength and cancellous bone mass in a mouse model of disuse osteopenia. <i>Bone</i> , 2018, 110, 326-334.	2.9	15
41	Septins are critical regulators of osteoclastic bone resorption. <i>Scientific Reports</i> , 2018, 8, 13016.	3.3	15
42	No Signature of Osteocytic Osteolysis in Cortical Bone from Lactating NMRI Mice. <i>Calcified Tissue International</i> , 2019, 105, 308-315.	3.1	15
43	Sex-Specific Effect of High-Fat Diet on Glycerol Metabolism in Murine Adipose Tissue and Liver. <i>Frontiers in Endocrinology</i> , 2020, 11, 577650.	3.5	15
44	Cardiac structure and function in a mouse model of uraemia without hypertension. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2008, 68, 660-666.	1.2	14
45	No effect of risedronate on articular cartilage damage in the Dunkin Hartley guinea pig model of osteoarthritis. <i>Scandinavian Journal of Rheumatology</i> , 2013, 42, 408-416.	1.1	14
46	Disuse osteopenia induced by botulinum toxin is similar in skeletally mature young and aged female C57BL/6J mice. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 170-179.	2.7	14
47	Teriparatide and Abaloparatide Have a Similar Effect on Bone in Mice. <i>Frontiers in Endocrinology</i> , 2021, 12, 628994.	3.5	14
48	The generation of enlarged eroded pores upon existing intracortical canals is a major contributor to endocortical trabecularization. <i>Bone</i> , 2020, 130, 115127.	2.9	13
49	Opportunities for biomineralization research using multiscale computed X-ray tomography as exemplified by bone imaging. <i>Journal of Structural Biology</i> , 2022, 214, 107822.	2.8	13
50	Vertical Trabeculae are Thinned More Than Horizontal Trabeculae in Skeletal-Unloaded Rats. <i>Calcified Tissue International</i> , 2015, 97, 516-526.	3.1	12
51	Short-term glucocorticoid excess blunts abaloparatide-induced increase in femoral bone mass and strength in mice. <i>Scientific Reports</i> , 2021, 11, 12258.	3.3	11
52	Osteoclasts are not crucial for hematopoietic stem cell maintenance in adult mice. <i>Haematologica</i> , 2013, 98, 1848-1855.	3.5	10
53	The Influence of Hemostatic Agents on Bone Healing After Sternotomy in a Porcine Model. <i>Annals of Thoracic Surgery</i> , 2015, 99, 1005-1011.	1.3	10
54	Systemic Treatment with Strontium Ranelate Does Not Influence the Healing of Femoral Mid-shaft Defects in Rats. <i>Calcified Tissue International</i> , 2016, 98, 206-214.	3.1	10

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55	Organ and tissue level properties are more sensitive to age than osteocyte lacunar characteristics in rat cortical bone. <i>Bone Reports</i> , 2016, 4, 28-34.	0.4	10
56	The effect of oral dabigatran etexilate on bone density, strength, and microstructure in healthy mice. <i>Bone Reports</i> , 2018, 8, 9-17.	0.4	10
57	The Efficacy of PTH and Abaloparatide to Counteract Immobilization-Induced Osteopenia Is in General Similar. <i>Frontiers in Endocrinology</i> , 2020, 11, 588773.	3.5	10
58	Neuronal Cell Adhesion Molecule 1 Regulates Leptin Sensitivity and Bone Mass. <i>Calcified Tissue International</i> , 2018, 102, 329-336.	3.1	9
59	Rodent model of disuse-induced bone loss by hind limb injection with botulinum toxin A. <i>MethodsX</i> , 2020, 7, 101079.	1.6	9
60	Hypobaric hypoxia deteriorates bone mass and strength in mice. <i>Bone</i> , 2022, 154, 116203.	2.9	9
61	Anti-sclerostin antibodies and abaloparatide have additive effects when used as a countermeasure against disuse osteopenia in female rats. <i>Bone</i> , 2022, 160, 116417.	2.9	9
62	Assessment of knee kinematics with dynamic radiostereometry: Validation of an automated model-based method of analysis using bone models. <i>Journal of Orthopaedic Research</i> , 2021, 39, 597-608.	2.3	8
63	Artificial intelligence-assisted identification and quantification of osteoclasts. <i>MethodsX</i> , 2021, 8, 101272.	1.6	8
64	Superoxide dismutase 3 is expressed in bone tissue and required for normal bone homeostasis and mineralization. <i>Free Radical Biology and Medicine</i> , 2021, 164, 399-409.	2.9	8
65	Disuse-induced loss of bone mineral density and bone strength is attenuated by post-lactational bone gain in NMRI mice. <i>Bone</i> , 2020, 131, 115183.	2.9	7
66	Animal models of disuse-induced bone loss: study protocol for a systematic review. <i>Systematic Reviews</i> , 2020, 9, 185.	5.3	7
67	Activin type IIA decoy receptor and intermittent parathyroid hormone in combination overturns the bone loss in disuse-osteopenic mice. <i>Bone</i> , 2021, 142, 115692.	2.9	7
68	Long-Term High-Dose Resveratrol Supplementation Reduces Bone Mass and Fracture Strength in Rats. <i>Calcified Tissue International</i> , 2018, 102, 337-347.	3.1	5
69	Zoledronic acid prevents disuse osteopenia and augments gene expression of osteoclastic differentiation markers in mice. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2018, 18, 165-175.	0.1	5
70	Effect of Acetazolamide and Zoledronate on Simulated High Altitude-Induced Bone Loss. <i>Frontiers in Endocrinology</i> , 2022, 13, 831369.	3.5	5
71	The effect of haemostatic devices on bone healing 6 months postoperatively in sternotomized pigs. <i>European Journal of Cardio-thoracic Surgery</i> , 2015, 48, 850-854.	1.4	4
72	The Effect of Normobaric Intermittent Hypoxia Therapy on Bone in Normal and Disuse Osteopenic Mice. <i>High Altitude Medicine and Biology</i> , 2021, 22, 225-234.	0.9	4

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73	Evaluation of automated radiostereometric image registration in total knee arthroplasty utilizing a syntheticâ€based and a CTâ€based volumetric model. <i>Journal of Orthopaedic Research</i> , 2023, 41, 436-446.	2.3	4
74	MMP-2 in the left rat ventricle is increased by growth hormone. <i>Growth Hormone and IGF Research</i> , 2006, 16, 193-201.	1.1	3
75	The effect of casein glycomacropeptide versus free synthetic amino acids for early treatment of phenylketonuria in a mice model. <i>PLoS ONE</i> , 2022, 17, e0261150.	2.5	3
76	Effect of a formalin-based fixation method on bone mineral content in human <i>ex-vivo</i> specimens. <i>Acta Odontologica Scandinavica</i> , 2021, 79, 212-217.	1.6	2
77	Sparse dose-dependent difference in skeletal effects of short-term glucocorticoid excess in outbred Swiss mice. <i>Endocrine and Metabolic Science</i> , 2021, 5, 100114.	1.6	2
78	STEREOLOGICAL CHALLENGES WHEN WORKING WITH HEART MUSCLE FIBRES. <i>Image Analysis and Stereology</i> , 2010, 29, 35.	0.9	1
79	Drill-Hole Bone Defects in Animal Models of Bone Healing: Protocol for a Systematic Review. <i>JMIR Research Protocols</i> , 2022, 11, e34887.	1.0	0