

Bram C J Van Der Eerden

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

3,621
citations

30
h-index

58
g-index

118
ext. papers

4,269
ext. citations

6.6
avg, IF

5.1
L-index

#	Paper	IF	Citations
99	Systemic and local regulation of the growth plate. <i>Endocrine Reviews</i> , 2003 , 24, 782-801	27.2	406
98	Renal Ca ²⁺ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. <i>Journal of Clinical Investigation</i> , 2003 , 112, 1906-1914	15.9	352
97	Mesenchymal Inflammation Drives Genotoxic Stress in Hematopoietic Stem Cells and Predicts Disease Evolution in Human Pre-leukemia. <i>Cell Stem Cell</i> , 2016 , 19, 613-627	18	199
96	Measurement of vitellogenin, a biomarker for exposure to oestrogenic chemicals, in a wide variety of cyprinid fish. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1996 , 166, 418-426	2.2	151
95	Restricted diet delays accelerated ageing and genomic stress in DNA-repair-deficient mice. <i>Nature</i> , 2016 , 537, 427-431	50.4	149
94	Renal Ca ²⁺ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. <i>Journal of Clinical Investigation</i> , 2003 , 112, 1906-14	15.9	147
93	The epithelial Ca ²⁺ channel TRPV5 is essential for proper osteoclastic bone resorption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 17507-12	11.5	144
92	Ghrelin and unacylated ghrelin stimulate human osteoblast growth via mitogen-activated protein kinase (MAPK)/phosphoinositide 3-kinase (PI3K) pathways in the absence of GHS-R1a. <i>Journal of Endocrinology</i> , 2006 , 188, 37-47	4.7	128
91	Life-Course Genome-wide Association Study Meta-analysis of Total Body BMD and Assessment of Age-Specific Effects. <i>American Journal of Human Genetics</i> , 2018 , 102, 88-102	11	119
90	Expression of Indian hedgehog, parathyroid hormone-related protein, and their receptors in the postnatal growth plate of the rat: evidence for a locally acting growth restraining feedback loop after birth. <i>Journal of Bone and Mineral Research</i> , 2000 , 15, 1045-55	6.3	117
89	Phenotypic dissection of bone mineral density reveals skeletal site specificity and facilitates the identification of novel loci in the genetic regulation of bone mass attainment. <i>PLoS Genetics</i> , 2014 , 10, e1004423	6	107
88	Klotho prevents renal calcium loss. <i>Journal of the American Society of Nephrology: JASN</i> , 2009 , 20, 2371-9	12.7	93
87	Hypervitaminosis D mediates compensatory Ca ²⁺ hyperabsorption in TRPV5 knockout mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2005 , 16, 3188-95	12.7	74
86	Osteocalcin-A Versatile Bone-Derived Hormone. <i>Frontiers in Endocrinology</i> , 2018 , 9, 794	5.7	73
85	1Alpha,25-(OH)2D3 acts in the early phase of osteoblast differentiation to enhance mineralization via accelerated production of mature matrix vesicles. <i>Journal of Cellular Physiology</i> , 2010 , 225, 593-600	7	55
84	Bivariate genome-wide association meta-analysis of pediatric musculoskeletal traits reveals pleiotropic effects at the SREBF1/TOM1L2 locus. <i>Nature Communications</i> , 2017 , 8, 121	17.4	52
83	Sex steroid metabolism in the tibial growth plate of the rat. <i>Endocrinology</i> , 2002 , 143, 4048-55	4.8	50

82	Gender differences in expression of androgen receptor in tibial growth plate and metaphyseal bone of the rat. <i>Bone</i> , 2002 , 30, 891-6	4.7	48
81	Connectivity Map-based discovery of parabendazole reveals targetable human osteogenic pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12711-6	11.5	47
80	Localization and regulation of the growth hormone receptor and growth hormone-binding protein in the rat growth plate. <i>Journal of Bone and Mineral Research</i> , 2002 , 17, 1408-19	6.3	47
79	Expression of estrogen receptor alpha and beta in the epiphyseal plate of the rat. <i>Bone</i> , 2002 , 30, 478-85	4.7	40
78	Expression of estrogen receptors and enzymes involved in sex steroid metabolism in the rat tibia during sexual maturation. <i>Journal of Endocrinology</i> , 2004 , 180, 457-67	4.7	39
77	Ghrelin and bone. <i>BioFactors</i> , 2014 , 40, 41-8	6.1	38
76	Murine TNF(DeltaARE) Crohn's disease model displays diminished expression of intestinal Ca ²⁺ transporters. <i>Inflammatory Bowel Diseases</i> , 2008 , 14, 803-11	4.5	35
75	An age-dependent interaction with leptin unmasks ghrelin's bone-protective effects. <i>Endocrinology</i> , 2012 , 153, 3593-602	4.8	34
74	The transient receptor potential channel TRPV6 is dynamically expressed in bone cells but is not crucial for bone mineralization in mice. <i>Journal of Cellular Physiology</i> , 2012 , 227, 1951-9	7	33
73	Unraveling the human bone microenvironment beyond the classical extracellular matrix proteins: a human bone protein library. <i>Journal of Proteome Research</i> , 2011 , 10, 4725-33	5.6	33
72	Basic techniques in human mesenchymal stem cell cultures: differentiation into osteogenic and adipogenic lineages, genetic perturbations, and phenotypic analyses. <i>Current Protocols in Stem Cell Biology</i> , 2011 , Chapter 1, Unit1H.3	2.8	33
71	Understanding Age-Induced Cortical Porosity in Women: The Accumulation and Coalescence of Eroded Cavities Upon Existing Intracortical Canals Is the Main Contributor. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 606-620	6.3	32
70	Serum Phosphate Is Associated With Fracture Risk: The Rotterdam Study and MrOS. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1182-1193	6.3	31
69	1 α ,25-dihydroxyvitamin D3 stimulates activin A production to fine-tune osteoblast-induced mineralization. <i>Journal of Cellular Physiology</i> , 2013 , 228, 2167-74	7	30
68	TRPV4 deficiency causes sexual dimorphism in bone metabolism and osteoporotic fracture risk. <i>Bone</i> , 2013 , 57, 443-54	4.7	28
67	Evidence for genomic and nongenomic actions of estrogen in growth plate regulation in female and male rats at the onset of sexual maturation. <i>Journal of Endocrinology</i> , 2002 , 175, 277-88	4.7	28
66	MicroRNAs in the skeleton: cell-restricted or potent intercellular communicators?. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 561, 46-55	4.1	25
65	Ghrelin and bone. <i>Vitamins and Hormones</i> , 2008 , 77, 239-58	2.5	25

64	Characterization of Endothelial Cells Associated with Hematopoietic Niche Formation in Humans Identifies IL-33 As an Anabolic Factor. <i>Cell Reports</i> , 2018 , 22, 666-678	10.6	24
63	Reporting Guidelines, Review of Methodological Standards, and Challenges Toward Harmonization in Bone Marrow Adiposity Research. Report of the Methodologies Working Group of the International Bone Marrow Adiposity Society. <i>Frontiers in Endocrinology</i> , 2020 , 11, 65	5.7	21
62	IFN γ impairs extracellular matrix formation leading to inhibition of mineralization by effects in the early stage of human osteoblast differentiation. <i>Journal of Cellular Physiology</i> , 2012 , 227, 2668-76	7	21
61	Bone resorption inhibitor alendronate normalizes the reduced bone thickness of TRPV5(-/-) mice. <i>Journal of Bone and Mineral Research</i> , 2008 , 23, 1815-24	6.3	21
60	The T-13910C polymorphism in the lactase phlorizin hydrolase gene is associated with differences in serum calcium levels and calcium intake. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1980-7	6.3	19
59	Immunotherapy Added to Antibiotic Treatment Reduces Relapse of Disease in a Mouse Model of Tuberculosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017 , 56, 233-241	5.7	18
58	Thrombin receptor deficiency leads to a high bone mass phenotype by decreasing the RANKL/OPG ratio. <i>Bone</i> , 2015 , 72, 14-22	4.7	17
57	Hydroxychloroquine affects bone resorption both in vitro and in vivo. <i>Journal of Cellular Physiology</i> , 2018 , 233, 1424-1433	7	17
56	Characterization of vitamin D-deficient klotho(-/-) mice: do increased levels of serum 1,25(OH) $_2$ D $_3$ cause disturbed calcium and phosphate homeostasis in klotho(-/-) mice?. <i>Nephrology Dialysis Transplantation</i> , 2012 , 27, 4061-8	4.3	17
55	Using the Connectivity Map to discover compounds influencing human osteoblast differentiation. <i>Journal of Cellular Physiology</i> , 2018 , 233, 4895-4906	7	17
54	Comparative proteomic profiling of human osteoblast-derived extracellular matrices identifies proteins involved in mesenchymal stromal cell osteogenic differentiation and mineralization. <i>Journal of Cellular Physiology</i> , 2018 , 233, 387-395	7	16
53	Evidence of vitamin D and interferon- γ cross-talk in human osteoblasts with 1,25-dihydroxyvitamin D $_3$ being dominant over interferon- γ in stimulating mineralization. <i>Journal of Cellular Physiology</i> , 2012 , 227, 3258-66	7	16
52	Osteoblasts secrete miRNA-containing extracellular vesicles that enhance expansion of human umbilical cord blood cells. <i>Scientific Reports</i> , 2016 , 6, 32034	4.9	16
51	Human mesenchymal stromal cells in adhesion to cell-derived extracellular matrix and titanium: Comparative kinome profile analysis. <i>Journal of Cellular Physiology</i> , 2019 , 234, 2984-2996	7	15
50	1,25-dihydroxyvitamin D $_3$ and rosiglitazone synergistically enhance osteoblast-mediated mineralization. <i>Gene</i> , 2013 , 512, 438-43	3.8	14
49	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. <i>FASEB Journal</i> , 2006 ,	0.9	14
48	Human Osteoblast-Derived Extracellular Matrix with High Homology to Bone Proteome Is Osteopromotive. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1377-1389	3.9	13
47	Genetic manipulation of the ghrelin signaling system in male mice reveals bone compartment specificity of acylated and unacylated ghrelin in the regulation of bone remodeling. <i>Endocrinology</i> , 2014 , 155, 4287-95	4.8	13

46	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. <i>FASEB Journal</i> , 2006 , 20, 2171-3	0.9	13
45	Age-related skeletal dynamics and decrease in bone strength in DNA repair deficient male trichothiodystrophy mice. <i>PLoS ONE</i> , 2012 , 7, e35246	3.7	13
44	Maternal Transient Receptor Potential Vanilloid 6 (Trpv6) Is Involved In Offspring Bone Development. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 699-710	6.3	13
43	Functionality-packed additively manufactured porous titanium implants. <i>Materials Today Bio</i> , 2020 , 7, 100060	9.9	12
42	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	4.7	12
41	Submicron Patterns-on-a-Chip: Fabrication of a Microfluidic Device Incorporating 3D Printed Surface Ornaments. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6127-6136	5.5	10
40	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	0.9	10
39	Adverse Effects of Diabetes Mellitus on the Skeleton of Aging Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016 , 71, 290-9	6.4	9
38	Understanding age-induced cortical porosity in women: Is a negative BMU balance in quiescent osteons a major contributor?. <i>Bone</i> , 2018 , 117, 70-82	4.7	9
37	Follistatin Effects in Migration, Vascularization, and Osteogenesis and Bone Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 38	5.8	8
36	Gestational jet lag predisposes to later-life skeletal and cardiac disease. <i>Chronobiology International</i> , 2019 , 36, 657-671	3.6	8
35	A human vitamin D receptor mutation causes rickets and impaired Th1/Th17 responses. <i>Bone</i> , 2014 , 69, 6-11	4.7	8
34	Genomic and non-genomic actions of sex steroids in the growth plate. <i>Pediatric Nephrology</i> , 2005 , 20, 323-9	3.2	8
33	Effects of Chronic Estrogen Administration in the Ventromedial Nucleus of the Hypothalamus (VMH) on Fat and Bone Metabolism in Ovariectomized Rats. <i>Endocrinology</i> , 2016 , 157, 4930-4942	4.8	8
32	Novel In Situ Gelling Hydrogels Loaded with Recombinant Collagen Peptide Microspheres as a Slow-Release System Induce Ectopic Bone Formation. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800507 ^{10.1}		7
31	Upstream Regulators of Fibroblast Growth Factor 23. <i>Frontiers in Endocrinology</i> , 2021 , 12, 588096	5.7	6
30	Hydroxychloroquine decreases human MSC-derived osteoblast differentiation and mineralization in vitro. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 873-882	5.6	5
29	Recellularization of auricular cartilage via elastase-generated channels. <i>Biofabrication</i> , 2019 , 11, 035012 ^{10.5}		5

28	Identification of osteolineage cell-derived extracellular vesicle cargo implicated in hematopoietic support. <i>FASEB Journal</i> , 2020 , 34, 5435-5452	0.9	5
27	The vitamin D analog ZK191784 normalizes decreased bone matrix mineralization in mice lacking the calcium channel TRPV5. <i>Journal of Cellular Physiology</i> , 2013 , 228, 402-7	7	5
26	Osteoclastogenic capacity of peripheral blood mononuclear cells is not different between women with and without osteoporosis. <i>Bone</i> , 2017 , 95, 108-114	4.7	5
25	Dietary Advanced Glycation End-Products (dAGEs) Intake and Bone Health: A Cross-Sectional Analysis in the Rotterdam Study. <i>Nutrients</i> , 2020 , 12,	6.7	5
24	Age-dependent sex differences in calcium and phosphate homeostasis. <i>Endocrine Connections</i> , 2021 , 10, 273-282	3.5	5
23	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	4.7	5
22	Extracellular Vesicles Derived From Adult and Fetal Bone Marrow Mesenchymal Stromal Cells Differentially Promote Expansion of Hematopoietic Stem and Progenitor Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 640419	5.8	5
21	Zika virus infection perturbs osteoblast function. <i>Scientific Reports</i> , 2018 , 8, 16975	4.9	5
20	Skin Autofluorescence, a Noninvasive Biomarker for Advanced Glycation End-Products, Is Associated With Prevalent Vertebral and Major Osteoporotic Fractures: The Rotterdam Study. <i>Journal of Bone and Mineral Research</i> , 2020 , 35, 1904-1913	6.3	4
19	Effect of x-irradiation on growth and the expression of parathyroid hormone-related peptide and Indian hedgehog in the tibial growth plate of the rat. <i>Hormone Research in Paediatrics</i> , 2003 , 59, 35-41	3.3	4
18	Identification of Chloride Intracellular Channel Protein 3 as a Novel Gene Affecting Human Bone Formation. <i>JBMR Plus</i> , 2017 , 1, 16-26	3.9	3
17	Two-day-treatment of Activin-A leads to transient change in SV-HFO osteoblast gene expression and reduction in matrix mineralization. <i>Journal of Cellular Physiology</i> , 2020 , 235, 4865-4877	7	3
16	Cyclin M2 (CNNM2) knockout mice show mild hypomagnesaemia and developmental defects. <i>Scientific Reports</i> , 2021 , 11, 8217	4.9	3
15	Inorganic Agents for Enhanced Angiogenesis of Orthopedic Biomaterials. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002254	10.1	3
14	Novel Compound Heterozygous Mutations in the CYP27B1 Gene Lead to Pseudovitamin D-Deficient Rickets. <i>Calcified Tissue International</i> , 2016 , 99, 326-31	3.9	3
13	Vitamin D Regulation of Osteoblast Function 2018 , 295-308		2
12	Fibronectin in Fracture Healing: Biological Mechanisms and Regenerative Avenues. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 663357	5.8	2
11	Guidelines for Biobanking of Bone Marrow Adipose Tissue and Related Cell Types: Report of the Biobanking Working Group of the International Bone Marrow Adiposity Society. <i>Frontiers in Endocrinology</i> , 2021 , 12, 744527	5.7	2

10	Hydrogels derived from decellularized liver tissue support the growth and differentiation of cholangiocyte organoids.. <i>Biomaterials</i> , 2022 , 284, 121473	15.6	2
9	Mucin 1 (Muc1) Deficiency in Female Mice Leads to Temporal Skeletal Changes During Aging. <i>JBMR Plus</i> , 2018 , 2, 341-350	3.9	1
8	Perspective of the GEMSTONE Consortium on Current and Future Approaches to Functional Validation for Skeletal Genetic Disease Using Cellular, Molecular and Animal-Modeling Techniques.. <i>Frontiers in Endocrinology</i> , 2021 , 12, 731217	5.7	1
7	Identification of microRNAs in human plasma. <i>Methods in Molecular Biology</i> , 2015 , 1226, 71-85	1.4	1
6	A multi-omics approach expands the mutational spectrum of MAP2K1-related melorheostosis. <i>Bone</i> , 2020 , 137, 115406	4.7	1
5	Lifelong challenge of calcium homeostasis in male mice lacking TRPV5 leads to changes in bone and calcium metabolism. <i>Oncotarget</i> , 2016 , 7, 24928-41	3.3	1
4	IL-23 receptor deficiency results in lower bone mass via indirect regulation of bone formation. <i>Scientific Reports</i> , 2021 , 11, 10244	4.9	0
3	Inflammatory Niche Signalling Drives Genotoxic Stress in Hematopoietic Stem Cells and Predicts Leukemic Evolution in Human Leukemia Predisposition Syndromes. <i>Blood</i> , 2016 , 128, 428-428	2.2	
2	Genetic Disorders Of Vitamin D Synthesis and Action 2018 , 735-759		
1	Osteoblast biology: developmental origin and interactive nature of osteoblasts 2021 , 111-134		