

# Bram C J Van Der Eerden

## List of Publications by Year in descending order

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105  
papers

4,982  
citations

136740

32  
h-index

102304

66  
g-index

118  
all docs

118  
docs citations

118  
times ranked

7394  
citing authors

#	ARTICLE	IF	CITATIONS
1	Systemic and Local Regulation of the Growth Plate. <i>Endocrine Reviews</i> , 2003, 24, 782-801.	8.9	468
2	Renal Ca <sup>2+</sup> wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. <i>Journal of Clinical Investigation</i> , 2003, 112, 1906-1914.	3.9	406
3	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.	5.2	277
4	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.	2.6	252
5	Restricted diet delays accelerated ageing and genomic stress in DNA-repair-deficient mice. <i>Nature</i> , 2016, 537, 427-431.	13.7	228
6	Renal Ca <sup>2+</sup> wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. <i>Journal of Clinical Investigation</i> , 2003, 112, 1906-1914.	3.9	202
7	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.	0.7	189
8	The epithelial Ca <sup>2+</sup> 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, 17507-17512.	3.3	164
9	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.	1.2	144
10	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, 1045-1055.	3.1	135
11	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.	1.5	134
12	Osteocalcin – A Versatile Bone-Derived Hormone. <i>Frontiers in Endocrinology</i> , 2018, 9, 794.	1.5	130
13	Klotho Prevents Renal Calcium Loss. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 2371-2379.	3.0	105
14	Hypervitaminosis D Mediates Compensatory Ca <sup>2+</sup> Hyperabsorption in TRPV5 Knockout Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 3188-3195.	3.0	85
15	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.	5.8	82
16	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, 12711-12716.	3.3	81
17	1,25(OH) <sub>2</sub> D <sub>3</sub> 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.	2.0	69
18	Gender differences in expression of androgen receptor in tibial growth plate and metaphyseal bone of the rat. <i>Bone</i> , 2002, 30, 891-896.	1.4	60

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19	Sex Steroid Metabolism in the Tibial Growth Plate of the Rat. <i>Endocrinology</i> , 2002, 143, 4048-4055.	1.4	57
20	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, 1408-1419.	3.1	56
21	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.	3.1	54
22	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.	1.5	53
23	Expression of estrogen receptor $\hat{1}\pm$ and $\hat{1}^2$ in the epiphyseal plate of the rat. <i>Bone</i> , 2002, 30, 478-485.	1.4	48
24	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, 457-467.	1.2	44
25	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, 17, Unit1H.3.	3.0	43
26	Ghrelin and bone. <i>BioFactors</i> , 2014, 40, 41-48.	2.6	43
27	Murine TNF $\hat{1}$ ARE Crohn $\hat{1}$ s disease model displays diminished expression of intestinal Ca $^{2+}$ transporters. <i>Inflammatory Bowel Diseases</i> , 2008, 14, 803-811.	0.9	41
28	Serum Phosphate Is Associated With Fracture Risk: The Rotterdam Study and MrOS. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1182-1193.	3.1	40
29	Unraveling the Human Bone Microenvironment beyond the Classical Extracellular Matrix Proteins: A Human Bone Protein Library. <i>Journal of Proteome Research</i> , 2011, 10, 4725-4733.	1.8	39
30	An Age-Dependent Interaction with Leptin Unmasks Ghrelin's Bone-Protective Effects. <i>Endocrinology</i> , 2012, 153, 3593-3602.	1.4	39
31	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.	2.9	38
32	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, 1951-1959.	2.0	36
33	$\hat{1}\pm,25\hat{1}$ dihydroxyvitamin D $^{3</sub>3</sub>}$ stimulates activin A production to fine $\hat{1}$ tune osteoblast $\hat{1}$ induced mineralization. <i>Journal of Cellular Physiology</i> , 2013, 228, 2167-2174.	2.0	35
34	Inorganic Agents for Enhanced Angiogenesis of Orthopedic Biomaterials. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002254.	3.9	35
35	Using the Connectivity Map to discover compounds influencing human osteoblast differentiation. <i>Journal of Cellular Physiology</i> , 2018, 233, 4895-4906.	2.0	34
36	TRPV4 deficiency causes sexual dimorphism in bone metabolism and osteoporotic fracture risk. <i>Bone</i> , 2013, 57, 443-454.	1.4	33

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37	Hydrogels derived from decellularized liver tissue support the growth and differentiation of cholangiocyte organoids. <i>Biomaterials</i> , 2022, 284, 121473.	5.7	33
38	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, 277-288.	1.2	32
39	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.	3.1	28
40	Ghrelin and Bone. <i>Vitamins and Hormones</i> , 2007, 77, 239-258.	0.7	27
41	IFN $\gamma$ 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, 2668-2676.	2.0	27
42	Osteoblasts secrete miRNA-containing extracellular vesicles that enhance expansion of human umbilical cord blood cells. <i>Scientific Reports</i> , 2016, 6, 32034.	1.6	27
43	Functionality-packed additively manufactured porous titanium implants. <i>Materials Today Bio</i> , 2020, 7, 100060.	2.6	27
44	Bone Resorption Inhibitor Alendronate Normalizes the Reduced Bone Thickness of TRPV5 $\Delta$ Mice. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1815-1824.	3.1	25
45	MicroRNAs in the skeleton: Cell-restricted or potent intercellular communicators?. <i>Archives of Biochemistry and Biophysics</i> , 2014, 561, 46-55.	1.4	25
46	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.	2.0	23
47	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.	2.0	23
48	Thrombin receptor deficiency leads to a high bone mass phenotype by decreasing the RANKL/OPG ratio. <i>Bone</i> , 2015, 72, 14-22.	1.4	22
49	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.	1.4	22
50	Upstream Regulators of Fibroblast Growth Factor 23. <i>Frontiers in Endocrinology</i> , 2021, 12, 588096.	1.5	22
51	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, 1980-1987.	3.1	21
52	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.	0.2	20
53	Characterization of vitamin D-deficient <i>klotho</i> $^{-/-}$ mice: do increased levels of serum 1,25(OH) $_2$ D $_3$ cause disturbed calcium and phosphate homeostasis in <i>klotho</i> $^{-/-}$ mice?. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 4061-4068.	0.4	19
54	Hydroxychloroquine affects bone resorption both in vitro and in vivo. <i>Journal of Cellular Physiology</i> , 2018, 233, 1424-1433.	2.0	19

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55	Age-dependent sex differences in calcium and phosphate homeostasis. <i>Endocrine Connections</i> , 2021, 10, 273-282.	0.8	19
56	Evidence of vitamin D and interferon- $\gamma$ cross-talk in human osteoblasts with 1,25-dihydroxyvitamin D <sub>3</sub> being dominant over interferon- $\gamma$ in stimulating mineralization. <i>Journal of Cellular Physiology</i> , 2012, 227, 3258-3266.	2.0	18
57	Human Osteoblast-Derived Extracellular Matrix with High Homology to Bone Proteome Is Osteopromotive. <i>Tissue Engineering - Part A</i> , 2018, 24, 1377-1389.	1.6	18
58	Gestational jet lag predisposes to later-life skeletal and cardiac disease. <i>Chronobiology International</i> , 2019, 36, 657-671.	0.9	18
59	Cyclin M2 (CNNM2) knockout mice show mild hypomagnesaemia and developmental defects. <i>Scientific Reports</i> , 2021, 11, 8217.	1.6	18
60	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.	2.6	17
61	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.	3.1	17
62	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, 4287-4295.	1.4	16
63	Follistatin Effects in Migration, Vascularization, and Osteogenesis in vitro and Bone Repair in vivo. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 38.	2.0	16
64	Fibronectin in Fracture Healing: Biological Mechanisms and Regenerative Avenues. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 663357.	2.0	16
65	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. <i>FASEB Journal</i> , 2006, 20, 2171-2173.	0.2	15
66	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. <i>FASEB Journal</i> , 2006, , .	0.2	15
67	1,25-Dihydroxyvitamin D <sub>3</sub> and rosiglitazone synergistically enhance osteoblast-mediated mineralization. <i>Gene</i> , 2013, 512, 438-443.	1.0	15
68	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.	1.4	15
69	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.	1.4	15
70	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.	3.9	15
71	Age-Related Skeletal Dynamics and Decrease in Bone Strength in DNA Repair Deficient Male Trichothiodystrophy Mice. <i>PLoS ONE</i> , 2012, 7, e35246.	1.1	15
72	Identification of Chloride Intracellular Channel Protein 3 as a Novel Gene Affecting Human Bone Formation. <i>JBMR Plus</i> , 2017, 1, 16-26.	1.3	14

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73	Bone, a dynamic and integrating tissue. <i>Archives of Biochemistry and Biophysics</i> , 2014, 561, 1-2.	1.4	13
74	Dietary Advanced Glycation End-Products (dAGEs) Intake and Bone Health: A Cross-Sectional Analysis in the Rotterdam Study. <i>Nutrients</i> , 2020, 12, 2377.	1.7	13
75	A human vitamin D receptor mutation causes rickets and impaired Th1/Th17 responses. <i>Bone</i> , 2014, 69, 6-11.	1.4	12
76	Zika virus infection perturbs osteoblast function. <i>Scientific Reports</i> , 2018, 8, 16975.	1.6	12
77	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.	1.5	12
78	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.	1.4	11
79	Hydroxychloroquine decreases human MSC-derived osteoblast differentiation and mineralization <i>in vitro</i> . <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 873-882.	1.6	11
80	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.	1.5	11
81	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, 290-299.	1.7	10
82	Identification of osteolineage cell-derived extracellular vesicle cargo implicated in hematopoietic support. <i>FASEB Journal</i> , 2020, 34, 5435-5452.	0.2	10
83	Extracellular Vesicles Derived From Adult and Fetal Bone Marrow Mesenchymal Stromal Cells Differentially Promote <i>ex vivo</i> Expansion of Hematopoietic Stem and Progenitor Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 640419.	2.0	10
84	Recellularization of auricular cartilage via elastase-generated channels. <i>Biofabrication</i> , 2019, 11, 035012.	3.7	9
85	Genomic and non-genomic actions of sex steroids in the growth plate. <i>Pediatric Nephrology</i> , 2005, 20, 323-329.	0.9	8
86	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.	0.8	7
87	Novel Compound Heterozygous Mutations in the CYP27B1 Gene Lead to Pseudovitamin D-Deficient Rickets. <i>Calcified Tissue International</i> , 2016, 99, 326-331.	1.5	7
88	Osteoclastogenic capacity of peripheral blood mononuclear cells is not different between women with and without osteoporosis. <i>Bone</i> , 2017, 95, 108-114.	1.4	7
89	Mucin 1 (Muc1) Deficiency in Female Mice Leads to Temporal Skeletal Changes During Aging. <i>JBMR Plus</i> , 2018, 2, 341-350.	1.3	7
90	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.	1.4	7

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91	A multi-omics approach expands the mutational spectrum of MAP2K1-related melorheostosis. <i>Bone</i> , 2020, 137, 115406.	1.4	6
92	Lifelong challenge of calcium homeostasis in male mice lacking TRPV5 leads to changes in bone and calcium metabolism. <i>Oncotarget</i> , 2016, 7, 24928-24941.	0.8	6
93	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, 402-407.	2.0	5
94	Two-day treatment of Activin A leads to transient change in SVF osteoblast gene expression and reduction in matrix mineralization. <i>Journal of Cellular Physiology</i> , 2020, 235, 4865-4877.	2.0	4
95	IL-23 receptor deficiency results in lower bone mass via indirect regulation of bone formation. <i>Scientific Reports</i> , 2021, 11, 10244.	1.6	4
96	Vitamin D Regulation of Osteoblast Function. , 2018, , 295-308.		3
97	FAM111A is dispensable for electrolyte homeostasis in mice. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
98	Zika virus infects human osteoclasts and blocks differentiation and bone resorption. <i>Emerging Microbes and Infections</i> , 2022, 11, 1621-1634.	3.0	2
99	Genetic Disorders Of Vitamin D Synthesis and Action. , 2018, , 735-759.		1
100	Osteoblast biology: developmental origin and interactive nature of osteoblasts. , 2021, , 111-134.		1
101	Identification of microRNAs in Human Plasma. <i>Methods in Molecular Biology</i> , 2015, 1226, 71-85.	0.4	1
102	IL-23 receptor signalling is critical in normal bone remodelling and influences osteoclast activity in vitro and t cell-driven inflammatory bone damage in vivo. , 2017, , .		0
103	Development of an observational registry for genetic hypophosphatemia and acquired renal phosphate wasting in The Netherlands: ORPHOS-NED. <i>Bone Reports</i> , 2021, 14, 101003.	0.2	0
104	Accelerated menopausal changes as disease model for development of osteoarthritis, focum. <i>Osteoarthritis and Cartilage</i> , 2021, 29, S137-S138.	0.6	0
105	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.	0.6	0