

# Wouter Beertsen

## List of Publications by Citations

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114  
papers

5,514  
citations

43  
h-index

71  
g-index

115  
ext. papers

5,806  
ext. citations

5.4  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
114	The periodontal ligament: a unique, multifunctional connective tissue. <i>Periodontology</i> 2000, <b>1997</b> , 13, 20-40	12.9	355
113	Phagocytosis and intracellular digestion of collagen, its role in turnover and remodelling. <i>The Histochemical Journal</i> , <b>1996</b> , 28, 229-45		282
112	The bone lining cell: its role in cleaning Howship's lacunae and initiating bone formation. <i>Journal of Bone and Mineral Research</i> , <b>2002</b> , 17, 77-90	6.3	250
111	Degradation of collagen in the bone-resorbing compartment underlying the osteoclast involves both cysteine-proteinases and matrix metalloproteinases. <i>Journal of Cellular Physiology</i> , <b>1992</b> , 150, 221-31	7.1	229
110	Enamel matrix-derived protein stimulates attachment of periodontal ligament fibroblasts and enhances alkaline phosphatase activity and transforming growth factor beta1 release of periodontal ligament and gingival fibroblasts. <i>Journal of Periodontology</i> , <b>2000</b> , 71, 31-43	4.6	202
109	LAMP-2: a control step for phagosome and autophagosome maturation. <i>Autophagy</i> , <b>2008</b> , 4, 510-2	10.2	147
108	Functional heterogeneity of osteoclasts: matrix metalloproteinases participate in osteoclastic resorption of calvarial bone but not in resorption of long bone. <i>FASEB Journal</i> , <b>1999</b> , 13, 1219-30	0.9	145
107	Fine structure of fibroblasts in the periodontal ligament of the rat incisor and their possible role in tooth eruption. <i>Archives of Oral Biology</i> , <b>1974</b> , 19, 1087-98	2.8	136
106	Osteoclastic bone degradation and the role of different cysteine proteinases and matrix metalloproteinases: differences between calvaria and long bone. <i>Journal of Bone and Mineral Research</i> , <b>2006</b> , 21, 1399-408	6.3	130
105	Root development in mice lacking functional tissue non-specific alkaline phosphatase gene: inhibition of acellular cementum formation. <i>Journal of Dental Research</i> , <b>1999</b> , 78, 1221-9	8.1	116
104	Phagocytosis of bone collagen by osteoclasts in two cases of pycnodysostosis. <i>Calcified Tissue International</i> , <b>1985</b> , 37, 25-31	3.9	111
103	Alkaline phosphatase activity in the periodontal ligament and gingiva of the rat molar: its relation to cementum formation. <i>Journal of Dental Research</i> , <b>1995</b> , 74, 1374-81	8.1	103
102	Gelatinase A (MMP-2) and cysteine proteinases are essential for the degradation of collagen in soft connective tissue. <i>Matrix Biology</i> , <b>1998</b> , 17, 35-46	11.4	98
101	Alpha11 beta1 integrin-dependent regulation of periodontal ligament function in the erupting mouse incisor. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 4306-16	4.8	98
100	Cementum and dentin in hypophosphatasia. <i>Journal of Dental Research</i> , <b>2005</b> , 84, 1021-5	8.1	97
99	Cysteine proteinases and matrix metalloproteinases play distinct roles in the subosteoclastic resorption zone. <i>Journal of Bone and Mineral Research</i> , <b>1998</b> , 13, 1420-30	6.3	96
98	Alkaline phosphatase induces the mineralization of sheets of collagen implanted subcutaneously in the rat. <i>Journal of Clinical Investigation</i> , <b>1992</b> , 89, 1974-80	15.9	93

97	Effects of the proteinase inhibitors leupeptin and E-64 on osteoclastic bone resorption. <i>Calcified Tissue International</i> , <b>1988</b> , 43, 172-8	3.9	88
96	The site of remodeling of collagen in the periodontal ligament of the mouse incisor. <i>The Anatomical Record</i> , <b>1977</b> , 189, 479-97		88
95	Role of polymorphonuclear leukocyte-derived serine proteinases in defense against <i>Actinobacillus actinomycetemcomitans</i> . <i>Infection and Immunity</i> , <b>2006</b> , 74, 5284-91	3.7	86
94	Cathepsin K deficiency in pycnodysostosis results in accumulation of non-digested phagocytosed collagen in fibroblasts. <i>Calcified Tissue International</i> , <b>2003</b> , 73, 380-6	3.9	84
93	The digestion of phagocytosed collagen is inhibited by the proteinase inhibitors leupeptin and E-64. <i>Collagen and Related Research</i> , <b>1985</b> , 5, 315-36		80
92	Effect of CD44 deficiency on in vitro and in vivo osteoclast formation. <i>Journal of Cellular Biochemistry</i> , <b>2005</b> , 94, 954-66	4.7	79
91	Migration of fibroblasts in the periodontal ligament of the mouse incisor as revealed by autoradiography. <i>Archives of Oral Biology</i> , <b>1975</b> , 20, 659-66	2.8	77
90	Gingival fibroblasts are better at inhibiting osteoclast formation than periodontal ligament fibroblasts. <i>Journal of Cellular Biochemistry</i> , <b>2006</b> , 98, 370-82	4.7	69
89	Effects of 1-hydroxyethylidene-1, 1-bisphosphonate (HEBP) on the formation of dentin and the periodontal attachment apparatus in the mouse. <i>American Journal of Anatomy</i> , <b>1985</b> , 174, 83-103		68
88	Loss-of-function mutations in cathepsin C in two families with Papillon-Lefèvre syndrome are associated with deficiency of serine proteinases in PMNs. <i>Human Mutation</i> , <b>2004</b> , 23, 524	4.7	62
87	Impaired phagosomal maturation in neutrophils leads to periodontitis in lysosomal-associated membrane protein-2 knockout mice. <i>Journal of Immunology</i> , <b>2008</b> , 180, 475-82	5.3	60
86	Involvement of matrix metalloproteinases in the onset of dentin mineralization. <i>European Journal of Oral Sciences</i> , <b>2004</b> , 112, 171-6	2.3	57
85	Alkaline phosphatase induces the deposition of calcified layers in relation to dentin: an in vitro study to mimic the formation of afibrillar acellular cementum. <i>Journal of Dental Research</i> , <b>1991</b> , 70, 176-81	8.1	57
84	The site of collagen resorption in the periodontal ligament of the rodent molar. <i>The Anatomical Record</i> , <b>1978</b> , 192, 305-17		56
83	A quantitative enzyme histochemical analysis of the distribution of alkaline phosphatase activity in the periodontal ligament of the rat incisor. <i>Journal of Dental Research</i> , <b>1993</b> , 72, 1344-50	8.1	51
82	Metalloproteinases are not involved in the phagocytosis of collagen fibrils by fibroblasts. <i>Matrix Biology</i> , <b>1989</b> , 9, 266-76		50
81	Formation of acellular root cementum in relation to dental and non-dental hard tissues in the rat. <i>Journal of Dental Research</i> , <b>1990</b> , 69, 1669-73	8.1	50
80	Cytokines modulate routes of collagen breakdown. Review with special emphasis on mechanisms of collagen degradation in the periodontium and the burst hypothesis of periodontal disease progression. <i>Journal of Clinical Periodontology</i> , <b>1997</b> , 24, 297-305	7.7	49

79	Participation of intracellular cysteine proteinases, in particular cathepsin B, in degradation of collagen in periosteal tissue explants. <i>Matrix Biology</i> , <b>1998</b> , 16, 575-84	11.4	49
78	(Pre-)osteoclasts induce retraction of osteoblasts before their fusion to osteoclasts. <i>Journal of Bone and Mineral Research</i> , <b>2004</b> , 19, 1722-31	6.3	49
77	Collagen breakdown in soft connective tissue explants is associated with the level of active gelatinase A (MMP-2) but not with collagenase. <i>Matrix Biology</i> , <b>1999</b> , 18, 373-80	11.4	49
76	Calvarial osteoclasts express a higher level of tartrate-resistant acid phosphatase than long bone osteoclasts and activation does not depend on cathepsin K or L activity. <i>Calcified Tissue International</i> , <b>2006</b> , 79, 245-54	3.9	48
75	Expression of integrins by human periodontal ligament and gingival fibroblasts and their involvement in fibroblast adhesion to enamel matrix-derived proteins. <i>Journal of Periodontal Research</i> , <b>2002</b> , 37, 317-23	4.3	47
74	Orientation of mineral crystallites and mineral density during skeletal development in mice deficient in tissue nonspecific alkaline phosphatase. <i>Journal of Bone and Mineral Research</i> , <b>2003</b> , 18, 117-23	6.3	46
73	The prevalence and distribution of rests of Malassez in the mouse molar and their possible role in repair and maintenance of the periodontal ligament. <i>Archives of Oral Biology</i> , <b>1993</b> , 38, 399-403	2.8	43
72	Root-analogue versus crown-analogue dentin: a radioautographic and ultrastructural investigation of the mouse incisor. <i>The Anatomical Record</i> , <b>1986</b> , 215, 106-18		43
71	Fine structure and possible function of cells containing leptomeric organelles in the periodontal ligament of the rat incisor. <i>Archives of Oral Biology</i> , <b>1974</b> , 19, 1099-100	2.8	42
70	On the role of MT1-MMP, a matrix metalloproteinase essential to collagen remodeling, in murine molar eruption and root growth. <i>European Journal of Oral Sciences</i> , <b>2002</b> , 110, 445-51	2.3	40
69	Site-specific localization of two distinct phosphatases along the osteoblast plasma membrane: tissue non-specific alkaline phosphatase and plasma membrane calcium ATPase. <i>Bone</i> , <b>2004</b> , 35, 1077-85	4.7	40
68	Localization of cathepsin B activity in fibroblasts and chondrocytes by continuous monitoring of the formation of a final fluorescent reaction product using 5-nitrosalicylaldehyde. <i>The Histochemical Journal</i> , <b>1987</b> , 19, 483-7		40
67	Tissue dynamics in the periodontal ligament of the mandibular incisor of the mouse: a preliminary report. <i>Archives of Oral Biology</i> , <b>1973</b> , 18, 61-6	2.8	34
66	Cell-bound and extracellular matrix-associated alkaline phosphatase activity in rat periodontal ligament. Experimental Oral Biology Group. <i>Journal of Periodontal Research</i> , <b>1996</b> , 31, 73-9	4.3	33
65	Formation of afibrillar acellular cementum-like layers induced by alkaline phosphatase activity from periodontal ligament explants maintained in vitro. <i>Journal of Dental Research</i> , <b>1994</b> , 73, 1588-92	8.1	33
64	Type VI collagen is phagocytosed by fibroblasts and digested in the lysosomal apparatus: involvement of collagenase, serine proteinases and lysosomal enzymes. <i>Matrix Biology</i> , <b>1995</b> , 14, 665-76	11.4	32
63	Response of periodontal ligament fibroblasts and gingival fibroblasts to pulsating fluid flow: nitric oxide and prostaglandin E2 release and expression of tissue non-specific alkaline phosphatase activity. <i>Journal of Periodontal Research</i> , <b>2000</b> , 35, 335-43	4.3	30
62	Phagocytosis of fibronectin and collagens type I, III, and V by human gingival and periodontal ligament fibroblasts in vitro. <i>Journal of Periodontology</i> , <b>2001</b> , 72, 1340-7	4.6	28

61	Interleukin 1 increases the production of collagenase but does not influence the phagocytosis of collagen fibrils. <i>Matrix Biology</i> , <b>1990</b> , 10, 388-93		28
60	Quantitative analysis of connective tissue resorption in the supra-alveolar region of the mouse incisor ligament. <i>Journal of Periodontal Research</i> , <b>1982</b> , 17, 407-22	4.3	27
59	Generalized cervical root resorption associated with periodontal disease. <i>Journal of Clinical Periodontology</i> , <b>2001</b> , 28, 1067-73	7.7	26
58	Movement of fibroblasts in the periodontal ligament of the mouse incisor is related to eruption. <i>Journal of Dental Research</i> , <b>1987</b> , 66, 1006-10	8.1	26
57	Fine structure of an end organ in the periodontal ligament of the mouse incisor. <i>The Anatomical Record</i> , <b>1977</b> , 189, 73-89		26
56	Calcification of dentinal collagen by cultured rabbit periosteum: the role of alkaline phosphatase. <i>Matrix Biology</i> , <b>1989</b> , 9, 159-71		25
55	Type VI collagen is associated with microfibrils and oxytalan fibers in the extracellular matrix of periodontium, mesenterium and periosteum. <i>Journal of Periodontal Research</i> , <b>1998</b> , 33, 118-25	4.3	24
54	Free and polymerized tubulin in cultured bone cells and Chinese hamster ovary cells: the influence of cold and hormones. <i>Journal of Cell Biology</i> , <b>1982</b> , 95, 387-93	7.3	24
53	Collagen type I, III and V differently modulate synthesis and activation of matrix metalloproteinases by cultured rabbit periosteal fibroblasts. <i>Matrix Biology</i> , <b>2003</b> , 22, 217-27	11.4	23
52	Cytokine-induced endogenous procollagenase stored in the extracellular matrix of soft connective tissue results in a burst of collagen breakdown following its activation. <i>Journal of Periodontal Research</i> , <b>1996</b> , 31, 483-8	4.3	23
51	The distribution of magnesium in developing rat incisor dentin. <i>Journal of Dental Research</i> , <b>1991</b> , 70, 187-91	8.1	22
50	Blood circulation as source for osteopontin in acellular extrinsic fiber cementum and other mineralizing tissues. <i>Journal of Dental Research</i> , <b>1999</b> , 78, 1688-95	8.1	21
49	Ankylosis of the mouse molar after systemic administration of 1-hydroxyethylidene-1,1-bisphosphonate (HEBP). <i>Journal of Clinical Periodontology</i> , <b>1994</b> , 21, 465-71	7.7	21
48	Repair processes in the periodontium following dentoalveolar ankylosis: the effect of masticatory function. <i>Journal of Clinical Periodontology</i> , <b>1994</b> , 21, 472-8	7.7	21
47	The inorganic components of cementum- and enamel-related dentin in the rat incisor. <i>Journal of Dental Research</i> , <b>1990</b> , 69, 1287-92	8.1	21
46	A reproducible microcosm biofilm model of subgingival microbial communities. <i>Journal of Periodontal Research</i> , <b>2017</b> , 52, 1021-1031	4.3	20
45	Endogenous expression and endocytosis of tartrate-resistant acid phosphatase (TRACP) by osteoblast-like cells. <i>Bone</i> , <b>2005</b> , 36, 1065-77	4.7	20
44	Junctions between fibroblasts in mouse periodontal ligament. <i>Journal of Periodontal Research</i> , <b>1980</b> , 15, 655-68	4.3	19

43	The role of microtubules in the phagocytosis of collagen by fibroblasts. <i>Collagen and Related Research</i> , <b>1987</b> , 7, 1-15		18
42	Interleukin-1 alpha and epidermal growth factor synergistically enhance the release of collagenase by periosteal connective tissue in vitro. <i>Matrix Biology</i> , <b>1993</b> , 13, 389-98		17
41	Collagen phagocytosis by fibroblasts in the periodontal ligament of the mouse molar during the initial phase of hypofunction. <i>Journal of Dental Research</i> , <b>1987</b> , 66, 1708-12	8.1	17
40	Resorption of connective tissue in the gingiva of the mouse incisor. <i>The Anatomical Record</i> , <b>1979</b> , 195, 95-108		17
39	The influence of 1-hydroxyethylidene-1,1-bisphosphonate (HEBP) on dental root resorption in the mouse. <i>Calcified Tissue International</i> , <b>1989</b> , 45, 104-10	3.9	16
38	EGF and IL-1 alpha modulate the release of collagenase, gelatinase and TIMP-1 as well as the release of calcium by rabbit calvarial bone explants. <i>Journal of Periodontal Research</i> , <b>1998</b> , 33, 65-72	4.3	15
37	Mineralization of alkaline phosphatase-complexed collagen implants in the rat in relation to serum inorganic phosphate. <i>Journal of Bone and Mineral Research</i> , <b>1995</b> , 10, 616-24	6.3	15
36	Plasminogen activators are involved in the degradation of bone by osteoclasts. <i>Bone</i> , <b>2008</b> , 43, 915-20	4.7	15
35	Collagen degradation in the gingiva of the mouse incisor. Epithelium-connective tissue interactions. <i>Journal of Periodontal Research</i> , <b>1981</b> , 16, 524-41	4.3	15
34	Loss of connective tissue attachment in the marginal periodontium of the mouse following blockage of eruption. <i>Journal of Periodontal Research</i> , <b>1982</b> , 17, 640-56	4.3	15
33	Bound phosphoproteins enhance mineralization of alkaline phosphatase-collagen complexes in vivo. <i>Journal of Bone and Mineral Research</i> , <b>1994</b> , 9, 1205-9	6.3	14
32	Matrix metalloproteinase inhibitors block osteoclastic resorption of calvarial bone but not the resorption of long bone. <i>Annals of the New York Academy of Sciences</i> , <b>1999</b> , 878, 603-6	6.5	14
31	Effect of bound phosphoproteins and other organic phosphates on alkaline phosphatase-induced mineralization of collagenous matrices in vitro. <i>Bone and Mineral</i> , <b>1993</b> , 23, 81-93		14
30	Effects of 1-hydroxyethylidene-1, 1-bisphosphonate (HEBP) on the synthesis of dentin matrix proteins in the mouse. <i>Collagen and Related Research</i> , <b>1987</b> , 7, 135-47		14
29	Effects of fixation and demineralization on the intensity of autoradiographic labelling over the periodontal ligament of the mouse incisor after administration of [3H]-proline. <i>Archives of Oral Biology</i> , <b>1975</b> , 20, 189-93	2.8	14
28	Endocytosis of tartrate-resistant acid phosphatase by osteoblast-like cells is followed by inactivation of the enzyme. <i>Calcified Tissue International</i> , <b>2006</b> , 78, 248-54	3.9	13
27	Family 2 cystatins inhibit osteoclast-mediated bone resorption in calvarial bone explants. <i>Bone</i> , <b>2004</b> , 35, 689-96	4.7	13
26	Mineralization of dentinal collagen sheets complexed with alkaline phosphatase and integration with newly formed bone following subperiosteal implantation over osseous defects in rat calvaria. <i>Bone and Mineral</i> , <b>1993</b> , 20, 41-55		13

25	Resorption of the mouse incisor after the application of cold to the periodontal attachment apparatus. <i>Calcified Tissue International</i> , <b>1986</b> , 39, 11-21	3.9	13
24	Loss of connective tissue attachment in the marginal periodontium of the mouse following blockage of eruption. Electron microscopic observations. <i>Journal of Periodontal Research</i> , <b>1983</b> , 18, 276-281	4.3	13
23	Frequency of occurrence and position of cilia in fibroblasts of the periodontal ligament of the mouse incisor. <i>Cell and Tissue Research</i> , <b>1975</b> , 163, 415-31	4.2	13
22	The release of tissue inhibitor of metalloproteinases by calvarial bone explants and its immunolocalization. <i>Bone and Mineral</i> , <b>1993</b> , 22, 43-55		12
21	Unipolarity of fibroblasts in rodent periodontal ligament. <i>The Anatomical Record</i> , <b>1979</b> , 195, 535-44		12
20	Does routine analysis of subgingival microbiota in periodontitis contribute to patient benefit?. <i>European Journal of Oral Sciences</i> , <b>2011</b> , 119, 259-64	2.3	11
19	Low molecular weight inhibitors of matrix metalloproteinases can enhance the expression of matrix metalloproteinase-2 (gelatinase A) without inhibiting its activation. <i>Cancer</i> , <b>2003</b> , 97, 1582-8	6.4	11
18	Phagocytosis of collagen fibrils by periosteal fibroblasts in long bone explants. Effect of concanavalin A. <i>Tissue and Cell</i> , <b>1992</b> , 24, 935-41	2.7	11
17	Effect of an oxygenating agent on oral bacteria in vitro and on dental plaque composition in healthy young adults. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2014</b> , 4, 95	5.9	10
16	Inhibition of Molar Eruption and Root Elongation in MT1-MMP-Deficient Mice. <i>Connective Tissue Research</i> , <b>2003</b> , 44, 298-299	3.3	10
15	Formation of reparative acellular extrinsic fiber cementum in relation to implant materials installed in rat periodontium. <i>European Journal of Oral Sciences</i> , <b>1998</b> , 106 Suppl 1, 368-75	2.3	10
14	Autodesmosomes in epithelial cells of rests of Malassez in the incisor and molar periodontal ligament of the mouse. <i>Archives of Oral Biology</i> , <b>1979</b> , 24, 239-41	2.8	10
13	Injection of an antigen into the gingiva and its effect on an experimentally induced inflammation in the knee joint of the mouse. <i>Journal of Periodontal Research</i> , <b>1988</b> , 23, 1-6	4.3	9
12	Microtubules in periodontal ligament cells in relation to tooth eruption and collagen degradation. <i>Journal of Periodontal Research</i> , <b>1984</b> , 19, 489-500	4.3	9
11	Transmission electron microscopy of bone. <i>Methods in Molecular Biology</i> , <b>2012</b> , 816, 351-63	1.4	9
10	Structure of the periodontium in cathepsin C-deficient mice. <i>European Journal of Oral Sciences</i> , <b>2006</b> , 114, 171-3	2.3	8
9	Involvement of V-ATPases in the digestion of soft connective tissue collagen. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 251, 429-36	3.4	6
8	Mineralization of alkaline phosphatase-complexed collagenous implants in the rat: relation with age, sex, and site of implantation. <i>Journal of Biomedical Materials Research Part B</i> , <b>1994</b> , 28, 1295-301		6

7	Identity of a population of progenitor cells in gingival connective tissue of the mouse incisor. <i>The Anatomical Record</i> , <b>1978</b> , 192, 319-23		5
6	Cytokines modulate contraction of periosteal explants from rabbit calvariae. <i>Connective Tissue Research</i> , <b>1995</b> , 31, 141-51	3.3	4
5	Loss of attachment in the marginal periodontium of the rat incisor under non-inflammatory conditions. Expression of alkaline phosphatase activity. Experimental Oral Biology Group. <i>Journal of Periodontal Research</i> , <b>1996</b> , 31, 66-72	4.3	4
4	Gene symbol: CTSC. Disease: Papillon-Lefevre syndrome. <i>Human Genetics</i> , <b>2005</b> , 116, 545	6.3	4
3	External Lysosomes <b>2005</b> , 144-155		2
2	Transmission Electron Microscopy of Bone. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1914, 617-629	1.4	1
1	Transmission electron microscopy of bone. <i>Methods in Molecular Medicine</i> , <b>2003</b> , 80, 299-310		