

Rachel J Waddington

List of Publications by Year in descending order

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92
papers

3,447
citations

126907

33
h-index

161849

54
g-index

103
all docs

103
docs citations

103
times ranked

3874
citing authors

#	ARTICLE	IF	CITATIONS
1	Dental Pulp Stem Cell Heterogeneity: Finding Superior Quality "Needles" in a Dental Pulpal "Haystack" for Regenerative Medicine-Based Applications. <i>Stem Cells International</i> , 2022, 2022, 1-20.	2.5	13
2	Identifying the Efficacy of Extracellular Vesicles in Osteogenic Differentiation: An Evolution in Regenerative Medicine. <i>Frontiers in Dental Medicine</i> , 2022, 3, .	1.4	1
3	Differential SOD2 and GSTZ1 profiles contribute to contrasting dental pulp stem cell susceptibilities to oxidative damage and premature senescence. <i>Stem Cell Research and Therapy</i> , 2021, 12, 142.	5.5	10
4	Exploring a Chemotactic Role for EVs from Progenitor Cell Populations of Human Exfoliated Deciduous Teeth for Promoting Migration of Na ⁺ -ve BMSCs in Bone Repair Process. <i>Stem Cells International</i> , 2021, 2021, 1-7.	2.5	8
5	Modification of gingival proteoglycans by reactive oxygen species: potential mechanism of proteoglycan degradation during periodontal diseases. <i>Free Radical Research</i> , 2021, 55, 970-981.	3.3	2
6	Evaluation of Dental Pulp Stem Cell Heterogeneity and Behaviour in 3D Type I Collagen Gels. <i>BioMed Research International</i> , 2020, 2020, 1-12.	1.9	13
7	Interrogating the Osteogenic Potential of Implant Surfaces In Vitro: A Review of Current Assays. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 217-229.	4.8	5
8	Discrimination of Dental Pulp Stem Cell Regenerative Heterogeneity by Single-Cell Raman Spectroscopy. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 489-499.	2.1	16
9	Efficacy of copolymer scaffolds delivering human demineralised dentine matrix for bone regeneration. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141985270.	5.5	16
10	Array analysis for T-cell associated cytokines in gingival crevicular fluid: Identifying altered profiles associated with periodontal disease status. <i>Journal of Dentistry</i> , 2019, 85, 39-46.	4.1	9
11	Effects of high glucose conditions on the expansion and differentiation capabilities of mesenchymal stromal cells derived from rat endosteal niche. <i>BMC Molecular and Cell Biology</i> , 2019, 20, 51.	2.0	21
12	Real-time binding kinetic analyses of the interaction of the dietary stain orange II with dentin matrix. <i>Journal of Dentistry</i> , 2019, 80, 80-88.	4.1	2
13	Liposomal Delivery of Demineralized Dentin Matrix for Dental Tissue Regeneration. <i>Tissue Engineering - Part A</i> , 2018, 24, 1057-1065.	3.1	24
14	Isolation and Characterisation of Mesenchymal Stem Cells from Rat Bone Marrow and the Endosteal Niche: A Comparative Study. <i>Stem Cells International</i> , 2018, 2018, 1-14.	2.5	41
15	Variation in human dental pulp stem cell ageing profiles reflect contrasting proliferative and regenerative capabilities. <i>BMC Cell Biology</i> , 2017, 18, 12.	3.0	77
16	Analysing the bioactive makeup of demineralised dentine matrix on bone marrow mesenchymal stem cells for enhanced bone repair. , 2017, 34, 1-14.		35
17	Clonal Heterogeneity in the Neuronal and Glial Differentiation of Dental Pulp Stem/Progenitor Cells. <i>Stem Cells International</i> , 2016, 2016, 1-10.	2.5	29
18	An assessment of early colonisation of implant-abutment metal surfaces by single species and co-cultured bacterial periodontal pathogens. <i>Journal of Dentistry</i> , 2016, 53, 64-72.	4.1	12

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19	Growth Factor Liberation and DPSC Response Following Dentine Conditioning. <i>Journal of Dental Research</i> , 2016, 95, 1298-1307.	5.2	47
20	Osteoclastogenesis-Related Cytokines and Peri-Prosthetic Osteolysis in Revision Metal-On-Metal Total Hip Replacements. <i>HIP International</i> , 2015, 25, 355-360.	1.7	6
21	Elucidating the cellular actions of demineralised dentine matrix extract on a clonal dental pulp stem cell population in orchestrating dental tissue repair. <i>Journal of Tissue Engineering</i> , 2015, 6, 204173141558631.	5.5	29
22	A 3D <i>ex vivo</i> mandible slice system for longitudinal culturing of transplanted dental pulp progenitor cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 921-928.	1.5	7
23	Differential influence of fluoride concentration on the synthesis of bone matrix glycoproteins within mineralizing bone cells <i>in vitro</i> . <i>Acta Odontologica Scandinavica</i> , 2014, 72, 1066-1069.	1.6	10
24	Quantification of clonal heterogeneity of mesenchymal progenitor cells in dental pulp and bone marrow. <i>Connective Tissue Research</i> , 2014, 55, 62-67.	2.3	23
25	Development of an Ex Vivo Coculture System to Model Pulpal Infection by <i>Streptococcus anginosus</i> Group Bacteria. <i>Journal of Endodontics</i> , 2013, 39, 49-56.	3.1	9
26	Differential cellular and microbial responses to nano-/micron-scale titanium surface roughness induced by hydrogen peroxide treatment. <i>Journal of Biomaterials Applications</i> , 2013, 28, 144-160.	2.4	12
27	A Novel Ex vivo Culture Model for Inflammatory Bone Destruction. <i>Journal of Dental Research</i> , 2013, 92, 728-734.	5.2	22
28	Impact of bidirectional relationships between streptococcus anginosus group and host tissue matrix components on cellular activity: role in establishment of infection. <i>Microbiology Discovery</i> , 2013, 1, 4.	0.7	0
29	In vivo monitoring of the bone healing process around different titanium alloy implant surfaces placed into fresh extraction sockets. <i>Journal of Dentistry</i> , 2012, 40, 338-346.	4.1	25
30	An ex vivo culture model for orthodontically induced root resorption. <i>Journal of Dentistry</i> , 2012, 40, 406-415.	4.1	14
31	Real-time monitoring of the adherence of <i>Streptococcus anginosus</i> group bacteria to extracellular matrix decorin and biglycan proteoglycans in biofilm formation. <i>Research in Microbiology</i> , 2012, 163, 436-447.	2.1	8
32	Is there anything to be gained by augmenting the implant surface?. <i>Faculty Dental Journal</i> , 2012, 3, 28-33.	0.2	1
33	Delayed osteoblast differentiation and altered inflammatory response around implants placed in incisor sockets of type 2 diabetic rats. <i>Clinical Oral Implants Research</i> , 2011, 22, 578-586.	4.5	53
34	Characterization of Oxidative Stress Status during Diabetic Bone Healing. <i>Cells Tissues Organs</i> , 2011, 194, 307-312.	2.3	19
35	TGF-beta1 Exposure from Bone Surfaces by Chemical Treatment Modalities. , 2011, 21, 193-201.		8
36	An <i>Ex Vivo</i> Rodent Mandible Culture Model for Bone Repair. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 1287-1296.	2.1	27

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37	TGF- β 2/Extracellular Matrix Interactions in Dentin Matrix: A Role in Regulating Sequestration and Protection of Bioactivity. <i>Calcified Tissue International</i> , 2009, 85, 66-74.	3.1	72
38	Dental pulp stem cells: what, where, how?. <i>International Journal of Paediatric Dentistry</i> , 2009, 19, 61-70.	1.8	128
39	Isolation of Distinct Progenitor Stem Cell Populations from Dental Pulp. <i>Cells Tissues Organs</i> , 2009, 189, 268-274.	2.3	141
40	Lipopolysaccharide alters decorin and biglycan synthesis in rat alveolar bone osteoblasts: consequences for bone repair during periodontal disease. <i>European Journal of Oral Sciences</i> , 2008, 116, 207-216.	1.5	34
41	Identification of dentine sialoprotein in gingival crevicular fluid during physiological root resorption and orthodontic tooth movement. <i>European Journal of Orthodontics</i> , 2008, 30, 307-314.	2.4	35
42	Decorin Regulates Endothelial Cell Motility on Collagen I through Activation of Insulin-like Growth Factor I Receptor and Modulation of β 1 Integrin Activity. <i>Journal of Biological Chemistry</i> , 2008, 283, 17406-17415.	3.4	93
43	Bespoke Human Hypertrophic Chondrocytic Cell Lines Provide the Osteoinductive Signals Required for Vascularized Bone Formation. <i>Tissue Engineering</i> , 2007, 13, 133-145.	4.6	7
44	Serum from Postmenopausal Women Directs Differentiation of Human Clonal Osteoprogenitor Cells from an Osteoblastic toward an Adipocytic Phenotype. <i>Calcified Tissue International</i> , 2007, 80, 233-243.	3.1	21
45	Substitution of bovine dentine sialoprotein with chondroitin sulfate glycosaminoglycan chains. <i>European Journal of Oral Sciences</i> , 2006, 114, 89-92.	1.5	14
46	Adsorption and interactions of dentine phosphoprotein with hydroxyapatite and collagen. <i>European Journal of Oral Sciences</i> , 2006, 114, 223-231.	1.5	33
47	Modulation of Collagen Fibrillogenesis by Dentinal Proteoglycans. <i>Calcified Tissue International</i> , 2005, 76, 127-135.	3.1	38
48	Extracellular matrix metabolites as potential biomarkers of disease activity in wound fluid: lessons learned from other inflammatory diseases?. <i>British Journal of Dermatology</i> , 2004, 150, 401-413.	1.5	100
49	Comparison of oxidative stress biomarker profiles between acute and chronic wound environments. <i>Wound Repair and Regeneration</i> , 2004, 12, 419-429.	3.0	115
50	Dentinal Proteoglycans Demonstrate an Increasing Order of Affinity for Hydroxyapatite Crystals During the Transition of Predentine to Dentine. <i>Calcified Tissue International</i> , 2004, 75, 197-204.	3.1	17
51	Fluoride-induced changes to proteoglycan structure synthesised within the dentine-pulp complex in vitro. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2004, 1689, 142-151.	3.8	20
52	The Influence of Fluoride Exposure on Dentin Mineralization Using an in Vitro Organ Culture Model. <i>Calcified Tissue International</i> , 2003, 73, 470-475.	3.1	16
53	The influence of fluoride on the cellular morphology and synthetic activity of the rat dentine-pulp complex in vitro. <i>Archives of Oral Biology</i> , 2003, 48, 39-46.	1.8	18
54	Odontoblast transport of sulphate in the in vitro influence of fluoride. <i>Archives of Oral Biology</i> , 2003, 48, 377-387.	1.8	4

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55	Comparison of the antioxidant properties of wound dressing materials—carboxymethylcellulose, hyaluronan benzyl ester and hyaluronan, towards polymorphonuclear leukocyte-derived reactive oxygen species. <i>Biomaterials</i> , 2003, 24, 1549-1557.	11.4	89
56	Changing profiles of proteoglycans in the transition of predentine to dentine. <i>Matrix Biology</i> , 2003, 22, 153-161.	3.6	60
57	Identification of Proteinaceous Material in the Bone of the Dinosaur Iguanodon. <i>Connective Tissue Research</i> , 2003, 44, 41-46.	2.3	14
58	Altered Expression of Matrix Metalloproteinases Within Mineralizing Bone Cells In Vitro in the Presence of Fluoride. <i>Connective Tissue Research</i> , 2003, 44, 88-95.	2.3	22
59	Molecular Interaction of Recombinant Decorin and Biglycan with Type I Collagen Influences Crystal Growth. <i>Connective Tissue Research</i> , 2003, 44, 189-195.	2.3	47
60	Identification of Proteinaceous Material in the Bone of the Dinosaur Iguanodon. <i>Connective Tissue Research</i> , 2003, 44, 41-46.	2.3	4
61	Differential roles for small leucine-rich proteoglycans in bone formation. , 2003, 6, 12-21.		147
62	Hyaluronan and its Potential Role in Periodontal Healing. <i>Dental Update</i> , 2002, 29, 144-148.	0.2	57
63	The Interaction of Recombinant Decorin with \pm 2HS-Glycoprotein—Implications for Structural and Functional Investigations. <i>Protein Expression and Purification</i> , 2002, 25, 180-188.	1.3	7
64	Comparison of the antioxidant properties of HYAFF®-11p75, AQUACEL® and hyaluronan towards reactive oxygen species in vitro. <i>Biomaterials</i> , 2002, 23, 2255-2264.	11.4	55
65	Interaction of bone proteoglycans and proteoglycan components with hydroxyapatite. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1568, 118-128.	2.4	37
66	Proteoglycans and Orthodontic Tooth Movement. <i>Journal of Orthodontics</i> , 2001, 28, 281-290.	1.0	45
67	Fluoride alters casein kinase II and alkaline phosphatase activity in vitro with potential implications for dentine mineralization. <i>Archives of Oral Biology</i> , 2001, 46, 343-351.	1.8	22
68	Proteoglycans in Dentinogenesis. <i>Critical Reviews in Oral Biology and Medicine</i> , 2001, 12, 331-349.	4.4	160
69	Connective tissue elements as diagnostic aids in periodontology. <i>Periodontology 2000</i> , 2000, 24, 193-214.	13.4	44
70	The Isolation and Detection of Non-Collagenous Proteins from the Compact Bone of the Dinosaur Iguanodon. <i>Connective Tissue Research</i> , 2000, 41, 249-259.	2.3	7
71	Periodontal Disease Mechanisms: Reactive oxygen species: a potential role in the pathogenesis of periodontal diseases. <i>Oral Diseases</i> , 2000, 6, 138-151.	3.0	325
72	Adsorption of glycosaminoglycans onto hydroxyapatite using chromatography. <i>Biomaterials</i> , 1999, 20, 309-314.	11.4	18

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73	Effect of environmental haemin upon the physiology and biochemistry of <i>Prevotella intermedia</i> . Letters in Applied Microbiology, 1999, 29, 31-36.	2.2	5
74	Altered Phosphorylation of Rat Dentine Phosphoproteins by Fluoride In Vivo. Calcified Tissue International, 1999, 64, 234-238.	3.1	22
75	Immunochemical detection of the proteoglycans decorin and biglycan in human gingival crevicular fluid from sites of advanced periodontitis. Archives of Oral Biology, 1998, 43, 287-295.	1.8	20
76	Structural analysis of proteoglycans synthesized by mineralizing bone cells in vitro in the presence of fluoride. Matrix Biology, 1998, 17, 255-268.	3.6	34
77	The Modification of Alveolar Bone Proteoglycans by Reactive Oxygen Species <i>In Vitro</i>. Connective Tissue Research, 1998, 37, 13-28.	2.3	39
78	Calcium and hydroxyapatite binding properties of glucuronic acid rich and iduronic acid rich glycosaminoglycans and proteoglycans. European Journal of Oral Sciences, 1998, 106, 267-273.	1.5	47
79	Degradation of glycosaminoglycans by reactive oxygen species derived from stimulated polymorphonuclear leukocytes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1997, 1362, 221-231.	3.8	130
80	A biochemical and immuno-electron microscopical analysis of chondroitin sulphate-rich proteoglycans in human alveolar bone. The Histochemical Journal, 1997, 29, 1-9.	0.6	45
81	Modification of the proteoglycans of rat incisor dentin ? predentin during in vivo fluorosis. European Journal of Oral Sciences, 1996, 104, 285-291.	1.5	18
82	Relationship of sulphated glycosaminoglycans in human gingival crevicular fluid with active periodontal disease. Journal of Periodontal Research, 1996, 31, 168-170.	2.7	14
83	Hydrolytic and depolymerising enzyme activity of <i>Prevotella intermedia</i> and <i>Prevotella nigrescens</i>. Oral Diseases, 1996, 2, 272-278.	3.0	21
84	The influence of fluoride on the adsorption of proteoglycans and glycosaminoglycans to hydroxyapatite. Calcified Tissue International, 1995, 56, 236-239.	3.1	12
85	The chemical modification of glycosaminoglycan structure by oxygen-derived species in vitro. Biochimica Et Biophysica Acta - General Subjects, 1995, 1244, 245-252.	2.4	68
86	Characterization of proteoglycan metabolites in human gingival crevicular fluid during orthodontic tooth movement. Archives of Oral Biology, 1994, 39, 361-368.	1.8	32
87	Changes in the composition of glycosaminoglycans during normal palatogenesis in the rat. Archives of Oral Biology, 1994, 39, 401-407.	1.8	27
88	The influence of fluoride on proteoglycan structure using a rat odontoblast in vitro system. Calcified Tissue International, 1993, 52, 392-398.	3.1	33
89	Structural characterization of human alveolar bone proteoglycans. Archives of Oral Biology, 1991, 36, 859-866.	1.8	50
90	Levels of glycosaminoglycans in peri-implant sulcus fluid as a means of monitoring bone response to endosseous dental implants. Clinical Oral Implants Research, 1991, 2, 179-185.	4.5	8

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91	Glycosaminoglycans of human alveolar bone. Archives of Oral Biology, 1989, 34, 587-589.	1.8	58
92	The Glycosaminoglycan Constituents of Alveolar and Basal Bone of the Rabbit. Connective Tissue Research, 1988, 17, 171-180.	2.3	38