John D Bartlett

List of Publications by Year in descending order

112 papers	5,875 citations	70961 41 h-index	76769 74 g-index
114 all docs	114 docs citations	114 times ranked	3556 citing authors

#	Article	IF	Citations
1	Curcumin suppresses cell growth and attenuates fluoride-mediated Caspase-3 activation in ameloblast-like LS8 cells. Environmental Pollution, 2021, 273, 116495.	3.7	13
2	MMP20-generated amelogenin cleavage products prevent formation of fan-shaped enamel malformations. Scientific Reports, 2021, 11, 10570.	1.6	11
3	A genetic model for the secretory stage of dental enamel formation. Journal of Structural Biology, 2021, 213, 107805.	1.3	17
4	ATG7 is essential for secretion of iron from ameloblasts and normal growth of murine incisors during aging. Autophagy, 2020, 16, 1851-1857.	4.3	20
5	Histone acetyltransferase promotes fluoride toxicity in LS8 cells. Chemosphere, 2020, 247, 125825.	4.2	13
6	Dental malformations associated with biallelic MMP20 mutations. Molecular Genetics & Genomic Medicine, 2020, 8, e1307.	0.6	9
7	How fluoride protects dental enamel from demineralization. Journal of International Society of Preventive and Community Dentistry, 2020, 10, 134.	0.4	18
8	ADAM10 is Expressed by Ameloblasts, Cleaves the RELT TNF Receptor Extracellular Domain and Facilitates Enamel Development. Scientific Reports, 2019, 9, 14086.	1.6	13
9	MDM2-Mediated p21 Proteasomal Degradation Promotes Fluoride Toxicity in Ameloblasts. Cells, 2019, 8, 436.	1.8	13
10	Mutations in RELT cause autosomal recessive amelogenesis imperfecta. Clinical Genetics, 2019, 95, 375-383.	1.0	49
11	Sirt1 overexpression suppresses fluoride-induced p53 acetylation to alleviate fluoride toxicity in ameloblasts responsible for enamel formation. Archives of Toxicology, 2018, 92, 1283-1293.	1.9	28
12	4-phenylbutyrate Mitigates Fluoride-Induced Cytotoxicity in ALC Cells. Frontiers in Physiology, 2017, 8, 302.	1.3	11
13	Murine matrix metalloproteinase-20 overexpression stimulates cell invasion into the enamel layer via enhanced Wnt signaling. Scientific Reports, 2016, 6, 29492.	1.6	9
14	MMP20, KLK4, and MMP20/KLK4 double null mice define roles for matrix proteases during dental enamel formation. Molecular Genetics & Genomic Medicine, 2016, 4, 178-196.	0.6	36
15	Betaâ€catenin is essential for ameloblast movement during enamel development. European Journal of Oral Sciences, 2016, 124, 221-227.	0.7	25
16	Appropriate real-time PCR reference genes for fluoride treatment studies performed in vitro or in vivo. Archives of Oral Biology, 2016, 62, 33-42.	0.8	7
17	New Perspectives on Amelotin and Amelogenesis. Journal of Dental Research, 2015, 94, 642-644.	2.5	18
18	Fluoride induces oxidative damage and SIRT1/autophagy through ROS-mediated JNK signaling. Free Radical Biology and Medicine, 2015, 89, 369-378.	1.3	178

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19	Matrix Metalloproteinase-20 Over-Expression Is Detrimental to Enamel Development: A Mus musculus Model. PLoS ONE, 2014, 9, e86774.	1.1	22
20	Comparison of two mouse ameloblast-like cell lines for enamel-specific gene expression. Frontiers in Physiology, 2014, 5, 277.	1.3	36
21	Kallikrein-related peptidase-4 (KLK4): role in enamel formation and revelations from ablated mice. Frontiers in Physiology, 2014, 5, 240.	1.3	26
22	Uncoupling protein-2 is an antioxidant that is up-regulated in the enamel organ of fluoride-treated rats. Connective Tissue Research, 2014, 55, 25-28.	1.1	21
23	Sirtuin1 and autophagy protect cells from fluoride-induced cell stress. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 245-255.	1.8	67
24	Fluoride Affects Enamel Protein Content via TGF-Î²1-mediated KLK4 Inhibition. Journal of Dental Research, 2014, 93, 1022-1027.	2.5	47
25	E-Cadherin Can Replace N-Cadherin during Secretory-Stage Enamel Development. PLoS ONE, 2014, 9, e102153.	1.1	9
26	Shear bond strength of dentin and deproteinized enamel of amelogenesis imperfecta mouse incisors. Pediatric Dentistry (discontinued), 2014, 36, 130-6.	0.4	1
27	MMP20 and KLK4 activation and inactivation interactions in vitro. Archives of Oral Biology, 2013, 58, 1569-1577.	0.8	25
28	Modulation of Cell-Cell Junctional Complexes by Matrix Metalloproteinases. Journal of Dental Research, 2013, 92, 10-17.	2.5	39
29	M180 Amelogenin Processed by MMP20 is Sufficient for Decussating Murine Enamel. Journal of Dental Research, 2013, 92, 1118-1122.	2.5	15
30	MMP20 Modulates Cadherin Expression in Ameloblasts as Enamel Develops. Journal of Dental Research, 2013, 92, 1123-1128.	2.5	22
31	Novel KLK4 and MMP20 Mutations Discovered by Whole-exome Sequencing. Journal of Dental Research, 2013, 92, 266-271.	2.5	47
32	Matrix Metalloproteinase-20/Enamelysin. , 2013, , 835-840.		0
33	Dental Enamel Development: Proteinases and Their Enamel Matrix Substrates. ISRN Dentistry, 2013, 2013, 1-24.	1.5	146
34	Stress Response Pathways in Ameloblasts: Implications for Amelogenesis and Dental Fluorosis. Cells, 2012, 1, 631-645.	1.8	27
35	Role of N-Cadherin in Intercellular Adhesion, Tissue Development, Cytoskeleton Formation, and Signaling. , 2012, , 396-401.		1
36	Transcription Factor FoxO1 Is Essential for Enamel Biomineralization. PLoS ONE, 2012, 7, e30357.	1.1	18

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37	A Potential Mechanism for the Development of Dental Fluorosis. , 2012, , 408-412.		0
38	Matrix Metalloproteinase-20 and Ameloblast Cell Movement in Rows. , 2012, , 367-372.		0
39	The Use of Mouse Models to Investigate Shear Bond Strength in Amelogenesis Imperfecta. Journal of Dental Research, 2011, 90, 1352-1357.	2.5	6
40	MMP20 Cleaves E-Cadherin and Influences Ameloblast Development. Cells Tissues Organs, 2011, 194, 222-226.	1.3	23
41	Relationships between protein and mineral during enamel development in normal and genetically altered mice. European Journal of Oral Sciences, 2011, 119, 125-135.	0.7	37
42	Kallikreinâ€related peptidase 4, matrix metalloproteinase 20, and the maturation of murine and porcine enamel. European Journal of Oral Sciences, 2011, 119, 217-225.	0.7	35
43	Matrix metalloproteinase 20 promotes a smooth enamel surface, a strong dentinoâ€“enamel junction, and a decussating enamel rod pattern. European Journal of Oral Sciences, 2011, 119, 199-205.	0.7	32
44	Enamel proteins and proteases in Mmp20 and Klk4 null and doubleâ€null mice. European Journal of Oral Sciences, 2011, 119, 206-216.	0.7	57
45	Inhibition of matrix metalloproteinase-9 activity by doxycycline ameliorates RANK ligand-induced osteoclast differentiation in vitro and in vivo. Experimental Cell Research, 2011, 317, 1454-1464.	1.2	45
46	Assessment of Dental Fluorosis in Mmp20+/â^' Mice. Journal of Dental Research, 2011, 90, 788-792.	2.5	22
47	Measurement of Fluoride-Induced Endoplasmic Reticulum Stress Using Gaussia Luciferase. Methods in Enzymology, 2011, 491, 111-125.	0.4	6
48	Why Does Enamel in <i>Klk4</i>-Null Mice Break above the Dentino-Enamel Junction?. Cells Tissues Organs, 2011, 194, 211-215.	1.3	28
49	Fluoride Does Not Inhibit Enamel Protease Activity. Journal of Dental Research, 2011, 90, 489-494.	2.5	13
50	Effect of Kallikrein 4 Loss on Enamel Mineralization. Journal of Biological Chemistry, 2011, 286, 18149-18160.	1.6	54
51	Targeted p120-Catenin Ablation Disrupts Dental Enamel Development. PLoS ONE, 2010, 5, e12703.	1.1	45
52	Cleavage Site Specificity of MMP-20 for Secretory-stage Ameloblastin. Journal of Dental Research, 2010, 89, 785-790.	2.5	54
53	Altered Ion-responsive Gene Expression in Mmp20 Null Mice. Journal of Dental Research, 2010, 89, 1421-1426.	2.5	9
54	The Acid Test of Fluoride: How pH Modulates Toxicity. PLoS ONE, 2010, 5, e10895.	1.1	49

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55	Activation of the critical enamel protease kallikrein-4. , 2010, , 413-415.		0
56	The human genetics of amelogenesis imperfecta. , 2010, , 375-381.		0
57	A stress-based mechanism to explain dental fluorosis. , 2010, , 421-423.		0
58	Lysosomal Protease Expression in Mature Enamel. Cells Tissues Organs, 2009, 189, 111-114.	1.3	13
59	Human and Mouse Enamel Phenotypes Resulting from Mutation or Altered Expression of <i>AMEL, ENAM</i>, <i>MMP20</i> and <i>KLK4</i>. Cells Tissues Organs, 2009, 189, 224-229.	1.3	80
60	Mmp-20 and Klk4 Cleavage Site Preferences for Amelogenin Sequences. Journal of Dental Research, 2009, 88, 823-828.	2.5	92
61	DPPI May Activate KLK4 during Enamel Formation. Journal of Dental Research, 2009, 88, 323-327.	2.5	27
62	Transforming growth factorâ€Î²1 expression is upâ€regulated in maturationâ€stage enamel organ and may induce ameloblast apoptosis. European Journal of Oral Sciences, 2009, 117, 105-112.	0.7	36
63	Mutational spectrum ofFAM83H: the C-terminal portion is required for tooth enamel calcification. Human Mutation, 2008, 29, E95-E99.	1.1	57
64	Functions of KLK4 and MMP-20 in dental enamel formation. Biological Chemistry, 2008, 389, 695-700.	1.2	207
65	XBP1 May Determine the Size of the Ameloblast Endoplasmic Reticulum. Journal of Dental Research, 2008, 87, 1058-1062.	2.5	12
66	Premature Stop Codon inMMP20Causing Amelogenesis Imperfecta. Journal of Dental Research, 2008, 87, 56-59.	2.5	68
67	Fluoride Induces Endoplasmic Reticulum Stress and Inhibits Protein Synthesis and Secretion. Environmental Health Perspectives, 2008, 116, 1142-1146.	2.8	103
68	Amelogenin- and Enamelysin (Mmp-20)-Deficient Mice Display Altered Birefringence in the Secretory-Stage Enamel Organic Extracellular Matrix. Connective Tissue Research, 2007, 48, 39-45.	1.1	14
69	Proteinâ€"Protein Interactions of the Developing Enamel Matrix. Current Topics in Developmental Biology, 2006, 74, 57-115.	1.0	136
70	MMP-20 Is Predominately a Tooth-Specific Enzyme with a Deep Catalytic Pocket that Hydrolyzes Type V Collagenâ€. Biochemistry, 2006, 45, 3863-3874.	1.2	39
71	Mutational analysis of candidate genes in 24 amelogenesis imperfecta families. European Journal of Oral Sciences, 2006, 114, 3-12.	0.7	78
72	A developmental comparison of matrix metalloproteinase-20 and amelogenin null mouse enamel. European Journal of Oral Sciences, 2006, 114, 18-23.	0.7	44

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73	Formation of the dentino-enamel interface in enamelysin (MMP-20)-deficient mouse incisors. European Journal of Oral Sciences, 2006, 114, 24-29.	0.7	27
74	Origin, Splicing, and Expression of Rodent Amelogenin Exon 8. Journal of Dental Research, 2006, 85, 894-899.	2.5	26
75	Developmental analysis and computer modelling of bioengineered teeth. Archives of Oral Biology, 2005, 50, 259-265.	0.8	44
76	Making the Cut in Dental Enamelâ€"The Discovery of Enamelysin (MMP-20). Journal of Dental Research, 2005, 84, 986-988.	2.5	0
77	Fluorosis: A New Model and New Insights. Journal of Dental Research, 2005, 84, 832-836.	2.5	44
78	Fluoride Induces Endoplasmic Reticulum Stress in Ameloblasts Responsible for Dental Enamel Formation. Journal of Biological Chemistry, 2005, 280, 23194-23202.	1.6	147
79	MMP-20 mutation in autosomal recessive pigmented hypomaturation amelogenesis imperfecta. Journal of Medical Genetics, 2005, 42, 271-275.	1.5	212
80	Decreased Mineral Content in MMP-20 Null Mouse Enamel is Prominent During the Maturation Stage. Journal of Dental Research, 2004, 83, 909-913.	2.5	103
81	Kallikrein 4 Is a Secreted Protein. Cancer Research, 2004, 64, 8481-8483.	0.4	13
82	Bioengineered Teeth from Cultured Rat Tooth Bud Cells. Journal of Dental Research, 2004, 83, 523-528.	2.5	351
83	Mineral Acquisition Rates in Developing Enamel on Maxillary and Mandibular Incisors of Rats and Mice: Implications to Extracellular Acid Loading as Apatite Crystals Mature. Journal of Bone and Mineral Research, 2004, 20, 240-249.	3.1	80
84	Expression of collagen XVIII and MMP-20 in developing teeth and odontogenic tumors. Matrix Biology, 2004, 23, 153-161.	1.5	23
85	Enamelysin. , 2004, , 561-564.		4
86	Delayed Tooth Eruption in Membrane Type-1 Matrix Metalloproteinase Deficient Mice. Connective Tissue Research, 2003, 44, 300-304.	1.1	28
87	Growth of Porcine Enamel-, Dentin-, and Cementum-Derived Cells in Collagen-Glycosaminoglycan Matrices in Vitro: Expression of Î±-Smooth Muscle Actin and Contraction. Tissue Engineering, 2003, 9, 175-186.	4.9	4
88	Delayed Tooth Eruption in Membrane Type-1 Matrix Metalloproteinase Deficient Mice. Connective Tissue Research, 2003, 44, 300-304.	1.1	8
89	Delayed tooth eruption in membrane type-1 matrix metalloproteinase deficient mice. Connective Tissue Research, 2003, 44 Suppl 1, 300-4.	1.1	13
90	Regulation and Interactions of MT1-MMP and MMP-20 in Human Odontoblasts and Pulp Tissuein vitro. Journal of Dental Research, 2002, 81, 354-359.	2.5	40

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91	Enamelysin (Matrix Metalloproteinase 20)-deficient Mice Display an Amelogenesis Imperfecta Phenotype. Journal of Biological Chemistry, 2002, 277, 49598-49604.	1.6	228
92	Bisphosphonates inhibit stromelysin-1 (MMP-3), matrix metalloelastase (MMP-12), collagenase-3 (MMP-13) and enamelysin (MMP-20), but not urokinase-type plasminogen activator, and diminish invasion and migration of human malignant and endothelial cell lines. Anti-Cancer Drugs, 2002, 13, 245-254.	0.7	91
93	Enamelysin and kallikrein-4 mRNA expression in developing mouse molars. European Journal of Oral Sciences, 2002, 110, 307-315.	0.7	121
94	Porcine kallikrein-4 activation, glycosylation, activity, and expression in prokaryotic and eukaryotic hosts. European Journal of Oral Sciences, 2002, 110, 358-365.	0.7	89
95	Gelatinase A (MMP-2) in Developing Tooth Tissues and Amelogenin Hydrolysis. Journal of Dental Research, 2001, 80, 1660-1664.	2.5	39
96	Expression and Regulation of MMP-20 in Human Tongue Carcinoma Cells. Journal of Dental Research, 2001, 80, 1884-1889.	2.5	38
97	One-step sandwich enzyme immunoassay using monoclonal antibodies for detection of human enamelysin (MMP-20). European Journal of Oral Sciences, 2000, 108, 530-537.	0.7	7
98	Localization of EMSP1 Expression During Tooth Formation and Cloning of Mouse cDNA. Journal of Dental Research, 2000, 79, 70-76.	2.5	53
99	Cloning, Characterization, and Expression Analysis of Mouse Enamelysin. Journal of Dental Research, 2000, 79, 1697-1703.	2.5	29
100	Immunohistochemical Detection and Distribution of Enamelysin (MMP-20) in Human Odontogenic Tumors. Journal of Dental Research, 2000, 79, 1608-1613.	2.5	57
101	Characterization of Recombinant Pig Enamelysin Activity and Cleavage of Recombinant Pig and Mouse Amelogenins. Journal of Dental Research, 1999, 78, 743-750.	2.5	188
102	Isolation, Characterization, and Chromosomal Location of the Mouse Enamelysin Gene. Genomics, 1999, 62, 308-311.	1.3	17
103	Dentin sialoprotein, dentin phosphoprotein, enamelysin and ameloblastin, tooth- specific molecules that are distinctively expressed during murine dental differentiation. European Journal of Oral Sciences, 1998, 106, 963-970.	0.7	254
104	Expression and localization of membrane type 1 matrix metalloproteinase in tooth tissues. Matrix Biology, 1998, 17, 501-511.	1.5	34
105	Enamelysin mRNA Displays a Developmental Defined Pattern of Expression and Encodes a Protein which Degrades Amelogenin. Connective Tissue Research, 1998, 39, 101-109.	1.1	73
106	Purification, Characterization, and Cloning of Enamel Matrix Serine Proteinase 1. Journal of Dental Research, 1998, 77, 377-386.	2.5	160
107	Enamelysin (Matrix Metalloproteinase-20): Localization in the Developing Tooth and Effects of pH and Calcium on Amelogenin Hydrolysis. Journal of Dental Research, 1998, 77, 1580-1588.	2.5	107
108	Identification and Structural and Functional Characterization of Human Enamelysin (MMP-20)â€,â€¡. Biochemistry, 1997, 36, 15101-15108.	1.2	199

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109	Molecular cloning and mRNA tissue distribution of a novel matrix metalloproteinase isolated from porcine enamel organ. Gene, 1996, 183, 123-128.	1.0	203
110	Cloning, cDNA Sequence, and Alternative Splicing of Porcine Amelogenin mRNAs. Journal of Dental Research, 1996, 75, 1735-1741.	2.5	97
111	Two expressed human genes sustain slightly more DNA damage after alkylating agent treatment than an inactive gene. Mutation Research DNA Repair, 1991, 255, 247-256.	3.8	15
112	O6-methylguanine-DNA methyltransferase activities from exponentially growing human T lymphocytes: similar activities in controls and Alzheimer's disease patients. Mutagenesis, 1990, 5, 169-172.	1.0	5