Malcolm L Snead

List of Publications by Year
in descending order

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127	6,914	53660	64668
papers	citations	45 h-index	79 g-index

128	128	128	5217
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Peptide-Enabled Nanocomposites Offer Biomimetic Reconstruction of Silver Diamine Fluoride-Treated Dental Tissues. Polymers, 2022, 14, 1368.	2.0	6
2	Minimal Amelogenin Domain for Enamel Formation. Jom, 2021, 73, 1696-1704.	0.9	1
3	Mitigation of Peri-implantitis by Rational Design of Bifunctional Peptides with Antimicrobial Properties. ACS Biomaterials Science and Engineering, 2020, 6, 2682-2695.	2.6	37
4	An Msx2-Sp6-Follistatin Pathway Operates During Late Stages of Tooth Development to Control Amelogenesis. Frontiers in Physiology, 2020, 11, 582610.	1.3	10
5	Repeatedly Applied Peptide Film Kills Bacteria on Dental Implants. Jom, 2019, 71, 1271-1280.	0.9	24
6	Mechanics of amelogenin TRAP protein in the proximity of hydroxyapatite mineral is altered by interfacial water. Chemical Physics, 2019, 522, 104-111.	0.9	2
7	Transcriptomic analysis of MicroRNA expression in enamel-producing cells. Gene, 2019, 688, 193-203.	1.0	3
8	MiR-153 Regulates Amelogenesis by Targeting Endocytotic and Endosomal/lysosomal Pathwaysâ€“Novel Insight into the Origins of Enamel Pathologies. Scientific Reports, 2017, 7, 44118.	1.6	9
9	Optimizing concentration of titanium tetrafluoride solution for human dentine remineralization. Archives of Oral Biology, 2017, 83, 7-12.	0.8	9
10	Supramolecular Nanofibers Enhance Growth Factor Signaling by Increasing Lipid Raft Mobility. Nano Letters, 2016, 16, 3042-3050.	4.5	32
11	Controlling the Biomimetic Implant Interface: Modulating Antimicrobial Activity by Spacer Design. Journal of Molecular and Engineering Materials, 2016, 04, 1640005.	0.9	26
12	LS8 cell apoptosis induced by NaF through p-ERK and p-JNK â€“ a mechanism study of dental fluorosis. Acta Odontologica Scandinavica, 2016, 74, 539-549.	0.9	14
13	Biosilver nanoparticle interface offers improved cell viability. Surface Innovations, 2016, 4, 121-132.	1.4	16
14	Recombinant Amelogenin Protein Induces Apical Closure and Pulp Regeneration in Open-apex, Nonvital Permanent Canine Teeth. Journal of Endodontics, 2016, 42, 402-412.	1.4	11
15	Functional Study of Ectodysplasin-A Mutations Causing Non-Syndromic Tooth Agenesis. PLoS ONE, 2016, 11, e0154884.	1.1	17
16	Hypoxia increases the expression of enamel genes and cytokines in an ameloblastâ€derived cell line. European Journal of Oral Sciences, 2015, 123, 335-340.	0.7	11
17	Bioactive nanofibers enable the identification of thrombospondin 2 as a key player in enamel regeneration. Biomaterials, 2015, 61, 216-228.	5.7	12
18	Regulation of the Stem Cellâ€“Host Immune System Interplay Using Hydrogel Coencapsulation System with an Antiâ€Inflammatory Drug. Advanced Functional Materials, 2015, 25, 2296-2307.	7.8	66

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19	Bio-inspired hard-to-soft interface for implant integration to bone. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 431-434.	1.7	25
20	Biomineralization of a Self-assembled, Soft-Matrix Precursor: Enamel. Jom, 2015, 67, 788-795.	0.9	11
21	Chimeric Peptides as Implant Functionalization Agents for Titanium Alloy Implants with Antimicrobial Properties. Jom, 2015, 67, 754-766.	0.9	62
22	Biofunctionalized Ceramic with Self-Assembled Networks of Nanochannels. ACS Nano, 2015, 9, 4447-4457.	7.3	15
23	Proline-Rich Peptide Mimics Effects of Enamel Matrix Derivative on Rat Oral Mucosa Incisional Wound Healing. Journal of Periodontology, 2015, 86, 1386-1395.	1.7	17
24	Protein Interaction between Ameloblastin and Proteasome Subunit Î± Type 3 Can Facilitate Redistribution of Ameloblastin Domains within Forming Enamel. Journal of Biological Chemistry, 2015, 290, 20661-20673.	1.6	6
25	High-fluoride promoted phagocytosis-induced apoptosis in a matured ameloblast-like cell line. Archives of Oral Biology, 2015, 60, 84-90.	0.8	10
26	Comparison of two mouse ameloblast-like cell lines for enamel-specific gene expression. Frontiers in Physiology, 2014, 5, 277.	1.3	36
27	A model for the molecular underpinnings of tooth defects in Axenfeldâ€“Rieger syndrome. Human Molecular Genetics, 2014, 23, 194-208.	1.4	26
28	Application of stem cells derived from the periodontal ligament orÂgingival tissue sources for tendon tissue regeneration. Biomaterials, 2014, 35, 2642-2650.	5.7	111
29	Concise Review: Mesenchymal Stromal Cells Used for Periodontal Regeneration: A Systematic Review. Stem Cells Translational Medicine, 2014, 3, 768-774.	1.6	46
30	Dental mesenchymal stem cells encapsulated in an alginate hydrogel co-delivery microencapsulation system for cartilage regeneration. Acta Biomaterialia, 2013, 9, 9343-9350.	4.1	96
31	Co-encapsulation of anti-BMP2 monoclonal antibody and mesenchymal stem cells in alginate microspheres for bone tissue engineering. Biomaterials, 2013, 34, 6572-6579.	5.7	121
32	The Circadian Clock Modulates Enamel Development. Journal of Biological Rhythms, 2012, 27, 237-245.	1.4	91
33	Cementomimeticsâ€”constructing a cementum-like biomineralized microlayer via amelogenin-derived peptides. International Journal of Oral Science, 2012, 4, 69-77.	3.6	52
34	The Role of Nanoscale Architecture in Supramolecular Templating of Biomimetic Hydroxyapatite Mineralization. Small, 2012, 8, 2195-2202.	5.2	68
35	Biomimetic Mineralization: The Role of Nanoscale Architecture in Supramolecular Templating of Biomimetic Hydroxyapatite Mineralization (Small 14/2012). Small, 2012, 8, 2194-2194.	5.2	1
36	Identification of novel candidate genes involved in mineralization of dental enamel by genomeâ€wide transcript profiling. Journal of Cellular Physiology, 2012, 227, 2264-2275.	2.0	94

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37	Targeted Overexpression of Amelotin Disrupts the Microstructure of Dental Enamel. PLoS ONE, 2012, 7, e35200.	1.1	59
38	Ameloblastin expression and putative autoregulation in mesenchymal cells suggest a role in early bone formation and repair. Bone, 2011, 48, 406-413.	1.4	41
39	Epithelialâ€specific knockout of the Rac1 gene leads to enamel defects. European Journal of Oral Sciences, 2011, 119, 168-176.	0.7	16
40	Ameloblastin upstream region contains structural elements regulating transcriptional activity in a stromal cell line derived from bone marrow. European Journal of Oral Sciences, 2011, 119, 286-292.	0.7	6
41	The role of cell surface markers and enamel matrix derivatives on human periodontal ligament mesenchymal progenitor responses inÂvitro. Biomaterials, 2011, 32, 7375-7388.	5.7	32
42	A simplified genetic design for mammalian enamel. Biomaterials, 2011, 32, 3151-3157.	5.7	20
43	The influence of Leucine-rich amelogenin peptide on MSC fate by inducing Wnt10b expression. Biomaterials, 2011, 32, 6478-6486.	5.7	31
44	PERP regulates enamel formation via effects on cellâ€“cell adhesion and gene expression. Journal of Cell Science, 2011, 124, 745-754.	1.2	36
45	Folding, Assembly, and Aggregation of Recombinant Murine Amelogenins with T21I and P41T Point Mutations. Cells Tissues Organs, 2011, 194, 284-290.	1.3	13
46	Structural Analysis of a Repetitive Protein Sequence Motif in Strepsirrhine Primate Amelogenin. PLoS ONE, 2011, 6, e18028.	1.1	9
47	Full length amelogenin binds to cell surface LAMP-1 on tooth root/periodontium associated cells. Archives of Oral Biology, 2010, 55, 417-425.	0.8	31
48	Biological synthesis of tooth enamel instructed by an artificial matrix. Biomaterials, 2010, 31, 9202-9211.	5.7	84
49	Perturbed Amelogenin Secondary Structure Leads to Uncontrolled Aggregation in Amelogenesis Imperfecta Mutant Proteins. Journal of Biological Chemistry, 2010, 285, 40593-40603.	1.6	29
50	Science Is the Fuel for the Engine of Technology and Clinical Practice. Journal of the American Dental Association, 2009, 140, 17S-24S.	0.7	13
51	Leucine-rich amelogenin peptide induces osteogenesis by activation of the Wnt pathway. Biochemical and Biophysical Research Communications, 2009, 387, 558-563.	1.0	42
52	The Ultrastructural and Mechanical Analysis of the Dentition of Mice Lacking the NBCe1 Na+/HCO3â€• Cotransporter. FASEB Journal, 2009, 23, 800.6.	0.2	1
53	Biglycan Overexpression on Tooth Enamel Formation in Transgenic Mice. Anatomical Record, 2008, 291, 1246-1253.	0.8	9
54	Bioactive Nanofibers Instruct Cells to Proliferate and Differentiate During Enamel Regeneration. Journal of Bone and Mineral Research, 2008, 23, 1995-2006.	3.1	123

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55	Leucine-rich amelogenin peptide induces osteogenesis in mouse embryonic stem cells. Biochemical and Biophysical Research Communications, 2008, 367, 1-6.	1.0	56
56	Derivation of cranial neural crest-like cells from human embryonic stem cells. Biochemical and Biophysical Research Communications, 2008, 376, 542-547.	1.0	45
57	Wholeâ€Tooth Regeneration: It Takes a Village of Scientists, Clinicians, and Patients. Journal of Dental Education, 2008, 72, 903-911.	0.7	22
58	Whole-tooth regeneration: it takes a village of scientists, clinicians, and patients. Journal of Dental Education, 2008, 72, 903-11.	0.7	15
59	CCAAT/Enhancer-binding Protein Î´ (C/EBPÎ´) Maintains Amelogenin Expression in the Absence of C/EBPÎ± in Vivo. Journal of Biological Chemistry, 2007, 282, 29882-29889.	1.6	19
60	Ectopic Expression of Dentin Sialoprotein during Amelogenesis Hardens Bulk Enamel. Journal of Biological Chemistry, 2007, 282, 5340-5345.	1.6	43
61	Determination of protein regions responsible for interactions of amelogenin with CD63 and LAMP1. Biochemical Journal, 2007, 408, 347-354.	1.7	39
62	Physical dissection of the CCAAT/enhancer-binding protein Î± in regulating the mouse amelogenin gene. Biochemical and Biophysical Research Communications, 2007, 354, 56-61.	1.0	19
63	The nucleation and growth of calcium phosphate by amelogenin. Journal of Crystal Growth, 2007, 304, 407-415.	0.7	82
64	Proteinâ€“Protein Interactions of the Developing Enamel Matrix. Current Topics in Developmental Biology, 2006, 74, 57-115.	1.0	136
65	Amelogenins regulate expression of genes associated with cementoblasts in vitro. European Journal of Oral Sciences, 2006, 114, 239-243.	0.7	36
66	Protein self-assembly creates a nanoscale device for biomineralization. Materials Science and Engineering C, 2006, 26, 1296-1300.	3.8	22
67	Altering Biomineralization by Protein Design. Journal of Biological Chemistry, 2006, 281, 21173-21182.	1.6	40
68	NF-Y and CCAAT/Enhancer-binding Protein Î± Synergistically Activate the Mouse Amelogenin Gene*. Journal of Biological Chemistry, 2006, 281, 16090-16098.	1.6	34
69	Enamel Matrix Protein Interactions. Journal of Bone and Mineral Research, 2005, 20, 1032-1040.	3.1	69
70	Morphoregulation of teeth: modulating the number, size, shape and differentiation by tuning Bmp activity. Evolution & Development, 2005, 7, 440-457.	1.1	159
71	Fluoride Induces Endoplasmic Reticulum Stress in Ameloblasts Responsible for Dental Enamel Formation. Journal of Biological Chemistry, 2005, 280, 23194-23202.	1.6	147
72	Dentin Sialoprotein and Dentin Phosphoprotein Overexpression during Amelogenesis. Journal of Biological Chemistry, 2005, 280, 31991-31998.	1.6	54

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73	The COOH Terminus of the Amelogenin, LRAP, Is Oriented Next to the Hydroxyapatite Surface. Journal of Biological Chemistry, 2004, 279, 40263-40266.	1.6	131
74	Leucine-Rich Amelogenin Peptide: A Candidate Signaling Molecule During Cementogenesis. Journal of Periodontology, 2004, 75, 1126-1136.	1.7	84
75	Perturbed Amelogenin Protein Self-assembly Alters Nanosphere Properties Resulting in Defective Enamel Formation. Materials Research Society Symposia Proceedings, 2004, 823, W6.2.1.	0.1	1
76	Enamel Structure Properties Controlled by Engineered Proteins in Transgenic Mice. Journal of Bone and Mineral Research, 2003, 18, 2052-2059.	3.1	44
77	Functional Domains for Amelogenin Revealed by Compound Genetic Defects. Journal of Bone and Mineral Research, 2003, 18, 466-472.	3.1	38
78	Amelogenin Protein Exhibits a Modular Design: Implications for Form and Function. Connective Tissue Research, 2003, 44, 47-51.	1.1	50
79	Amelogenin: A Potential Regulator of Cementum-Associated Genes. Journal of Periodontology, 2003, 74, 1423-1431.	1.7	84
80	Microphthalmia Resulting fromMsx2-Induced Apoptosis in the Optic Vesicle. , 2003, 44, 2404.		46
81	Amelogenin Self-Assembly and the Role of the Proline Located within the Carboxyl-Teleopeptide. Connective Tissue Research, 2003, 44, 52-57.	1.1	20
82	A Transgenic Animal Model Resembling Amelogenesis Imperfecta Related to Ameloblastin Overexpression. Journal of Biological Chemistry, 2003, 278, 19447-19452.	1.6	88
83	Amelogenin Protein Exhibits a Modular Design: Implications for Form and Function. Connective Tissue Research, 2003, 44, 47-51.	1.1	13
84	Amelogenin protein exhibits a modular design: implications for form and function. Connective Tissue Research, 2003, 44 Suppl 1, 47-51.	1.1	19
85	Altered Amelogenin Self-assembly Based on Mutations Observed in Human X-linked Amelogenesis Imperfecta (AIH1). Journal of Biological Chemistry, 2002, 277, 17112-17116.	1.6	37
86	Regulated gene expression dictates enamel structure and tooth function. Matrix Biology, 2001, 20, 273-292.	1.5	161
87	Structure-Property Correlation in Genetically-Engineered Mouse Enamel. Microscopy and Microanalysis, 2001, 7, 992-993.	0.2	0
88	The Dentinoâ€enamel Junction is a Broad Transitional Zone Uniting Dissimilar Bioceramic Composites. Journal of the American Ceramic Society, 2000, 83, 238-40.	1.9	86
89	Identification of CCAAT/Enhancer-binding Protein Î± as a Transactivator of the Mouse Amelogenin Gene. Journal of Biological Chemistry, 2000, 275, 12273-12280.	1.6	72
90	A Tuftelin-interacting Protein (TIP39) Localizes to the Apical Secretory Pole of Mouse Ameloblasts. Journal of Biological Chemistry, 2000, 275, 22284-22292.	1.6	40

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91	Functional Antagonism between Msx2 and CCAAT/Enhancer-binding Protein Î± in Regulating the Mouse Amelogenin Gene Expression Is Mediated by Protein-Protein Interaction. Journal of Biological Chemistry, 2000, 275, 29066-29075.	1.6	69
92	Enamel Biomineralization Defects Result from Alterations to Amelogenin Self-Assembly. Journal of Structural Biology, 2000, 132, 191-200.	1.3	110
93	Micro & Nano-Scale Structure of Enamel and Dentin-Enamel Junction of Human Teeth. Microscopy and Microanalysis, 1999, 5, 1010-1011.	0.2	1
94	Cloning and Characterization of the Murine Ameloblastin Promoter. Journal of Biological Chemistry, 1999, 274, 20738-20743.	1.6	34
95	Nano-mechanical properties profiles across dentinâ€“enamel junction of human incisor teeth. Materials Science and Engineering C, 1999, 7, 119-128.	3.8	177
96	Msx2Gene Dosage Influences the Number of Proliferative Osteogenic Cells in Growth Centers of the Developing Murine Skull: A Possible Mechanism forMSX2-Mediated Craniosynostosis in Humans. Developmental Biology, 1999, 205, 260-274.	0.9	194
97	Identification of Tuftelin-and Amelogenin-Interacting Proteins Using the Yeast Two-Hybrid System. Connective Tissue Research, 1998, 38, 257-267.	1.1	26
98	Protein Interactions During Assembly of the Enamel Organic Extracellular Matrix. Journal of Bone and Mineral Research, 1997, 12, 221-227.	3.1	145
99	Carboxyl-Region of Tuftelin Mediates Self-Assembly. Connective Tissue Research, 1996, 35, 157-161.	1.1	15
100	The Murine Amelogenin Promoter: Developmentally Regulated Expression in Transgenic Animals. Connective Tissue Research, 1996, 35, 41-47.	1.1	44
101	Enamel biology logodaedaly: Getting to the root of the problem, or â€œwho's on firstâ€¦â€• Journal of Bone and Mineral Research, 1996, 11, 899-904.	3.1	23
102	Temperature Sensitive Simian Virus 40 Large T Antigen Immortalization of Murine Odontoblast Cell Cultures: Establishment of Clonal Odontoblast Cell Line. Connective Tissue Research, 1995, 33, 97-103.	1.1	99
103	Regulation of the Msx2 homeobox gene during mouse embryogenesis: A transgene with 439 bp of 5â€² flanking sequence is expressed exclusively in the apical ectodermal ridge of the developing limb. Mechanisms of Development, 1994, 48, 187-197.	1.7	72
104	Early Determination and Permissive Expression of Amelogenin Transcription during Mouse Mandibular First Molar Development. Developmental Biology, 1994, 164, 290-299.	0.9	54
105	Murine osteoclasts and spleen cell polykaryons are distinguished by mRNA phenotyping. Journal of Bone and Mineral Research, 1994, 9, 577-584.	3.1	42
106	Genomic Structure, Chromosomal Location, and Evolution of the Mouse Hox 8 Gene. Genomics, 1993, 16, 123-131.	1.3	56
107	A mutation in the homeodomain of the human MSX2 gene in a family affected with autosomal dominant craniosynostosis. Cell, 1993, 75, 443-450.	13.5	658
108	Epidermal Growth Factor Transcription, Translation, and Signal Transduction by Rat Type II Pneumocytes in Culture. American Journal of Respiratory Cell and Molecular Biology, 1992, 6, 44-49.	1.4	72

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109	Autosomal localization of the amelogenin gene in monotremes and marsupials: Implications for mammalian sex chromosome evolution. Genomics, 1992, 14, 785-789.	1.3	28
110	Alternative splicing of the mouse amelogenin primary RNA transcript contributes to amelogenin heterogeneity. Biochemical and Biophysical Research Communications, 1992, 188, 1253-1260.	1.0	115
111	Human ameloblastoma tumors express the amelogenin gene. Oral Surgery, Oral Medicine, and Oral Pathology, 1992, 74, 64-72.	0.6	44
112	Linkage of amelogenin (Amel) to the distal portion of the mouse X chromosome. Genomics, 1991, 10, 23-28.	1.3	57
113	Human developing enamel proteins exhibit a sex-linked dimorphism. Calcified Tissue International, 1991, 48, 288-290.	1.5	56
114	Cartilage, Bone and Tooth Induction During Early Embryonic Mouse Mandibular Morphogenesis Using Serumless, Chemically-Defined Medium. Connective Tissue Research, 1990, 24, 41-51.	1.1	23
115	Guest Editorial: Developmental Biology and Pathobiology: Fusion through Molecular Biology. Journal of Dental Research, 1989, 68, 1790-1791.	2.5	1
116	Of Mice and Men: Anatomy of the Amelogenin Gene. Connective Tissue Research, 1989, 22, 727-735.	1.1	13
117	Amelogenin gene expression in mouse incisor heterotopic recombinations. Differentiation, 1989, 41, 56-61.	1.0	27
118	Amelogenesis in vitro: a model for studies of epithelial postsecretory processing during tissue-specific extracellular matrix biomineralization. Differentiation, 1989, 41, 62-71.	1.0	5
119	Hertwig's epithelial root sheath differentiation and initial cementum and bone formation during long-term organ culture of mouse mandibular first molars using serumless, chemicallydefined medium. Journal of Periodontal Research, 1989, 24, 28-40.	1.4	102
120	Human and mouse amelogenin gene loci are on the sex chromosomes. Genomics, 1989, 4, 162-168.	1.3	289
121	Dental Enamel Biomineralization: A Prospectus. Materials Research Society Symposia Proceedings, 1989, 174, 3.	0.1	0
122	Sequential expression and differential function of multiple enamel proteins during fetal, neonatal, and early postnatal stages of mouse molar organogenesis. Differentiation, 1988, 37, 26-39.	1.0	97
123	Molecular determinants of cranial neural crest-derived odontogenic ectomesenchyme during dentinogenesis. American Journal of Medical Genetics Part A, 1988, 31, 7-22.	2.4	20
124	Factors Influencing the Expression of Dental Extracellular Matrix Biomineralization. Novartis Foundation Symposium, 1988, 136, 22-41.	1.2	4
125	DNA sequence for cloned cDNA for murine amelogenin reveal the amino acid sequence for enamel-specific protein. Biochemical and Biophysical Research Communications, 1985, 129, 812-818.	1.0	214
126	Concepts of epithelial-mesenchymal interactions during development: Tooth and lung organogenesis. Journal of Cellular Biochemistry, 1984, 26, 117-125.	1.2	45

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127	De novo gene expression detected by amelogenin gene transcript analysis. Developmental Biology, 1984, 104, 255-258.	0.9	43