

Malcolm L Snead

List of Publications by Year in descending order

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127
papers

6,914
citations

53660

45
h-index

64668

79
g-index

128
all docs

128
docs citations

128
times ranked

5217
citing authors

#	ARTICLE	IF	CITATIONS
1	A mutation in the homeodomain of the human MSX2 gene in a family affected with autosomal dominant craniosynostosis. <i>Cell</i> , 1993, 75, 443-450.	13.5	658
2	Human and mouse amelogenin gene loci are on the sex chromosomes. <i>Genomics</i> , 1989, 4, 162-168.	1.3	289
3	DNA sequence for cloned cDNA for murine amelogenin reveal the amino acid sequence for enamel-specific protein. <i>Biochemical and Biophysical Research Communications</i> , 1985, 129, 812-818.	1.0	214
4	Msx2 Gene Dosage Influences the Number of Proliferative Osteogenic Cells in Growth Centers of the Developing Murine Skull: A Possible Mechanism for MSX2-Mediated Craniosynostosis in Humans. <i>Developmental Biology</i> , 1999, 205, 260-274.	0.9	194
5	Nano-mechanical properties profiles across dentin-enamel junction of human incisor teeth. <i>Materials Science and Engineering C</i> , 1999, 7, 119-128.	3.8	177
6	Regulated gene expression dictates enamel structure and tooth function. <i>Matrix Biology</i> , 2001, 20, 273-292.	1.5	161
7	Morphoregulation of teeth: modulating the number, size, shape and differentiation by tuning Bmp activity. <i>Evolution & Development</i> , 2005, 7, 440-457.	1.1	159
8	Fluoride Induces Endoplasmic Reticulum Stress in Ameloblasts Responsible for Dental Enamel Formation. <i>Journal of Biological Chemistry</i> , 2005, 280, 23194-23202.	1.6	147
9	Protein Interactions During Assembly of the Enamel Organic Extracellular Matrix. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 221-227.	3.1	145
10	Protein-Protein Interactions of the Developing Enamel Matrix. <i>Current Topics in Developmental Biology</i> , 2006, 74, 57-115.	1.0	136
11	The COOH Terminus of the Amelogenin, LRAP, Is Oriented Next to the Hydroxyapatite Surface. <i>Journal of Biological Chemistry</i> , 2004, 279, 40263-40266.	1.6	131
12	Bioactive Nanofibers Instruct Cells to Proliferate and Differentiate During Enamel Regeneration. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1995-2006.	3.1	123
13	Co-encapsulation of anti-BMP2 monoclonal antibody and mesenchymal stem cells in alginate microspheres for bone tissue engineering. <i>Biomaterials</i> , 2013, 34, 6572-6579.	5.7	121
14	Alternative splicing of the mouse amelogenin primary RNA transcript contributes to amelogenin heterogeneity. <i>Biochemical and Biophysical Research Communications</i> , 1992, 188, 1253-1260.	1.0	115
15	Application of stem cells derived from the periodontal ligament or gingival tissue sources for tendon tissue regeneration. <i>Biomaterials</i> , 2014, 35, 2642-2650.	5.7	111
16	Enamel Biomineralization Defects Result from Alterations to Amelogenin Self-Assembly. <i>Journal of Structural Biology</i> , 2000, 132, 191-200.	1.3	110
17	Hertwig's epithelial root sheath differentiation and initial cementum and bone formation during long-term organ culture of mouse mandibular first molars using serumless, chemically defined medium. <i>Journal of Periodontal Research</i> , 1989, 24, 28-40.	1.4	102
18	Temperature Sensitive Simian Virus 40 Large T Antigen Immortalization of Murine Odontoblast Cell Cultures: Establishment of Clonal Odontoblast Cell Line. <i>Connective Tissue Research</i> , 1995, 33, 97-103.	1.1	99

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19	Sequential expression and differential function of multiple enamel proteins during fetal, neonatal, and early postnatal stages of mouse molar organogenesis. <i>Differentiation</i> , 1988, 37, 26-39.	1.0	97
20	Dental mesenchymal stem cells encapsulated in an alginate hydrogel co-delivery microencapsulation system for cartilage regeneration. <i>Acta Biomaterialia</i> , 2013, 9, 9343-9350.	4.1	96
21	Identification of novel candidate genes involved in mineralization of dental enamel by genome-wide transcript profiling. <i>Journal of Cellular Physiology</i> , 2012, 227, 2264-2275.	2.0	94
22	The Circadian Clock Modulates Enamel Development. <i>Journal of Biological Rhythms</i> , 2012, 27, 237-245.	1.4	91
23	A Transgenic Animal Model Resembling Amelogenesis Imperfecta Related to Ameloblastin Overexpression. <i>Journal of Biological Chemistry</i> , 2003, 278, 19447-19452.	1.6	88
24	The Dentino-enamel Junction is a Broad Transitional Zone Uniting Dissimilar Bioceramic Composites. <i>Journal of the American Ceramic Society</i> , 2000, 83, 238-40.	1.9	86
25	Amelogenin: A Potential Regulator of Cementum-Associated Genes. <i>Journal of Periodontology</i> , 2003, 74, 1423-1431.	1.7	84
26	Leucine-Rich Amelogenin Peptide: A Candidate Signaling Molecule During Cementogenesis. <i>Journal of Periodontology</i> , 2004, 75, 1126-1136.	1.7	84
27	Biological synthesis of tooth enamel instructed by an artificial matrix. <i>Biomaterials</i> , 2010, 31, 9202-9211.	5.7	84
28	The nucleation and growth of calcium phosphate by amelogenin. <i>Journal of Crystal Growth</i> , 2007, 304, 407-415.	0.7	82
29	Epidermal Growth Factor Transcription, Translation, and Signal Transduction by Rat Type II Pneumocytes in Culture. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1992, 6, 44-49.	1.4	72
30	Regulation of the Msx2 homeobox gene during mouse embryogenesis: A transgene with 439 bp of 5' flanking sequence is expressed exclusively in the apical ectodermal ridge of the developing limb. <i>Mechanisms of Development</i> , 1994, 48, 187-197.	1.7	72
31	Identification of CCAAT/Enhancer-binding Protein β as a Transactivator of the Mouse Amelogenin Gene. <i>Journal of Biological Chemistry</i> , 2000, 275, 12273-12280.	1.6	72
32	Functional Antagonism between Msx2 and CCAAT/Enhancer-binding Protein β in Regulating the Mouse Amelogenin Gene Expression Is Mediated by Protein-Protein Interaction. <i>Journal of Biological Chemistry</i> , 2000, 275, 29066-29075.	1.6	69
33	Enamel Matrix Protein Interactions. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 1032-1040.	3.1	69
34	The Role of Nanoscale Architecture in Supramolecular Templating of Biomimetic Hydroxyapatite Mineralization. <i>Small</i> , 2012, 8, 2195-2202.	5.2	68
35	Regulation of the Stem Cell-Host Immune System Interplay Using Hydrogel Coencapsulation System with an Anti-inflammatory Drug. <i>Advanced Functional Materials</i> , 2015, 25, 2296-2307.	7.8	66
36	Chimeric Peptides as Implant Functionalization Agents for Titanium Alloy Implants with Antimicrobial Properties. <i>Jom</i> , 2015, 67, 754-766.	0.9	62

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37	Targeted Overexpression of Amelotin Disrupts the Microstructure of Dental Enamel. PLoS ONE, 2012, 7, e35200.	1.1	59
38	Linkage of amelogenin (Amel) to the distal portion of the mouse X chromosome. Genomics, 1991, 10, 23-28.	1.3	57
39	Human developing enamel proteins exhibit a sex-linked dimorphism. Calcified Tissue International, 1991, 48, 288-290.	1.5	56
40	Genomic Structure, Chromosomal Location, and Evolution of the Mouse Hox 8 Gene. Genomics, 1993, 16, 123-131.	1.3	56
41	Leucine-rich amelogenin peptide induces osteogenesis in mouse embryonic stem cells. Biochemical and Biophysical Research Communications, 2008, 367, 1-6.	1.0	56
42	Early Determination and Permissive Expression of Amelogenin Transcription during Mouse Mandibular First Molar Development. Developmental Biology, 1994, 164, 290-299.	0.9	54
43	Dentin Sialoprotein and Dentin Phosphoprotein Overexpression during Amelogenesis. Journal of Biological Chemistry, 2005, 280, 31991-31998.	1.6	54
44	Cementomimetics“constructing a cementum-like biomineralized microlayer via amelogenin-derived peptides. International Journal of Oral Science, 2012, 4, 69-77.	3.6	52
45	Amelogenin Protein Exhibits a Modular Design: Implications for Form and Function. Connective Tissue Research, 2003, 44, 47-51.	1.1	50
46	Microphthalmia Resulting fromMsx2-Induced Apoptosis in the Optic Vesicle. , 2003, 44, 2404.		46
47	Concise Review: Mesenchymal Stromal Cells Used for Periodontal Regeneration: A Systematic Review. Stem Cells Translational Medicine, 2014, 3, 768-774.	1.6	46
48	Concepts of epithelial-mesenchymal interactions during development: Tooth and lung organogenesis. Journal of Cellular Biochemistry, 1984, 26, 117-125.	1.2	45
49	Derivation of cranial neural crest-like cells from human embryonic stem cells. Biochemical and Biophysical Research Communications, 2008, 376, 542-547.	1.0	45
50	Human ameloblastoma tumors express the amelogenin gene. Oral Surgery, Oral Medicine, and Oral Pathology, 1992, 74, 64-72.	0.6	44
51	The Murine Amelogenin Promoter: Developmentally Regulated Expression in Transgenic Animals. Connective Tissue Research, 1996, 35, 41-47.	1.1	44
52	Enamel Structure Properties Controlled by Engineered Proteins in Transgenic Mice. Journal of Bone and Mineral Research, 2003, 18, 2052-2059.	3.1	44
53	De novo gene expression detected by amelogenin gene transcript analysis. Developmental Biology, 1984, 104, 255-258.	0.9	43
54	Ectopic Expression of Dentin Sialoprotein during Amelogenesis Hardens Bulk Enamel. Journal of Biological Chemistry, 2007, 282, 5340-5345.	1.6	43

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55	Murine osteoclasts and spleen cell polykaryons are distinguished by mRNA phenotyping. <i>Journal of Bone and Mineral Research</i> , 1994, 9, 577-584.	3.1	42
56	Leucine-rich amelogenin peptide induces osteogenesis by activation of the Wnt pathway. <i>Biochemical and Biophysical Research Communications</i> , 2009, 387, 558-563.	1.0	42
57	Ameloblastin expression and putative autoregulation in mesenchymal cells suggest a role in early bone formation and repair. <i>Bone</i> , 2011, 48, 406-413.	1.4	41
58	A Tuftelin-interacting Protein (TIP39) Localizes to the Apical Secretory Pole of Mouse Ameloblasts. <i>Journal of Biological Chemistry</i> , 2000, 275, 22284-22292.	1.6	40
59	Altering Biomineralization by Protein Design. <i>Journal of Biological Chemistry</i> , 2006, 281, 21173-21182.	1.6	40
60	Determination of protein regions responsible for interactions of amelogenin with CD63 and LAMP1. <i>Biochemical Journal</i> , 2007, 408, 347-354.	1.7	39
61	Functional Domains for Amelogenin Revealed by Compound Genetic Defects. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 466-472.	3.1	38
62	Altered Amelogenin Self-assembly Based on Mutations Observed in Human X-linked Amelogenesis Imperfecta (AIH1). <i>Journal of Biological Chemistry</i> , 2002, 277, 17112-17116.	1.6	37
63	Mitigation of Peri-implantitis by Rational Design of Bifunctional Peptides with Antimicrobial Properties. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2682-2695.	2.6	37
64	Amelogenins regulate expression of genes associated with cementoblasts in vitro. <i>European Journal of Oral Sciences</i> , 2006, 114, 239-243.	0.7	36
65	PERP regulates enamel formation via effects on cell-cell adhesion and gene expression. <i>Journal of Cell Science</i> , 2011, 124, 745-754.	1.2	36
66	Comparison of two mouse ameloblast-like cell lines for enamel-specific gene expression. <i>Frontiers in Physiology</i> , 2014, 5, 277.	1.3	36
67	Cloning and Characterization of the Murine Ameloblastin Promoter. <i>Journal of Biological Chemistry</i> , 1999, 274, 20738-20743.	1.6	34
68	NF-Y and CCAAT/Enhancer-binding Protein β Synergistically Activate the Mouse Amelogenin Gene*. <i>Journal of Biological Chemistry</i> , 2006, 281, 16090-16098.	1.6	34
69	The role of cell surface markers and enamel matrix derivatives on human periodontal ligament mesenchymal progenitor responses in vitro. <i>Biomaterials</i> , 2011, 32, 7375-7388.	5.7	32
70	Supramolecular Nanofibers Enhance Growth Factor Signaling by Increasing Lipid Raft Mobility. <i>Nano Letters</i> , 2016, 16, 3042-3050.	4.5	32
71	Full length amelogenin binds to cell surface LAMP-1 on tooth root/periodontium associated cells. <i>Archives of Oral Biology</i> , 2010, 55, 417-425.	0.8	31
72	The influence of Leucine-rich amelogenin peptide on MSC fate by inducing Wnt10b expression. <i>Biomaterials</i> , 2011, 32, 6478-6486.	5.7	31

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73	Perturbed Amelogenin Secondary Structure Leads to Uncontrolled Aggregation in Amelogenesis Imperfecta Mutant Proteins. <i>Journal of Biological Chemistry</i> , 2010, 285, 40593-40603.	1.6	29
74	Autosomal localization of the amelogenin gene in monotremes and marsupials: Implications for mammalian sex chromosome evolution. <i>Genomics</i> , 1992, 14, 785-789.	1.3	28
75	Amelogenin gene expression in mouse incisor heterotopic recombinations. <i>Differentiation</i> , 1989, 41, 56-61.	1.0	27
76	Identification of Tuftelin-and Amelogenin-Interacting Proteins Using the Yeast Two-Hybrid System. <i>Connective Tissue Research</i> , 1998, 38, 257-267.	1.1	26
77	A model for the molecular underpinnings of tooth defects in Axenfeld-Rieger syndrome. <i>Human Molecular Genetics</i> , 2014, 23, 194-208.	1.4	26
78	Controlling the Biomimetic Implant Interface: Modulating Antimicrobial Activity by Spacer Design. <i>Journal of Molecular and Engineering Materials</i> , 2016, 04, 1640005.	0.9	26
79	Bio-inspired hard-to-soft interface for implant integration to bone. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 431-434.	1.7	25
80	Repeatedly Applied Peptide Film Kills Bacteria on Dental Implants. <i>Jom</i> , 2019, 71, 1271-1280.	0.9	24
81	Cartilage, Bone and Tooth Induction During Early Embryonic Mouse Mandibular Morphogenesis Using Serumless, Chemically-Defined Medium. <i>Connective Tissue Research</i> , 1990, 24, 41-51.	1.1	23
82	Enamel biology logodaedaly: Getting to the root of the problem, or "who's on first". <i>Journal of Bone and Mineral Research</i> , 1996, 11, 899-904.	3.1	23
83	Protein self-assembly creates a nanoscale device for biomineralization. <i>Materials Science and Engineering C</i> , 2006, 26, 1296-1300.	3.8	22
84	Whole-Tooth Regeneration: It Takes a Village of Scientists, Clinicians, and Patients. <i>Journal of Dental Education</i> , 2008, 72, 903-911.	0.7	22
85	Molecular determinants of cranial neural crest-derived odontogenic ectomesenchyme during dentinogenesis. <i>American Journal of Medical Genetics Part A</i> , 1988, 31, 7-22.	2.4	20
86	Amelogenin Self-Assembly and the Role of the Proline Located within the Carboxyl-Teleopeptide. <i>Connective Tissue Research</i> , 2003, 44, 52-57.	1.1	20
87	A simplified genetic design for mammalian enamel. <i>Biomaterials</i> , 2011, 32, 3151-3157.	5.7	20
88	CCAAT/Enhancer-binding Protein 1 (C/EBP1) Maintains Amelogenin Expression in the Absence of C/EBP2 in Vivo. <i>Journal of Biological Chemistry</i> , 2007, 282, 29882-29889.	1.6	19
89	Physical dissection of the CCAAT/enhancer-binding protein 1 in regulating the mouse amelogenin gene. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 56-61.	1.0	19
90	Amelogenin protein exhibits a modular design: implications for form and function. <i>Connective Tissue Research</i> , 2003, 44 Suppl 1, 47-51.	1.1	19

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91	Proline-Rich Peptide Mimics Effects of Enamel Matrix Derivative on Rat Oral Mucosa Incisional Wound Healing. <i>Journal of Periodontology</i> , 2015, 86, 1386-1395.	1.7	17
92	Functional Study of Ectodysplasin-A Mutations Causing Non-Syndromic Tooth Agenesis. <i>PLoS ONE</i> , 2016, 11, e0154884.	1.1	17
93	Epithelial-specific knockout of the <i>Rac1</i> gene leads to enamel defects. <i>European Journal of Oral Sciences</i> , 2011, 119, 168-176.	0.7	16
94	Biosilver nanoparticle interface offers improved cell viability. <i>Surface Innovations</i> , 2016, 4, 121-132.	1.4	16
95	Carboxyl-Region of Tuftelin Mediates Self-Assembly. <i>Connective Tissue Research</i> , 1996, 35, 157-161.	1.1	15
96	Biofunctionalized Ceramic with Self-Assembled Networks of Nanochannels. <i>ACS Nano</i> , 2015, 9, 4447-4457.	7.3	15
97	Whole-tooth regeneration: it takes a village of scientists, clinicians, and patients. <i>Journal of Dental Education</i> , 2008, 72, 903-11.	0.7	15
98	LS8 cell apoptosis induced by NaF through p-ERK and p-JNK – a mechanism study of dental fluorosis. <i>Acta Odontologica Scandinavica</i> , 2016, 74, 539-549.	0.9	14
99	Of Mice and Men: Anatomy of the Amelogenin Gene. <i>Connective Tissue Research</i> , 1989, 22, 727-735.	1.1	13
100	Science Is the Fuel for the Engine of Technology and Clinical Practice. <i>Journal of the American Dental Association</i> , 2009, 140, 17S-24S.	0.7	13
101	Folding, Assembly, and Aggregation of Recombinant Murine Amelogenins with T21I and P41T Point Mutations. <i>Cells Tissues Organs</i> , 2011, 194, 284-290.	1.3	13
102	Amelogenin Protein Exhibits a Modular Design: Implications for Form and Function. <i>Connective Tissue Research</i> , 2003, 44, 47-51.	1.1	13
103	Bioactive nanofibers enable the identification of thrombospondin 2 as a key player in enamel regeneration. <i>Biomaterials</i> , 2015, 61, 216-228.	5.7	12
104	Hypoxia increases the expression of enamel genes and cytokines in an ameloblast-derived cell line. <i>European Journal of Oral Sciences</i> , 2015, 123, 335-340.	0.7	11
105	Biom mineralization of a Self-assembled, Soft-Matrix Precursor: Enamel. <i>Jom</i> , 2015, 67, 788-795.	0.9	11
106	Recombinant Amelogenin Protein Induces Apical Closure and Pulp Regeneration in Open-apex, Nonvital Permanent Canine Teeth. <i>Journal of Endodontics</i> , 2016, 42, 402-412.	1.4	11
107	High-fluoride promoted phagocytosis-induced apoptosis in a matured ameloblast-like cell line. <i>Archives of Oral Biology</i> , 2015, 60, 84-90.	0.8	10
108	An <i>Msx2</i> - <i>Sp6</i> - <i>Follistatin</i> Pathway Operates During Late Stages of Tooth Development to Control Amelogenesis. <i>Frontiers in Physiology</i> , 2020, 11, 582610.	1.3	10

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109	Biglycan Overexpression on Tooth Enamel Formation in Transgenic Mice. <i>Anatomical Record</i> , 2008, 291, 1246-1253.	0.8	9
110	MiR-153 Regulates Amelogenesis by Targeting Endocytotic and Endosomal/Lysosomal Pathwaysâ€“Novel Insight into the Origins of Enamel Pathologies. <i>Scientific Reports</i> , 2017, 7, 44118.	1.6	9
111	Optimizing concentration of titanium tetrafluoride solution for human dentine remineralization. <i>Archives of Oral Biology</i> , 2017, 83, 7-12.	0.8	9
112	Structural Analysis of a Repetitive Protein Sequence Motif in Strepsirrhine Primate Amelogenin. <i>PLoS ONE</i> , 2011, 6, e18028.	1.1	9
113	Ameloblastin upstream region contains structural elements regulating transcriptional activity in a stromal cell line derived from bone marrow. <i>European Journal of Oral Sciences</i> , 2011, 119, 286-292.	0.7	6
114	Protein Interaction between Ameloblastin and Proteasome Subunit Î± Type 3 Can Facilitate Redistribution of Ameloblastin Domains within Forming Enamel. <i>Journal of Biological Chemistry</i> , 2015, 290, 20661-20673.	1.6	6
115	Peptide-Enabled Nanocomposites Offer Biomimetic Reconstruction of Silver Diamine Fluoride-Treated Dental Tissues. <i>Polymers</i> , 2022, 14, 1368.	2.0	6
116	Amelogenesis in vitro: a model for studies of epithelial postsecretory processing during tissue-specific extracellular matrix biomineralization. <i>Differentiation</i> , 1989, 41, 62-71.	1.0	5
117	Factors Influencing the Expression of Dental Extracellular Matrix Biomineralization. <i>Novartis Foundation Symposium</i> , 1988, 136, 22-41.	1.2	4
118	Transcriptomic analysis of MicroRNA expression in enamel-producing cells. <i>Gene</i> , 2019, 688, 193-203.	1.0	3
119	Mechanics of amelogenin TRAP protein in the proximity of hydroxyapatite mineral is altered by interfacial water. <i>Chemical Physics</i> , 2019, 522, 104-111.	0.9	2
120	Guest Editorial: Developmental Biology and Pathobiology: Fusion through Molecular Biology. <i>Journal of Dental Research</i> , 1989, 68, 1790-1791.	2.5	1
121	Micro & Nano-Scale Structure of Enamel and Dentin-Enamel Junction of Human Teeth. <i>Microscopy and Microanalysis</i> , 1999, 5, 1010-1011.	0.2	1
122	Perturbed Amelogenin Protein Self-assembly Alters Nanosphere Properties Resulting in Defective Enamel Formation. <i>Materials Research Society Symposia Proceedings</i> , 2004, 823, W6.2.1.	0.1	1
123	Biomimetic Mineralization: The Role of Nanoscale Architecture in Supramolecular Templating of Biomimetic Hydroxyapatite Mineralization (<i>Small</i> 14/2012). <i>Small</i> , 2012, 8, 2194-2194.	5.2	1
124	Minimal Amelogenin Domain for Enamel Formation. <i>Jom</i> , 2021, 73, 1696-1704.	0.9	1
125	The Ultrastructural and Mechanical Analysis of the Dentition of Mice Lacking the NBCe1 Na ⁺ /HCO ₃ ^{â€•} Cotransporter. <i>FASEB Journal</i> , 2009, 23, 800.6.	0.2	1
126	Dental Enamel Biomineralization: A Prospectus. <i>Materials Research Society Symposia Proceedings</i> , 1989, 174, 3.	0.1	0

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127	Structure-Property Correlation in Genetically-Engineered Mouse Enamel. Microscopy and Microanalysis, 2001, 7, 992-993.	0.2	0