

Daniel S Greenspan

List of Publications by Year in descending order

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6742
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#	ARTICLE	IF	CITATIONS
1	Activation of latent myostatin by the BMP-1/tolloid family of metalloproteinases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15842-15846.	7.1	404
2	IL-17 α -dependent cellular immunity to collagen type V predisposes to obliterative bronchiolitis in human lung transplants. Journal of Clinical Investigation, 2007, 117, 3498-3506.	8.2	361
3	Mammalian BMP-1/Tolloid-Related Metalloproteinases, Including Novel Family Member Mammalian Tolloid-Like 2, Have Differential Enzymatic Activities and Distributions of Expression Relevant to Patterning and Skeletogenesis. Developmental Biology, 1999, 213, 283-300.	2.0	313
4	BMP1 controls TGF β 1 activation via cleavage of latent TGF β 2-binding protein. Journal of Cell Biology, 2006, 175, 111-120.	5.2	236
5	The bone morphogenetic protein 1/Tolloid-like metalloproteinases. Matrix Biology, 2007, 26, 508-523.	3.6	226
6	ADAMTSL2 mutations in geleophysic dysplasia demonstrate a role for ADAMTS-like proteins in TGF β 2 bioavailability regulation. Nature Genetics, 2008, 40, 1119-1123.	21.4	211
7	Multiple Bone Morphogenetic Protein 1-related Mammalian Metalloproteinases Process Pro-lysyl Oxidase at the Correct Physiological Site and Control Lysyl Oxidase Activation in Mouse Embryo Fibroblast Cultures. Journal of Biological Chemistry, 2001, 276, 22537-22543.	3.4	208
8	Secreted Frizzled-related protein 2 is a procollagen C proteinase enhancer with a role in fibrosis associated with myocardial infarction. Nature Cell Biology, 2009, 11, 46-55.	10.3	205
9	Bone Morphogenetic Protein 1 Is an Extracellular Processing Enzyme of the Laminin 5 β 2 Chain. Journal of Biological Chemistry, 2000, 275, 22728-22735.	3.4	201
10	A missense mutation in type VII collagen in two affected siblings with recessive dystrophic epidermolysis bullosa. Nature Genetics, 1993, 4, 62-66.	21.4	200
11	Attenuated BMP1 Function Compromises Osteogenesis, Leading to Bone Fragility in Humans and Zebrafish. American Journal of Human Genetics, 2012, 90, 661-674.	6.2	192
12	Structural Organization of the Human Type VII Collagen Gene (COL7A1), Composed of More Exons Than Any Previously Characterized Gene. Genomics, 1994, 21, 169-179.	2.9	176
13	Homologues of Twisted gastrulation are extracellular cofactors in antagonism of BMP signalling. Nature, 2001, 410, 475-478.	27.8	173
14	BMP-1/Tolloid-like Metalloproteases Process Endorepellin, the Angiostatic C-terminal Fragment of Perlecan. Journal of Biological Chemistry, 2005, 280, 7080-7087.	3.4	159
15	Developmental roles of the BMP1/TLD metalloproteinases. Birth Defects Research Part C: Embryo Today Reviews, 2006, 78, 47-68.	3.6	136
16	GDF11 Forms a Bone Morphogenetic Protein 1-Activated Latent Complex That Can Modulate Nerve Growth Factor-Induced Differentiation of PC12 Cells. Molecular and Cellular Biology, 2005, 25, 5846-5858.	2.3	134
17	Bone Morphogenetic Protein-1/Tolloid-like Proteinases Process Dentin Matrix Protein-1. Journal of Biological Chemistry, 2004, 279, 980-986.	3.4	129
18	Mammalian Tolloid Metalloproteinase, and Not Matrix Metalloprotease 2 or Membrane Type 1 Metalloprotease, Processes Laminin-5 in Keratinocytes and Skin. Journal of Biological Chemistry, 2003, 278, 15661-15668.	3.4	128

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19	Bone Morphogenetic Protein-1 Processes Probiglycan. <i>Journal of Biological Chemistry</i> , 2000, 275, 30504-30511.	3.4	126
20	Null Alleles of the COL5A1 Gene of Type V Collagen Are a Cause of the Classical Forms of Ehlers-Danlos Syndrome (Types I and II). <i>American Journal of Human Genetics</i> , 2000, 66, 1757-1765.	6.2	122
21	PCOLCE2 Encodes a Functional Procollagen C-Proteinase Enhancer (PCPE2) That Is a Collagen-binding Protein Differing in Distribution of Expression and Post-translational Modification from the Previously Described PCPE1. <i>Journal of Biological Chemistry</i> , 2002, 277, 49820-49830.	3.4	122
22	A translocation interrupts the COL5A1 gene in a patient with Ehlers-Danlos syndrome and hypomelanosis of Ito. <i>Nature Genetics</i> , 1996, 13, 361-365.	21.4	116
23	Transforming Growth Factor- β 2 Regulation of Bone Morphogenetic Protein-1/Procollagen C-proteinase and Related Proteins in Fibrogenic Cells and Keratinocytes. <i>Journal of Biological Chemistry</i> , 1997, 272, 19059-19066.	3.4	107
24	Proteinases of the Bone Morphogenetic Protein-1 Family Convert Procollagen VII to Mature Anchoring Fibril Collagen. <i>Journal of Biological Chemistry</i> , 2002, 277, 26372-26378.	3.4	105
25	Use of Bmp1 / Tll1 Doubly Homozygous Null Mice and Proteomics To Identify and Validate In Vivo Substrates of Bone Morphogenetic Protein 1/Tolloid-Like Metalloproteinases. <i>Molecular and Cellular Biology</i> , 2003, 23, 4428-4438.	2.3	105
26	Anti-Type V Collagen Humoral Immunity in Lung Transplant Primary Graft Dysfunction. <i>Journal of Immunology</i> , 2008, 181, 5738-5747.	0.8	105
27	Post-translational Proteolytic Processing of Procollagen C-terminal Proteinase Enhancer Releases a Metalloproteinase Inhibitor. <i>Journal of Biological Chemistry</i> , 2000, 275, 1384-1390.	3.4	104
28	Order of Intron Removal Influences Multiple Splice Outcomes, Including a Two-Exon Skip, in a COL5A1 Acceptor-Site Mutation That Results in Abnormal Pro- α 1(V) N-Propeptides and Ehlers-Danlos Syndrome Type I. <i>American Journal of Human Genetics</i> , 2002, 71, 451-465.	6.2	100
29	TIMP-3 inhibits the procollagen N-proteinase ADAMTS-2. <i>Biochemical Journal</i> , 2006, 398, 515-519.	3.7	98
30	Th-17, Monokines, Collagen Type V, and Primary Graft Dysfunction in Lung Transplantation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 660-668.	5.6	95
31	Bone Morphogenetic Protein-1 Processes the NH2-terminal Propeptide, and a Furin-like Proprotein Convertase Processes the COOH-terminal Propeptide of pro- α 1(V) Collagen. <i>Journal of Biological Chemistry</i> , 1998, 273, 27511-27517.	3.4	94
32	Transforming Growth Factor- β 2 Induces Secretion of Activated ADAMTS-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 19549-19557.	3.4	93
33	Strategy for identification of sequence variants in COL7A1 and a novel 2-bp deletion mutation in recessive dystrophic epidermolysis bullosa. <i>Human Mutation</i> , 1997, 10, 408-414.	2.5	88
34	Bone Morphogenetic Protein-1/Tolloid-related Metalloproteinases Process Osteoglycin and Enhance Its Ability to Regulate Collagen Fibrillogenesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 41626-41633.	3.4	88
35	Characterization of a Novel Gene Product (Mammalian Tolloid-like) with High Sequence Similarity to Mammalian Tolloid/Bone Morphogenetic Protein-1. <i>Genomics</i> , 1996, 34, 157-165.	2.9	84
36	Cleavage and Oligomerization of Gliomedin, a Transmembrane Collagen Required for Node of Ranvier Formation. <i>Journal of Biological Chemistry</i> , 2007, 282, 10647-10659.	3.4	84

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37	The Pro- α 3(V) Collagen Chain. <i>Journal of Biological Chemistry</i> , 2000, 275, 8749-8759.	3.4	80
38	Biosynthetic Processing of the Pro- α 1(V) α 2(V) Collagen Heterotrimer by Bone Morphogenetic Protein-1 and Furin-like Proprotein Convertases. <i>Journal of Biological Chemistry</i> , 2002, 277, 5596-5602.	3.4	78
39	Bone morphogenetic protein 1 processes prolactin to a 17-kDa antiangiogenic factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10010-10015.	7.1	75
40	Fibronectin Binds and Enhances the Activity of Bone Morphogenetic Protein 1. <i>Journal of Biological Chemistry</i> , 2009, 284, 25879-25888.	3.4	74
41	IL-17 induces type V collagen overexpression and EMT via TGF- β -dependent pathways in obliterative bronchiolitis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L401-L414.	2.9	74
42	ECM roles in the function of metabolic tissues. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 16-22.	7.1	66
43	Cell-surface Heparan Sulfate Proteoglycans Potentiate Chordin Antagonism of Bone Morphogenetic Protein Signaling and Are Necessary for Cellular Uptake of Chordin. <i>Journal of Biological Chemistry</i> , 2004, 279, 51289-51297.	3.4	65
44	The carboxyl-terminal half of type VII collagen, including the non-collagenous NC-2 domain and intron/exon organization of the corresponding region of the COL7A1 gene. <i>Human Molecular Genetics</i> , 1993, 2, 273-278.	2.9	58
45	Induced ablation of Bmp1 and Tll1 produces osteogenesis imperfecta in mice. <i>Human Molecular Genetics</i> , 2014, 23, 3085-3101.	2.9	58
46	Complete Structural Organization of the Human α 1(V) Collagen Gene (COL5A1): Divergence from the Conserved Organization of Other Characterized Fibrillar Collagen Genes. <i>Genomics</i> , 1995, 29, 588-597.	2.9	56
47	Procollagen C Proteinase Enhancer 1 Genes Are Important Determinants of the Mechanical Properties and Geometry of Bone and the Ultrastructure of Connective Tissues. <i>Molecular and Cellular Biology</i> , 2006, 26, 238-249.	2.3	54
48	α 3(V) Collagen is critical for glucose homeostasis in mice due to effects in pancreatic islets and peripheral tissues. <i>Journal of Clinical Investigation</i> , 2011, 121, 769-783.	8.2	52
49	Spatiotemporal expression patterns of mammalian chordin during postgastrulation embryogenesis and in postnatal brain. , 2000, 217, 449-456.		51
50	Biosynthetic Processing of Collagen Molecules. <i>Topics in Current Chemistry</i> , 0, , 149-183.	4.0	49
51	α 3 Chains of type V collagen regulate breast tumour growth via glypican-1. <i>Nature Communications</i> , 2017, 8, 14351.	12.8	48
52	Comprehensive Mass Spectrometric Mapping of the Hydroxylated Amino Acid residues of the α 1(V) Collagen Chain. <i>Journal of Biological Chemistry</i> , 2012, 287, 40598-40610.	3.4	47
53	Interleukin-17-Dependent Autoimmunity to Collagen Type V in Atherosclerosis. <i>Circulation Research</i> , 2010, 107, 1106-1116.	4.5	44
54	Human collagen gene COL5A1 maps to the q34.2-q34.3 region of chromosome 9, near the locus for nail-patella syndrome. <i>Genomics</i> , 1992, 12, 836-837.	2.9	41

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55	Mouse and Human Homologues of the Yeast Origin of Replication Recognition Complex Subunit ORC2 and Chromosomal Localization of the Cognate Human Gene ORC2L. <i>Genomics</i> , 1996, 31, 119-122.	2.9	41
56	BMP1-like proteinases are essential to the structure and wound healing of skin. <i>Matrix Biology</i> , 2016, 56, 114-131.	3.6	41
57	Reflux-Induced Collagen Type V Sensitization. <i>Chest</i> , 2010, 138, 363-370.	0.8	40
58	Biosynthetic Processing of the Pro- α 1(V)Pro- α 2(V)Pro- α 3(V) Procollagen Heterotrimer. <i>Journal of Biological Chemistry</i> , 2004, 279, 30904-30912.	3.4	39
59	Deficits in Col5a2 Expression Result in Novel Skin and Adipose Abnormalities and Predisposition to Aortic Aneurysms and Dissections. <i>American Journal of Pathology</i> , 2017, 187, 2300-2311.	3.8	38
60	COL5A1: fine genetic mapping and exclusion as candidate gene in families with nail-patella syndrome, tuberous sclerosis 1, hereditary hemorrhagic telangiectasia, and Ehlers-Danlos syndrome type II. <i>Genomics</i> , 1995, 25, 737-739.	2.9	36
61	Inhibition of Bone Morphogenetic Protein 1 by Native and Altered Forms of α 2-Macroglobulin. <i>Journal of Biological Chemistry</i> , 2006, 281, 39096-39104.	3.4	36
62	Coding Sequence and Expression Patterns of Mouse Chordin and Mapping of the Cognate MouseChrd and HumanCHRD Genes. <i>Genomics</i> , 1998, 52, 236-239.	2.9	35
63	Metalloproteinases in Drosophila to Humans That Are Central Players in Developmental Processes. <i>Journal of Biological Chemistry</i> , 2011, 286, 41905-41911.	3.4	32
64	Structural Organization and Genetic Localization of the Human Bone Morphogenetic Protein 1/Mammalian Tolloid Gene. <i>Genomics</i> , 1995, 29, 9-15.	2.9	30
65	bmp1 and mini fin are functionally redundant in regulating formation of the zebrafish dorsoventral axis. <i>Mechanisms of Development</i> , 2006, 123, 548-558.	1.7	30
66	Bone Morphogenetic Protein 1 Prodomain Specifically Binds and Regulates Signaling by Bone Morphogenetic Proteins 2 and 4. <i>Journal of Biological Chemistry</i> , 2007, 282, 9053-9062.	3.4	30
67	Simian virus 40 large T antigen isoelectric focuses as multiple species with varying phosphate content. <i>Virology</i> , 1979, 99, 413-416.	2.4	29
68	Low Resolution Structure Determination Shows Procollagen C-Proteinase Enhancer to be an Elongated Multidomain Glycoprotein. <i>Journal of Biological Chemistry</i> , 2003, 278, 7199-7205.	3.4	29
69	Mammalian Tolloid-like 1 Binds Procollagen C-proteinase Enhancer Protein 1 and Differs from Bone Morphogenetic Protein 1 in the Functional Roles of Homologous Protein Domains. <i>Journal of Biological Chemistry</i> , 2006, 281, 10786-10798.	3.4	26
70	Zebrafish chordin-like and chordin are functionally redundant in regulating patterning of the dorsoventral axis. <i>Developmental Biology</i> , 2010, 341, 444-458.	2.0	26
71	Bone Morphogenetic Protein-1 Processes Insulin-like Growth Factor-binding Protein 3. <i>Journal of Biological Chemistry</i> , 2011, 286, 29014-29025.	3.4	25
72	Mutational analysis of the BMP-1 gene in patients with gastroschisis. <i>Journal of Pediatric Surgery</i> , 2001, 36, 885-887.	1.6	23

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73	HLA-JY328: Mapping studies and expression of a polymorphic HLA class I gene. <i>Immunogenetics</i> , 1986, 23, 90-99.	2.4	22
74	Homozygosity and Heterozygosity for Null Col5a2 Alleles Produce Embryonic Lethality and a Novel Classic Ehlers-Danlos Syndrome-Related Phenotype. <i>American Journal of Pathology</i> , 2015, 185, 2000-2011.	3.8	22
75	Mucosal Administration of Collagen V Ameliorates the Atherosclerotic Plaque Burden by Inducing Interleukin 35-dependent Tolerance. <i>Journal of Biological Chemistry</i> , 2016, 291, 3359-3370.	3.4	21
76	Characterization of the six zebrafish clade B fibrillar procollagen genes, with evidence for evolutionarily conserved alternative splicing within the pro- α 1(V) C-propeptide. <i>Matrix Biology</i> , 2010, 29, 261-275.	3.6	20
77	Strategy for identification of sequence variants in COL7A1 and a novel 2 \times bp deletion mutation in recessive dystrophic epidermolysis bullosa. <i>Human Mutation</i> , 1997, 10, 408-414.	2.5	20
78	Essential Roles of Bone Morphogenetic Protein-1 and Mammalian Tolloid-like 1 in Postnatal Root Dentin Formation. <i>Journal of Endodontics</i> , 2017, 43, 109-115.	3.1	19
79	Structural Organization and Expression Patterns of the Human and Mouse Genes for the Type I Procollagen COOH-Terminal Proteinase Enhancer Protein. <i>Genomics</i> , 1999, 55, 229-234.	2.9	18
80	PCOLCE deletion and expression analyses in uterine leiomyomata. <i>Cancer Genetics and Cytogenetics</i> , 2002, 137, 133-137.	1.0	18
81	WBSCR16 Is a Guanine Nucleotide Exchange Factor Important for Mitochondrial Fusion. <i>Cell Reports</i> , 2017, 20, 923-934.	6.4	16
82	Distribution and synthesis of type VII collagen in oral squamous cell carcinoma. <i>Journal of Oral Pathology and Medicine</i> , 1997, 26, 414-418.	2.7	14
83	Fine Mapping of the Human and Mouse Genes for the Type I Procollagen COOH-Terminal Proteinase Enhancer Protein. <i>Genomics</i> , 1996, 31, 253-256.	2.9	13
84	Procollagen C-proteinase enhancer 1 (PCPE-1) functions as an anti-angiogenic factor and enhances epithelial recovery in injured cornea. <i>Cell and Tissue Research</i> , 2017, 370, 461-476.	2.9	13
85	Proteolysis of the low density lipoprotein receptor by bone morphogenetic protein-1 regulates cellular cholesterol uptake. <i>Scientific Reports</i> , 2019, 9, 11416.	3.3	13
86	Expression of α 2 type I collagen in W8 cells increases cell adhesion and decreases colony formation in soft agar. <i>Matrix Biology</i> , 1994, 14, 21-30.	3.6	11
87	Precise Spatiotemporal Control of Nodal Na ⁺ Channel Clustering by Bone Morphogenetic Protein-1/Tolloid-like Proteinases. <i>Neuron</i> , 2020, 106, 806-815.e6.	8.1	9
88	Absence of apparent disease causing mutations in <i>COL5A3</i> in 13 patients with hypermobility Ehlers-Danlos syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2008, 146A, 3240-3241.	1.2	7
89	Donor HLA-DR Drives the Development of De Novo Autoimmunity Following Lung and Heart Transplantation. <i>Transplantation Direct</i> , 2020, 6, e607.	1.6	5
90	Proteinase bone morphogenetic protein 1, but not tolloid-like 1, plays a dominant role in maintaining periodontal homeostasis. <i>Journal of Periodontology</i> , 2021, 92, 1018-1029.	3.4	4

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91	Cardiovascular Function and Structure are Preserved Despite Induced Ablation of BMP1-Related Proteinases. Cellular and Molecular Bioengineering, 2018, 11, 255-266.	2.1	2
92	From Genes to Genomes: Concepts and Applications of DNA Technology. Jeremy W. Dale and Malcolm von Schantz. Chichester, West Sussex, United Kingdom: John Wiley & Sons Ltd, 2002, 270 pp., \$39.95, softcover. ISBN 0-471-49783-5.. Clinical Chemistry, 2003, 49, 2115-2116.	3.2	1
93	Mammalian tolloid-like peptidases. , 2004, , 621-623.		1
94	Overview of ADAMTS Proteinases and ADAMTS 2. , 2005, , 261-282.		0