Stephen G Young

List of Publications by Year in Descending Order

176 papers	9,814 citations	56 h-index	93 g-index
188 ext. papers	11,190 ext. citations	9 avg, IF	5.85 L-index

#	Paper	IF	Citations
176	The intrinsic instability of the hydrolase domain of lipoprotein lipase facilitates its inactivation by ANGPTL4-catalyzed unfolding. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	12
175	GPIHBP1 and ANGPTL4 Utilize Protein Disorder to Orchestrate Order in Plasma Triglyceride Metabolism and Regulate Compartmentalization of LPL Activity. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 702508	5.7	5
174	High-resolution visualization and quantification of nucleic acid-based therapeutics in cells and tissues using Nanoscale secondary ion mass spectrometry (NanoSIMS). *Nucleic Acids Research*, **2021**, 49, 1-14	20.1	6
173	ANGPTL4 sensitizes lipoprotein lipase to PCSK3 cleavage by catalyzing its unfolding. *Journal of Lipid Research*, **2021**, 62, 100071	6.3	4
172	Peroxidasin-mediated bromine enrichment of basement membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15827-15836	11.5	8
171	Unfolding of monomeric lipoprotein lipase by ANGPTL4: Insight into the regulation of plasma triglyceride metabolism. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 4337-4346	11.5	28
170	Intermittent chylomicronemia caused by intermittent GPIHBP1 autoantibodies. *Journal of Clinical Lipidology*, **2020**, 14, 197-200	4.9	5
169	Deficiency in ZMPSTE24 and resulting farnesyl-prelamin A accumulation only modestly affect mouse adipose tissue stores. *Journal of Lipid Research*, **2020**, 61, 413-421	6.3	1
168	Acoustofluidic sonoporation for gene delivery to human hematopoietic stem and progenitor cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10976-10982	11.5	35
167	Cultured macrophages transfer surplus cholesterol into adjacent cells in the absence of serum or high-density lipoproteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10476-10483	11.5	9
166	Chylomicronemia From GPIHBP1 Autoantibodies Successfully Treated With Rituximab: A Case Report. *Annals of Internal Medicine*, **2020**, 173, 764-765	8	5
165	Aster Proteins Regulate the Accessible Cholesterol Pool in the Plasma Membrane. *Molecular and Cellular Biology*, **2020**, 40,	4.8	18
164	The structural basis for monoclonal antibody 5D2 binding to the tryptophan-rich loop of lipoprotein lipase. *Journal of Lipid Research*, **2020**, 61, 1347-1359	6.3	5
163	Nuclear membrane ruptures, cell death, and tissue damage in the setting of nuclear lamin deficiencies. *Nucleus*, **2020**, 11, 237-249	3.9	4
162	Chylomicronemia from GPIHBP1 autoantibodies. *Journal of Lipid Research*, **2020**, 61, 1365-1376	6.3	5
161	Gene Trapped Mice: PMP34 Plays a Role in the Peroxisomal Degradation of Phytanic and Pristanic Acid. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 144	5.7	9
160	Correlative Live-Cell, Electron Microscopy and Nanoscale Secondary Ion Mass Spectrometry Elucidates the Mechanism for the Release of Cholesterol-Rich Particles from the Plasma Membrane of Macrophages. *Microscopy and Microanalysis*, **2019**, 25, 1028-1029	0.5	

159	Evolution and Medical Significance of LU Domain-Containing Proteins. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	15
158	Lipoprotein lipase is active as a monomer. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6319-6328	11.5	38
157	DYT1 Dystonia Patient-Derived Fibroblasts Have Increased Deformability and Susceptibility to Damage by Mechanical Forces. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 103	5.7	9
156	GPIHBP1 and Lipoprotein Lipase, Partners in Plasma Triglyceride Metabolism. *Cell Metabolism*, **2019**, 30, 51-65	24.6	41
155	GPIHBP1 expression in gliomas promotes utilization of lipoprotein-derived nutrients. *ELife*, **2019**, 8,	8.9	7
154	Release of cholesterol-rich particles from the macrophage plasma membrane during movement of filopodia and lamellipodia. *ELife*, **2019**, 8,	8.9	17
153	Concentric organization of A- and B-type lamins predicts their distinct roles in the spatial organization and stability of the nuclear lamina. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 4307-4315	11.5	45
152	An absence of lamin B1 in migrating neurons causes nuclear membrane ruptures and cell death. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 25870-25879	11.5	30
151	GPIHBP1 autoantibody syndrome during interferon β1a treatment. *Journal of Clinical Lipidology*, **2019**, 13, 62-69	4.9	9
150	An upstream enhancer regulates expression in a tissue-specific manner. *Journal of Lipid Research*, **2019**, 60, 869-879	6.3	5
149	Structure of the lipoprotein lipase-GPIHBP1 complex that mediates plasma triglyceride hydrolysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 1723-1732	11.5	43
148	Impaired thermogenesis and sharp increases in plasma triglyceride levels in GPIHBP1-deficient mice during cold exposure. *Journal of Lipid Research*, **2018**, 59, 706-713	6.3	7
147	NanoSIMS Analysis of Intravascular Lipolysis and Lipid Movement across Capillaries and into Cardiomyocytes. *Cell Metabolism*, **2018**, 27, 1055-1066.e3	24.6	38
146	Palmoplantar keratoderma in Slurp1/Slurp2 double-knockout mice. *Journal of Dermatological Science*, **2018**, 89, 85-87	4.3	1
145	Correlative Electron Microscopy and NanoSIMS Analysis for Lipid Studies. *Microscopy and Microanalysis*, **2018**, 24, 360-361	0.5	1
144	Macrophages release plasma membrane-derived particles rich in accessible cholesterol. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8499-E8508	11.5	25
143	A disordered acidic domain in GPIHBP1 harboring a sulfated tyrosine regulates lipoprotein lipase. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E6020-E6029	11.5	31
142	Prelamin A causes aberrant myonuclear arrangement and results in muscle fiber weakness. *JCI Insight*, **2018**, 3,	9.9	9

141	An enzyme-linked immunosorbent assay for measuring GPIHBP1 levels in human plasma or serum. *Journal of Clinical Lipidology*, **2018**, 12, 203-210.e1	4.9	11
140	IL-10 Signaling Remodels Adipose Chromatin Architecture to Limit Thermogenesis and Energy Expenditure. *Cell*, **2018**, 172, 218-233.e17	56.2	74
139	An ELISA for quantifying GPIHBP1 autoantibodies and making a diagnosis of the GPIHBP1 autoantibody syndrome. *Clinica Chimica Acta*, **2018**, 487, 174-178	6.2	7
138	Disrupting the LINC complex in smooth muscle cells reduces aortic disease in a mouse model of Hutchinson-Gilford progeria syndrome. *Science Translational Medicine*, **2018**, 10,	17.5	35
137	Fibroblasts lacking nuclear lamins do not have nuclear blebs or protrusions but nevertheless have frequent nuclear membrane ruptures. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10100-10105	11.5	34
136	NanoSIMS imaging reveals unexpected heterogeneity in nutrient uptake by brown adipocytes. *Biochemical and Biophysical Research Communications*, **2018**, 504, 899-902	3.4	8
135	Aster Proteins Facilitate Nonvesicular Plasma Membrane to ER Cholesterol Transport in Mammalian Cells. *Cell*, **2018**, 175, 514-529.e20	56.2	116
134	NanoSIMS imaging: an approach for visualizing and quantifying lipids in cells and tissues. *Journal of Investigative Medicine*, **2017**, 65, 669-672	2.9	19
133	High-resolution imaging and quantification of plasma membrane cholesterol by NanoSIMS. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 2000-2005	11.5	59
132	Lamin B1 is required for mature neuron-specific gene expression during olfactory sensory neuron differentiation. *Nature Communications*, **2017**, 8, 15098	17.4	16
131	A hypomorphic Egfr allele does not ameliorate the palmoplantar keratoderma caused by SLURP1 deficiency. *Experimental Dermatology*, **2017**, 26, 1134-1136	4	1
130	Mutating a conserved cysteine in GPIHBP1 reduces amounts of GPIHBP1 in capillaries and abolishes LPL binding. *Journal of Lipid Research*, **2017**, 58, 1453-1461	6.3	11
129	GPIHBP1 autoantibodies in a patient with unexplained chylomicronemia. *Journal of Clinical Lipidology*, **2017**, 11, 964-971	4.9	19
128	Autoantibodies against GPIHBP1 as a Cause of Hypertriglyceridemia. *New England Journal of Medicine*, **2017**, 376, 1647-1658	59.2	87
127	Apolipoprotein C-III inhibits triglyceride hydrolysis by GPIHBP1-bound LPL. *Journal of Lipid Research* , **2017**, 58, 1893-1902	6.3	28
126	Mobility of "HSPG-bound" LPL explains how LPL is able to reach GPIHBP1 on capillaries. *Journal of Lipid Research*, **2017**, 58, 216-225	6.3	27
125	Monoclonal antibodies that bind to the Ly6 domain of GPIHBP1 abolish the binding of LPL. *Journal of Lipid Research*, **2017**, 58, 208-215	6.3	15
124	Lipoprotein lipase reaches the capillary lumen in chickens despite an apparent absence of GPIHBP1. *JCI Insight*, **2017**, 2,	9.9	6

123	Mass spectrometry captures off-target drug binding and provides mechanistic insights into the human metalloprotease ZMPSTE24. *Nature Chemistry*, **2016**, 8, 1152-1158	17.6	49
122	An LPL-specific monoclonal antibody, 88B8, that abolishes the binding of LPL to GPIHBP1. *Journal of Lipid Research*, **2016**, 57, 1889-1898	6.3	7
121	LMNA missense mutations causing familial partial lipodystrophy do not lead to an accumulation of prelamin A. *Nucleus*, **2016**, 7, 512-521	3.9	4
120	SREBP-2-deficient and hypomorphic mice reveal roles for SREBP-2 in embryonic development and SREBP-1c expression. *Journal of Lipid Research*, **2016**, 57, 410-21	6.3	31
119	Modulation of LMNA splicing as a strategy to treat prelamin A diseases. *Journal of Clinical Investigation*, **2016**, 126, 1592-602	15.9	50
118	The acidic domain of the endothelial membrane protein GPIHBP1 stabilizes lipoprotein lipase activity by preventing unfolding of its catalytic domain. *ELife*, **2016**, 5, e12095	8.9	60
117	The angiopoietin-like protein ANGPTL4 catalyzes unfolding of the hydrolase domain in lipoprotein lipase and the endothelial membrane protein GPIHBP1 counteracts this unfolding. *ELife*, **2016**, 5,	8.9	58
116	Lamin B1 and lamin B2 are long-lived proteins with distinct functions in retinal development. *Molecular Biology of the Cell*, **2016**, 27, 1928-37	3.5	18
115	Multiparameter mechanical and morphometric screening of cells. *Scientific Reports*, **2016**, 6, 37863	4.9	31
114	Palmoplantar Keratoderma in Slurp2-Deficient Mice. *Journal of Investigative Dermatology*, **2016**, 136, 436-443	4.3	14
113	Angiopoietin-like 4 promotes intracellular degradation of lipoprotein lipase in adipocytes. *Journal of Lipid Research*, **2016**, 57, 1670-83	6.3	70
112	Deficiency of Isoprenylcysteine Carboxyl Methyltransferase (ICMT) Leads to Progressive Loss of Photoreceptor Function. *Journal of Neuroscience*, **2016**, 36, 5107-14	6.6	7
111	GPIHBP1 and Plasma Triglyceride Metabolism. *Trends in Endocrinology and Metabolism*, **2016**, 27, 455-469	8.8	56
110	GPIHBP1 missense mutations often cause multimerization of GPIHBP1 and thereby prevent lipoprotein lipase binding. *Circulation Research*, **2015**, 116, 624-32	15.7	45
109	Nuclear envelope protein Lem2 is required for mouse development and regulates MAP and AKT kinases. *PLoS ONE*, **2015**, 10, e0116196	3.7	25
108	JCL Roundtable: Hypertriglyceridemia due to defects in lipoprotein lipase function. *Journal of Clinical Lipidology*, **2015**, 9, 274-80	4.9	11
107	Mice that express farnesylated versions of prelamin A in neurons develop achalasia. *Human Molecular Genetics*, **2015**, 24, 2826-40	5.6	7
106	Lpcat3-dependent production of arachidonoyl phospholipids is a key determinant of triglyceride secretion. *ELife*, **2015**, 4,	8.9	94

105	Equivalent binding of wild-type lipoprotein lipase (LPL) and S447X-LPL to GPIHBP1, the endothelial cell LPL transporter. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 963-9	5	10
104	Nuclear lamins and neurobiology. *Molecular and Cellular Biology*, **2014**, 34, 2776-85	4.8	39
103	The LXR-Idol axis differentially regulates plasma LDL levels in primates and mice. *Cell Metabolism*, **2014**, 20, 910-918	24.6	60
102	High-resolution imaging of dietary lipids in cells and tissues by NanoSIMS analysis. *Journal of Lipid Research*, **2014**, 55, 2156-66	6.3	34
101	Palmoplantar keratoderma along with neuromuscular and metabolic phenotypes in Slurp1-deficient mice. *Journal of Investigative Dermatology*, **2014**, 134, 1589-1598	4.3	31
100	Lipin-1 and lipin-3 together determine adiposity in vivo. *Molecular Metabolism*, **2014**, 3, 145-54	8.8	38
99	New Lmna knock-in mice provide a molecular mechanism for the ‘segmental aging’ in Hutchinson-Gilford progeria syndrome. *Human Molecular Genetics*, **2014**, 23, 1506-15	5.6	15
98	A new monoclonal antibody, 4-1a, that binds to the amino terminus of human lipoprotein lipase. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 970-6	5	4
97	Do lamin B1 and lamin B2 have redundant functions?. *Nucleus*, **2014**, 5, 287-92	3.9	7
96	An absence of nuclear lamins in keratinocytes leads to ichthyosis, defective epidermal barrier function, and intrusion of nuclear membranes and endoplasmic reticulum into the nuclear chromatin. *Molecular and Cellular Biology*, **2014**, 34, 4534-44	4.8	20
95	Multimerization of glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1 (GPIHBP1) and familial chylomicronemia from a serine-to-cysteine substitution in GPIHBP1 Ly6 domain. *Journal of Biological Chemistry*, **2014**, 289, 19491-9	5.4	37
94	Reciprocal knock-in mice to investigate the functional redundancy of lamin B1 and lamin B2. *Molecular Biology of the Cell*, **2014**, 25, 1666-75	3.5	19
93	The GPIHBP1-LPL complex is responsible for the margination of triglyceride-rich lipoproteins in capillaries. *Cell Metabolism*, **2014**, 19, 849-60	24.6	101
92	Response to Gerlic et al. *Cell Metabolism*, **2014**, 19, 346-7	24.6	
91	Targeting isoprenylcysteine methylation ameliorates disease in a mouse model of progeria. *Science*, **2013**, 340, 1330-3	33.3	80
90	Nuclear lamins in the brain - new insights into function and regulation. *Molecular Neurobiology*, **2013**, 47, 290-301	6.2	25
89	Targeting protein prenylation in progeria. *Science Translational Medicine*, **2013**, 5, 171ps3	17.5	42
88	Biochemistry and pathophysiology of intravascular and intracellular lipolysis. *Genes and Development*, **2013**, 27, 459-84	12.6	236

87	Farnesylation of lamin B1 is important for retention of nuclear chromatin during neuronal migration. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E1923-32	11.5	61
86	Mammalian Farnesylated Protein-Converting Enzyme 1 **2013**, 677-682		
85	Reciprocal metabolic perturbations in the adipose tissue and liver of GPIHBP1-deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 230-5	9.4	27
84	Inhibitors of protein geranylgeranyltransferase-I lead to prelamin A accumulation in cells by inhibiting ZMPSTE24. *Journal of Lipid Research*, **2012**, 53, 1176-82	6.3	14
83	Regulation of prelamin A but not lamin C by miR-9, a brain-specific microRNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E423-31	11.5	150
82	Chylomicronemia mutations yield new insights into interactions between lipoprotein lipase and GPIHBP1. *Human Molecular Genetics*, **2012**, 21, 2961-72	5.6	20
81	Understanding the roles of nuclear A- and B-type lamins in brain development. *Journal of Biological Chemistry*, **2012**, 287, 16103-10	5.4	41
80	Severe hepatocellular disease in mice lacking one or both CaaX prenyltransferases. *Journal of Lipid Research*, **2012**, 53, 77-86	6.3	11
79	Assessing mechanisms of GPIHBP1 and lipoprotein lipase movement across endothelial cells. *Journal of Lipid Research*, **2012**, 53, 2690-7	6.3	51
78	Mutations in lipoprotein lipase that block binding to the endothelial cell transporter GPIHBP1. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 7980-4	11.5	48
77	Are B-type lamins essential in all mammalian cells?. *Nucleus*, **2011**, 2, 562-9	3.9	33
76	Posttranslational Processing of Nuclear Lamins. *The Enzymes*, **2011**, 21-41	2.3	3
75	GPIHBP1, an endothelial cell transporter for lipoprotein lipase. *Journal of Lipid Research*, **2011**, 52, 1869-84	6.3	82
74	An absence of both lamin B1 and lamin B2 in keratinocytes has no effect on cell proliferation or the development of skin and hair. *Human Molecular Genetics*, **2011**, 20, 3537-44	5.6	76
73	Binding preferences for GPIHBP1, a glycosylphosphatidylinositol-anchored protein of capillary endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 176-82	9.4	38
72	Protein farnesylation inhibitors cause donut-shaped cell nuclei attributable to a centrosome separation defect. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 4997-5002	11.5	58
71	Heart-type fatty acid-binding protein is essential for efficient brown adipose tissue fatty acid oxidation and cold tolerance. *Journal of Biological Chemistry*, **2011**, 286, 380-90	5.4	64
70	Deficiencies in lamin B1 and lamin B2 cause neurodevelopmental defects and distinct nuclear shape abnormalities in neurons. *Molecular Biology of the Cell*, **2011**, 22, 4683-93	3.5	159

69	Absence of progeria-like disease phenotypes in knock-in mice expressing a non-farnesylated version of progerin. *Human Molecular Genetics*, **2011**, 20, 436-44	5.6	53
68	Investigating the purpose of prelamin A processing. *Nucleus*, **2011**, 2, 4-9	3.9	39
67	Assessing the role of the glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1 (GPIHBP1) three-finger domain in binding lipoprotein lipase. *Journal of Biological Chemistry*, **2011**, 286, 19735-43	5.4	44
66	Investigating the purpose of prelamin A processing. *Nucleus*, **2011**, 2, 4-9	3.9	28
65	Deletion of the basement membrane heparan sulfate proteoglycan type XVIII collagen causes hypertriglyceridemia in mice and humans. *PLoS ONE*, **2010**, 5, e13919	3.7	38
64	Unexpected expression pattern for glycosylphosphatidylinositol-anchored HDL-binding protein 1 (GPIHBP1) in mouse tissues revealed by positron emission tomography scanning. *Journal of Biological Chemistry*, **2010**, 285, 39239-48	5.4	33
63	Chylomicronemia elicits atherosclerosis in mice--brief report. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 20-3	9.4	56
62	An accumulation of non-farnesylated prelamin A causes cardiomyopathy but not progeria. *Human Molecular Genetics*, **2010**, 19, 2682-94	5.6	72
61	Mutation of conserved cysteines in the Ly6 domain of GPIHBP1 in familial chylomicronemia. *Journal of Lipid Research*, **2010**, 51, 1535-45	6.3	90
60	Genetic studies on the functional relevance of the protein prenyltransferases in skin keratinocytes. *Human Molecular Genetics*, **2010**, 19, 1603-17	5.6	31
59	Chylomicronemia with low postheparin lipoprotein lipase levels in the setting of GPIHBP1 defects. *Circulation: Cardiovascular Genetics*, **2010**, 3, 169-78		90
58	Direct synthesis of lamin A, bypassing prelamin a processing, causes misshapen nuclei in fibroblasts but no detectable pathology in mice. *Journal of Biological Chemistry*, **2010**, 285, 20818-26	5.4	59
57	Assessing the efficacy of protein farnesyltransferase inhibitors in mouse models of progeria. *Journal of Lipid Research*, **2010**, 51, 400-5	6.3	30
56	LINCing lamin B2 to neuronal migration: growing evidence for cell-specific roles of B-type lamins. *Nucleus*, **2010**, 1, 407-11	3.9	31
55	Cholesterol intake modulates plasma triglyceride levels in glycosylphosphatidylinositol HDL-binding protein 1-deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 2106-13	9.4	15
54	GPIHBP1 is responsible for the entry of lipoprotein lipase into capillaries. *Cell Metabolism*, **2010**, 12, 42-52	24.6	252
53	Abnormal development of the cerebral cortex and cerebellum in the setting of lamin B2 deficiency. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 5076-81	11.5	127
52	Highly conserved cysteines within the Ly6 domain of GPIHBP1 are crucial for the binding of lipoprotein lipase. *Journal of Biological Chemistry*, **2009**, 284, 30240-7	5.4	58

51	Chylomicronemia with a mutant GPIHBP1 (Q115P) that cannot bind lipoprotein lipase. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 956-62	9.4	134
50	Increasing the length of progerin isoprenyl anchor does not worsen bone disease or survival in mice with Hutchinson-Gilford progeria syndrome. *Journal of Lipid Research*, **2009**, 50, 126-34	6.3	12
49	Activating the synthesis of progerin, the mutant prelamin A in Hutchinson-Gilford progeria syndrome, with antisense oligonucleotides. *Human Molecular Genetics*, **2009**, 18, 2462-71	5.6	33
48	GPIHBP1, a GPI-anchored protein required for the lipolytic processing of triglyceride-rich lipoproteins. *Journal of Lipid Research*, **2009**, 50 Suppl, S57-62	6.3	44
47	Caution! Analyze transcripts from conditional knockout alleles. *Transgenic Research*, **2009**, 18, 483-9	3.3	17
46	The posttranslational processing of prelamin A and disease. *Annual Review of Genomics and Human Genetics*, **2009**, 10, 153-74	9.7	102
45	GPIHBP1 and lipolysis: an update. *Current Opinion in Lipidology*, **2009**, 20, 211-6	4.4	31
44	Laminopathies and the long strange trip from basic cell biology to therapy. *Journal of Clinical Investigation*, **2009**, 119, 1825-36	15.9	204
43	Treatment with a farnesyltransferase inhibitor improves survival in mice with a Hutchinson-Gilford progeria syndrome mutation. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2008**, 1781, 36-9	5	58
42	A potent HIV protease inhibitor, darunavir, does not inhibit ZMPSTE24 or lead to an accumulation of farnesyl-prelamin A in cells. *Journal of Biological Chemistry*, **2008**, 283, 9797-804	5.4	49
41	The acidic domain of GPIHBP1 is important for the binding of lipoprotein lipase and chylomicrons. *Journal of Biological Chemistry*, **2008**, 283, 29554-62	5.4	66
40	Glycosylation of Asn-76 in mouse GPIHBP1 is critical for its appearance on the cell surface and the binding of chylomicrons and lipoprotein lipase. *Journal of Lipid Research*, **2008**, 49, 1312-21	6.3	26
39	Eliminating the synthesis of mature lamin A reduces disease phenotypes in mice carrying a Hutchinson-Gilford progeria syndrome allele. *Journal of Biological Chemistry*, **2008**, 283, 7094-9	5.4	32
38	Early embryonic lethality caused by disruption of the gene for choline kinase alpha, the first enzyme in phosphatidylcholine biosynthesis. *Journal of Biological Chemistry*, **2008**, 283, 1456-1462	5.4	69
37	Abnormal patterns of lipoprotein lipase release into the plasma in GPIHBP1-deficient mice. *Journal of Biological Chemistry*, **2008**, 283, 34511-8	5.4	59
36	The expression of GPIHBP1, an endothelial cell binding site for lipoprotein lipase and chylomicrons, is induced by peroxisome proliferator-activated receptor-gamma. *Molecular Endocrinology*, **2008**, 22, 2496-504		45
35	Progerin elicits disease phenotypes of progeria in mice whether or not it is farnesylated. *Journal of Clinical Investigation*, **2008**, 118, 3291-300	15.9	115
34	HIV protease inhibitors block the zinc metalloproteinase ZMPSTE24 and lead to an accumulation of farnesyl-prelamin A in cells.. *FASEB Journal*, **2008**, 22, 401.3	0.9	

33	Mesenchymal Stem Cells Ameliorate Murine Progeria Phenotype. *Blood*, **2008**, 112, 2413-2413	2.2	
32	Increased progerin expression associated with unusual LMNA mutations causes severe progeroid syndromes. *Human Mutation*, **2007**, 28, 882-9	4.7	86
31	Mouse models of the laminopathies. *Experimental Cell Research*, **2007**, 313, 2144-56	4.2	82
30	Cell nuclei spin in the absence of lamin b1. *Journal of Biological Chemistry*, **2007**, 282, 20015-26	5.4	72
29	GPIHBP1: an endothelial cell molecule important for the lipolytic processing of chylomicrons. *Current Opinion in Lipidology*, **2007**, 18, 389-96	4.4	66
28	Normal binding of lipoprotein lipase, chylomicrons, and apo-AV to GPIHBP1 containing a G56R amino acid substitution. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2007**, 1771, 1464-8	5	39
27	Glycosylphosphatidylinositol-anchored high-density lipoprotein-binding protein 1 plays a critical role in the lipolytic processing of chylomicrons. *Cell Metabolism*, **2007**, 5, 279-91	24.6	357
26	Early embryonic lethality caused by disruption of the gene for choline kinase alpha, the first enzyme in phosphatidylcholine biosynthesis. *FASEB Journal*, **2007**, 21, A238	0.9	
25	10 Genetic approaches to understanding the physiologic importance of the carboxyl methylation of isoprenylated proteins. *The Enzymes*, **2006**, 24, 273-301	2.3	9
24	Lamins A and C but not lamin B1 regulate nuclear mechanics. *Journal of Biological Chemistry*, **2006**, 281, 25768-80	5.4	448
23	Prelamin A farnesylation and progeroid syndromes. *Journal of Biological Chemistry*, **2006**, 281, 39741-5	5.4	99
22	A mouse monoclonal antibody specific for mouse apoB48 and apoB100 produced by immunizing "apoB39-only" mice with mouse apoB48. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 182-5	5	11
21	A protein farnesyltransferase inhibitor ameliorates disease in a mouse model of progeria. *Science*, **2006**, 311, 1621-3	33.3	252
20	Protein farnesyltransferase inhibitors and progeria. *Trends in Molecular Medicine*, **2006**, 12, 480-7	11.5	29
19	A farnesyltransferase inhibitor improves disease phenotypes in mice with a Hutchinson-Gilford progeria syndrome mutation. *Journal of Clinical Investigation*, **2006**, 116, 2115-21	15.9	212
18	Prelamin A and lamin A appear to be dispensable in the nuclear lamina. *Journal of Clinical Investigation*, **2006**, 116, 743-52	15.9	175
17	Blocking protein farnesyltransferase improves nuclear blebbing in mouse fibroblasts with a targeted Hutchinson-Gilford progeria syndrome mutation. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 10291-6	11.5	235
16	Blocking protein farnesyltransferase improves nuclear shape in fibroblasts from humans with progeroid syndromes. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 12873-8	11.5	222

15	Prelamin A, Zmpste24, misshapen cell nuclei, and progeria--new evidence suggesting that protein farnesylation could be important for disease pathogenesis. *Journal of Lipid Research*, **2005**, 46, 2531-58	6.3	170
14	Heterozygosity for Lmna deficiency eliminates the progeria-like phenotypes in Zmpste24-deficient mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 18111-6	11.5	159
13	Lamin B1 is required for mouse development and nuclear integrity. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10428-33	11.5	296
12	Zmpste24 deficiency in mice causes spontaneous bone fractures, muscle weakness, and a prelamin A processing defect. *Proceedings of the National Academy of Sciences of the United States of America* , **2002**, 99, 13049-54	11.5	347
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