Colin L Stewart

List of Publications by Year
in descending order

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138 papers	27,455 citations	7568 77 h-index	11607 135 g-index
139 all docs	139 docs citations	139 times ranked	22431 citing authors

#	Article	IF	Citations
1	Blastocyst implantation depends on maternal expression of leukaemia inhibitory factor. Nature, 1992, 359, 76-79.	27.8	1,930
2	Myeloid leukaemia inhibitory factor maintains the developmental potential of embryonic stem cells. Nature, 1988, 336, 684-687.	27.8	1,871
3	Lamin A Truncation in Hutchinson-Gilford Progeria. Science, 2003, 300, 2055-2055.	12.6	1,247
4	Loss of a-Type Lamin Expression Compromises Nuclear Envelope Integrity Leading to Muscular Dystrophy. Journal of Cell Biology, 1999, 147, 913-920.	5.2	1,097
5	Lamin A/C deficiency causes defective nuclear mechanics and mechanotransduction. Journal of Clinical Investigation, 2004, 113, 370-378.	8.2	828
6	Requirement for LIM Homeobox Gene Isl1 in Motor Neuron Generation Reveals a Motor Neuronâ€“ Dependent Step in Interneuron Differentiation. Cell, 1996, 84, 309-320.	28.9	714
7	Resistance to Endotoxin Shock and Reduced Dissemination of Gram-Negative Bacteria in CD14-Deficient Mice. Immunity, 1996, 4, 407-414.	14.3	712
8	LBR and Lamin A/C Sequentially Tether Peripheral Heterochromatin and Inversely Regulate Differentiation. Cell, 2013, 152, 584-598.	28.9	681
9	Lamins A and C but Not Lamin B1 Regulate Nuclear Mechanics. Journal of Biological Chemistry, 2006, 281, 25768-25780.	3.4	579
10	Astrocytes Promote Myelination in Response to Electrical Impulses. Neuron, 2006, 49, 823-832.	8.1	572
11	Positive Selection of Natural Autoreactive B Cells. Science, 1999, 285, 113-116.	12.6	539
12	De novo methylation and expression of retroviral genomes during mouse embryogenesis. Nature, 1982, 298, 623-628.	27.8	538
13	Lamin A/C deficiency causes defective nuclear mechanics and mechanotransduction. Journal of Clinical Investigation, 2004, 113, 370-378.	8.2	522
14	A perinuclear actin cap regulates nuclear shape. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19017-19022.	7.1	511
15	Juxtaparanodal clustering of Shaker-like K+ channels in myelinated axons depends on Caspr2 and TAG-1. Journal of Cell Biology, 2003, 162, 1149-1160.	5.2	462
16	Targeted disruption of NMDA receptor 1 gene abolishes NMDA response and results in neonatal death. Neuron, 1994, 13, 325-338.	8.1	457
17	Acid sphingomyelinase deficient mice: a model of types A and B Niemannâ€“Pick disease. Nature Genetics, 1995, 10, 288-293.	21.4	457
18	The nuclear lamins: flexibility in function. Nature Reviews Molecular Cell Biology, 2013, 14, 13-24.	37.0	455

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19	Accelerated ageing in mice deficient in Zmpste24 protease is linked to p53 signalling activation. Nature, 2005, 437, 564-568.	27.8	438
20	A Human iPSC Model of Hutchinson Gilford Progeria Reveals Vascular Smooth Muscle and Mesenchymal Stem Cell Defects. Cell Stem Cell, 2011, 8, 31-45.	11.1	415
21	Life at the edge: the nuclear envelope and human disease. Nature Reviews Molecular Cell Biology, 2002, 3, 575-585.	37.0	387
22	Characterization of E-selectin-deficient mice: Demonstration of overlapping function of the endothelial selectins. Immunity, 1994, 1, 709-720.	14.3	374
23	Functional Characterization of Transforming Growth Factor Î² Signaling in Smad2- and Smad3-deficient Fibroblasts. Journal of Biological Chemistry, 2001, 276, 19945-19953.	3.4	367
24	Defects in nuclear structure and function promote dilated cardiomyopathy in lamin A/Câ€“deficient mice. Journal of Clinical Investigation, 2004, 113, 357-369.	8.2	331
25	A progeroid syndrome in mice is caused by defects in A-type lamins. Nature, 2003, 423, 298-301.	27.8	329
26	Abnormal nuclear shape and impaired mechanotransduction in emerin-deficient cells. Journal of Cell Biology, 2005, 170, 781-791.	5.2	323
27	Nesprin 4 is an outer nuclear membrane protein that can induce kinesin-mediated cell polarization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2194-2199.	7.1	313
28	Nuclear Lamin A/C Deficiency Induces Defects in Cell Mechanics, Polarization, and Migration. Biophysical Journal, 2007, 93, 2542-2552.	0.5	271
29	A-type lamins regulate retinoblastoma protein function by promoting subnuclear localization and preventing proteasomal degradation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9677-9682.	7.1	247
30	Stem Cells from Primordial Germ Cells Can Reenter the Germ Line. Developmental Biology, 1994, 161, 626-628.	2.0	244
31	Blurring the Boundary: The Nuclear Envelope Extends Its Reach. Science, 2007, 318, 1408-1412.	12.6	239
32	Defects in nuclear structure and function promote dilated cardiomyopathy in lamin A/Câ€“deficient mice. Journal of Clinical Investigation, 2004, 113, 357-369.	8.2	214
33	Prelamin A and lamin A appear to be dispensable in the nuclear lamina. Journal of Clinical Investigation, 2006, 116, 743-752.	8.2	209
34	Novel roles for A-type lamins in telomere biology and the DNA damage response pathway. EMBO Journal, 2009, 28, 2414-2427.	7.8	208
35	[49] Derivation of embryonic stem cell lines. Methods in Enzymology, 1993, 225, 803-823.	1.0	204
36	Accumulation of the Inner Nuclear Envelope Protein Sun1 Is Pathogenic in Progeric and Dystrophic Laminopathies. Cell, 2012, 149, 565-577.	28.9	203

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37	Loss of emerin at the nuclear envelope disrupts the Rb1/E2F and MyoD pathways during muscle regeneration. Human Molecular Genetics, 2006, 15, 637-651.	2.9	197
38	The imprinted gene Magel2 regulates normal circadian output. Nature Genetics, 2007, 39, 1266-1272.	21.4	196
39	A mammalian KASH domain protein coupling meiotic chromosomes to the cytoskeleton. Journal of Cell Biology, 2013, 202, 1023-1039.	5.2	193
40	Lamin B1 fluctuations have differential effects on cellular proliferation and senescence. Journal of Cell Biology, 2013, 200, 605-617.	5.2	193
41	Disruption of the mouse necdin gene results in early post-natal lethality. Nature Genetics, 1999, 23, 199-202.	21.4	191
42	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, 18111-18116.	7.1	191
43	Distinct Role of Surface Lymphotoxin Expressed by B Cells in the Organization of Secondary Lymphoid Tissues. Immunity, 2002, 17, 239-250.	14.3	189
44	Actin-myosinâ€“based contraction is responsible for apoptotic nuclear disintegration. Journal of Cell Biology, 2005, 168, 245-255.	5.2	189
45	Dysfunctional Connections Between the Nucleus and the Actin and Microtubule Networks in Laminopathic Models. Biophysical Journal, 2008, 95, 5462-5475.	0.5	181
46	Zac1 (Lot1), a Potential Tumor Suppressor Gene, and the Gene for É›-Sarcoglycan Are Maternally Imprinted Genes: Identification by a Subtractive Screen of Novel Uniparental Fibroblast Lines. Molecular and Cellular Biology, 2000, 20, 3308-3315.	2.3	179
47	The laminopathies: nuclear structure meets disease. Current Opinion in Genetics and Development, 2003, 13, 223-230.	3.3	177
48	Osteoclast size is controlled by Fra-2 through LIF/LIF-receptor signalling and hypoxia. Nature, 2008, 454, 221-225.	27.8	177
49	Expression of an LMNA-N195K variant of A-type lamins results in cardiac conduction defects and death in mice. Human Molecular Genetics, 2005, 14, 2167-2180.	2.9	172
50	Inactivation of the mouse Magel2 gene results in growth abnormalities similar to Prader-Willi syndrome. Human Molecular Genetics, 2007, 16, 2713-2719.	2.9	170
51	Functional Coupling between the Extracellular Matrix and Nuclear Lamina by Wnt Signaling in Progeria. Developmental Cell, 2010, 19, 413-425.	7.0	162
52	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. Journal of Cell Biology, 2008, 181, 27-35.	5.2	160
53	Androgenetic mouse embryonic stem cells are pluripotent and cause skeletal defects in chimeras: Implications for genetic imprinting. Cell, 1990, 62, 251-260.	28.9	153
54	Transmembrane protein Sun2 is involved in tethering mammalian meiotic telomeres to the nuclear envelope. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7426-7431.	7.1	151

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55	Lamin A/C haploinsufficiency causes dilated cardiomyopathy and apoptosis-triggered cardiac conduction system disease. Journal of Molecular and Cellular Cardiology, 2008, 44, 293-303.	1.9	147
56	The Laminopathies: The Functional Architecture of the Nucleus and Its Contribution to Disease. Annual Review of Genomics and Human Genetics, 2006, 7, 369-405.	6.2	143
57	Loss of nucleoplasmic LAP2Î±â€“lamin A complexes causes erythroid and epidermal progenitor hyperproliferation. Nature Cell Biology, 2008, 10, 1341-1348.	10.3	141
58	At Least Ten Genes Define the Imprinted Dlk1-Dio3 Cluster on Mouse Chromosome 12qF1. PLoS ONE, 2009, 4, e4352.	2.5	139
59	To knockout in 129 or in C57BL/6: that is the question. Trends in Genetics, 2004, 20, 59-62.	6.7	130
60	The LINC complex is essential for hearing. Journal of Clinical Investigation, 2013, 123, 740-50.	8.2	130
61	Preimplantation development of the mammalian embryo and its regulation by growth factors. , 1997, 21, 91-101.		126
62	A dual role for A-type lamins in DNA double-strand break repair. Cell Cycle, 2011, 10, 2549-2560.	2.6	124
63	Nuclear lamin A inhibits adipocyte differentiation: implications for Dunnigan-type familial partial lipodystrophy. Human Molecular Genetics, 2006, 15, 653-663.	2.9	123
64	Absence ofNdn, Encoding the Prader-Willi Syndrome-Deleted Genenecdin, Results in Congenital Deficiency of Central Respiratory Drive in Neonatal Mice. Journal of Neuroscience, 2003, 23, 1569-1573.	3.6	121
65	Functional Architecture of the Cell's Nucleus in Development, Aging, and Disease. Current Topics in Developmental Biology, 2014, 109, 1-52.	2.2	117
66	Analysis of neuronal and glial phenotypes in brains of mice deficient in leukemia inhibitory factor. Journal of Neurobiology, 1998, 36, 509-524.	3.6	113
67	Mouse models of the laminopathies. Experimental Cell Research, 2007, 313, 2144-2156.	2.6	105
68	Lamin A/Câ€“mediated neuromuscular junction defects in Emery-Dreifuss muscular dystrophy. Journal of Cell Biology, 2009, 184, 31-44.	5.2	105
69	Global gene expression profiling reveals similarities and differences among mouse pluripotent stem cells of different origins and strains. Developmental Biology, 2007, 307, 446-459.	2.0	98
70	A new pathway that regulates 53BP1 stability implicates Cathepsin L and vitamin D in DNA repair. EMBO Journal, 2011, 30, 3383-3396.	7.8	98
71	B-MYB Is Essential for Normal Cell Cycle Progression and Chromosomal Stability of Embryonic Stem Cells. PLoS ONE, 2008, 3, e2478.	2.5	96
72	The Ancient Source of a Distinct Gene Family Encoding Proteins Featuring RING and C3H Zinc-Finger Motifs with Abundant Expression in Developing Brain and Nervous System. Genomics, 2000, 66, 76-86.	2.9	95

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73	Induction of p57KIP2expression by p73Î². Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3529-3534.	7.1	91
74	Targeted Disruption of the2B4Gene in Mice Reveals an In Vivo Role of 2B4 (CD244) in the Rejection of B16 Melanoma Cells. Journal of Immunology, 2005, 174, 800-807.	0.8	88
75	[50] Production of chimeras between embryonic stem cells and embryos. Methods in Enzymology, 1993, 225, 823-856.	1.0	86
76	Paternal and maternal genomes confer opposite effects on proliferation, cell-cycle length, senescence, and tumor formation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13344-13349.	7.1	86
77	Aging and nuclear organization: lamins and progeria. Current Opinion in Cell Biology, 2004, 16, 322-327.	5.4	86
78	Cell Nuclei Spin in the Absence of Lamin B1. Journal of Biological Chemistry, 2007, 282, 20015-20026.	3.4	83
79	DNA Demethylation Reactivates a Subset of Imprinted Genes in Uniparental Mouse Embryonic Fibroblasts. Journal of Biological Chemistry, 2001, 276, 8674-8680.	3.4	76
80	Leukemia inhibitory factor regulates microvessel density by modulating oxygen-dependent VEGF expression in mice. Journal of Clinical Investigation, 2008, 118, 2393-403.	8.2	74
81	Effect of pathogenic mis-sense mutations in lamin A on its interaction with emerin in vivo. Journal of Cell Science, 2003, 116, 3027-3035.	2.0	71
82	Effect of peritoneal fluid from women with endometriosis on implantation in the mouse model. Fertility and Sterility, 2000, 74, 41-48.	1.0	70
83	Attenuated hypertrophic response to pressure overload in a lamin A/C haploinsufficiency mouse. Journal of Molecular and Cellular Cardiology, 2010, 48, 1290-1297.	1.9	64
84	A trans-homologue interaction between reciprocally imprinted miR-127 and Rtl1 regulates placenta development. Development (Cambridge), 2015, 142, 2425-30.	2.5	62
85	Characterization of Adiposity and Metabolism in Lmna-Deficient Mice. Biochemical and Biophysical Research Communications, 2002, 291, 522-527.	2.1	61
86	Control of uterine receptivity and embryo implantation by steroid hormone regulation of LIF production and LIF receptor activity: towards a molecular understanding of "the window of implantation". Reviews in Endocrine and Metabolic Disorders, 2002, 3, 119-126.	5.7	59
87	The lamin B receptor under transcriptional control of C/EBPÎµ is required for morphological but not functional maturation of neutrophils. Human Molecular Genetics, 2008, 17, 2921-2933.	2.9	59
88	The Role of Leukemia Inhibitory Factor (LIF) and Other Cytokines in Regulating Implantation in Mammals. Annals of the New York Academy of Sciences, 1994, 734, 157-165.	3.8	58
89	Mice lacking the cell adhesion molecule Thy-1 fail to use socially transmitted cues to direct their choice of food. Current Biology, 2000, 10, 68-75.	3.9	58
90	Disruption of the ubiquitin ligase HERC4 causes defects in spermatozoon maturation and impaired fertility. Developmental Biology, 2007, 312, 501-508.	2.0	58

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91	Accelerated aging syndromes, are they relevant to normal human aging?. Aging, 2011, 3, 889-895.	3.1	58
92	SUN4 is essential for nuclear remodeling during mammalian spermiogenesis. Developmental Biology, 2015, 407, 321-330.	2.0	55
93	Disruption of spermatogenesis in mice lacking A-type lamins. Journal of Cell Science, 2004, 117, 1173-1178.	2.0	53
94	Loss of Cyclooxygenase-2 Retards Decidual Growth but Does Not Inhibit Embryo Implantation or Development to Term. Biology of Reproduction, 2003, 68, 401-404.	2.7	52
95	[52] Simple screening procedure to detect gene targeting events in embryonic stem cells. Methods in Enzymology, 1993, 225, 878-890.	1.0	50
96	The A-Type Lamins Nuclear Structural Proteins as a Focus for Muscular Dystrophy and Cardiovascular Diseases. Trends in Cardiovascular Medicine, 2001, 11, 280-285.	4.9	50
97	Endogenous leukemia inhibitory factor attenuates endotoxin response. Laboratory Investigation, 2005, 85, 276-284.	3.7	49
98	The Laminopathies and the Insights They Provide into the Structural and Functional Organization of the Nucleus. Annual Review of Genomics and Human Genetics, 2020, 21, 263-288.	6.2	48
99	Epidermal expression of the truncated prelamin A causing Hutchinson-Gilford progeria syndrome: effects on keratinocytes, hair and skin. Human Molecular Genetics, 2008, 17, 2357-2369.	2.9	45
100	Disrupting the LINC complex by AAV mediated gene transduction prevents progression of Lamin induced cardiomyopathy. Nature Communications, 2021, 12, 4722.	12.8	45
101	LIF-mediated activation of STAT proteins after neuronal injury in vivo. NeuroReport, 1995, 6, 2240-2244.	1.2	44
102	Defective skeletal muscle growth in lamin A/C-deficient mice is rescued by loss of Lap2Î±. Human Molecular Genetics, 2013, 22, 2852-2869.	2.9	41
103	Loss of LAP2Î± Delays Satellite Cell Differentiation and Affects Postnatal Fiber-Type Determination. Stem Cells, 2010, 28, 480-488.	3.2	40
104	Lamina-Associated Polypeptide 2Î± Loss Impairs Heart Function and Stress Response in Mice. Circulation Research, 2010, 106, 346-353.	4.5	40
105	Leukemia inhibitory factor influences the timing of programmed synapse withdrawal from neonatal muscles. Journal of Neurobiology, 1995, 28, 35-50.	3.6	39
106	The Nuclear Envelope in Muscular Dystrophy and Cardiovascular Diseases. Traffic, 2001, 2, 675-683.	2.7	39
107	Functions of the nuclear envelope and lamina in development and disease. Biochemical Society Transactions, 2008, 36, 1329-1334.	3.4	39
108	PRDM15 safeguards naive pluripotency by transcriptionally regulating WNT and MAPKâ€“ERK signaling. Nature Genetics, 2017, 49, 1354-1363.	21.4	39

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109	2C-BioID: An Advanced Two Component BioID System for Precision Mapping of Protein Interactomes. IScience, 2018, 10, 40-52.	4.1	35
110	Targeted disruption of mouse Coch provides functional evidence that DFNA9 hearing loss is not a COCH haploinsufficiency disorder. Human Genetics, 2005, 118, 29-34.	3.8	33
111	Heterochromatin loss as a determinant of progerinâ€induced DNA damage in Hutchinsonâ€“Gilford Progeria. Aging Cell, 2020, 19, e13108.	6.7	31
112	Grb10 and Active Raf-1 Kinase Promote Bad-dependent Cell Survival. Journal of Biological Chemistry, 2007, 282, 21873-21883.	3.4	30
113	Behavioral and Molecular Exploration of the AR-CMT2A Mouse Model Lmna R298C/R298C. NeuroMolecular Medicine, 2012, 14, 40-52.	3.4	30
114	Gene expression analysis in the compartments of the murine uterus. Differentiation, 2016, 91, 42-49.	1.9	29
115	Hepatocyte-Specific Deletion of Mouse Lamin A/C Leads to Male-Selective Steatohepatitis. Cellular and Molecular Gastroenterology and Hepatology, 2017, 4, 365-383.	4.5	27
116	Tissue specific loss of A-type lamins in the gastrointestinal epithelium can enhance polyp size. Differentiation, 2015, 89, 11-21.	1.9	25
117	On the fate of primordial germ cells injected into early mouse embryos. Developmental Biology, 2014, 385, 155-159.	2.0	24
118	LINC complex regulation of genome organization and function. Current Opinion in Genetics and Development, 2021, 67, 130-141.	3.3	22
119	Oct-4, Scene 1: the drama of mouse development. Nature Genetics, 2000, 24, 328-330.	21.4	21
120	Nuclear envelope localization of LEMD2 is developmentally dynamic and lamin A/C dependent yet insufficient for heterochromatin tethering. Differentiation, 2017, 94, 58-70.	1.9	21
121	The LEM Domain Proteins Emerin and LAP2Î± Are Dispensable for Human Immunodeficiency Virus Type 1 and Murine Leukemia Virus Infections. Journal of Virology, 2008, 82, 5860-5868.	3.4	18
122	Embryonic stem cell-related miRNAs are involved in differentiation of pluripotent cells originating from the germ line. Molecular Human Reproduction, 2010, 16, 793-803.	2.8	18
123	Myonuclear Degeneration in LMNA Null Mice. Brain Pathology, 2008, 18, 338-343.	4.1	15
124	AKTIP interacts with ESCRT I and is needed for the recruitment of ESCRT III subunits to the midbody. PLoS Genetics, 2021, 17, e1009757.	3.5	13
125	Chapter 7 Fraying at the Edge. Current Topics in Developmental Biology, 2008, 84, 351-384.	2.2	12
126	Lamin A/C Maintains Exocrine Pancreas Homeostasis by Regulating Stability of RB and Activity of E2F. Gastroenterology, 2018, 154, 1625-1629.e8.	1.3	12

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127	The mammalian LINC complex component SUN1 regulates muscle regeneration by modulating drosha activity. ELife, 2019, 8, .	6.0	12
128	A Simple Procedure for the Efficient Derivation of Mouse ES Cells. Methods in Enzymology, 2010, 476, 265-283.	1.0	10
129	The unusual suspect. Nature, 2007, 450, 619-619.	27.8	9
130	Postnatal development of mice with combined genetic depletions of lamin A/C, emerin and lamina-associated polypeptide 1. Human Molecular Genetics, 2019, 28, 2486-2500.	2.9	7
131	A novel cell-based system for the rapid quantitative evaluation of (anti)-inflammatory potential of test substances. Journal of Immunological Methods, 2003, 281, 51-63.	1.4	6
132	LIF and Related Cytokines in the Regulation of Mammalian Development. Annals of the New York Academy of Sciences, 2006, 762, 29-30.	3.8	5
133	Effects of leukemia inhibitory factor on lectin-binding patterns in the uterine stromal vessels of mice. Immunobiology, 2008, 213, 143-150.	1.9	5
134	Agrin Pathway is Controlled by Leukemia Inhibitory Factor (LIF) in Murine Implantation. Journal of Reproduction and Development, 2009, 55, 293-298.	1.4	4
135	Intraspecific mating with CzechII/Ei mice rescue lethality associated with loss of function mutations of the imprinted genes, Igf2r and Cdkn1c. Genomics, 2004, 84, 836-843.	2.9	3
136	Informatics-Based Analysis of Mechanosignaling in the Laminopathies. Methods in Cell Biology, 2010, 98, 323-335.	1.1	1
137	Imprinting: The Facts Ma'am, Just the Facts. Cell, 1999, 96, 483-485.	28.9	0
138	Proteinâ€Protein Interaction Mapping by 2Câ€BioID. Current Protocols in Cell Biology, 2019, 84, e96.	2.3	0