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	LINC complex regulation of genome organization and function. Current Opinion in Genetics and Development, 2021, 67, 130-141.	3.3	22
2	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
3	Disrupting the LINC complex by AAV mediated gene transduction prevents progression of Lamin induced cardiomyopathy. Nature Communications, 2021, 12, 4722.	12.8	45
4	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
5	Heterochromatin loss as a determinant of progerinâ€induced DNA damage in Hutchinsonâ€“Gilford Progeria. Aging Cell, 2020, 19, e13108.	6.7	31
6	Proteinâ€Protein Interaction Mapping by 2Câ€BioID. Current Protocols in Cell Biology, 2019, 84, e96.	2.3	0
7	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
8	The mammalian LINC complex component SUN1 regulates muscle regeneration by modulating drosha activity. ELife, 2019, 8, .	6.0	12
9	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
10	2C-BioID: An Advanced Two Component BioID System for Precision Mapping of Protein Interactomes. IScience, 2018, 10, 40-52.	4.1	35
11	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
12	PRDM15 safeguards naive pluripotency by transcriptionally regulating WNT and MAPKâ€“ERK signaling. Nature Genetics, 2017, 49, 1354-1363.	21.4	39
13	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
14	Gene expression analysis in the compartments of the murine uterus. Differentiation, 2016, 91, 42-49.	1.9	29
15	A trans-homologue interaction between reciprocally imprinted miR-127 and Rtl1 regulates placenta development. Development (Cambridge), 2015, 142, 2425-30.	2.5	62
16	Tissue specific loss of A-type lamins in the gastrointestinal epithelium can enhance polyp size. Differentiation, 2015, 89, 11-21.	1.9	25
17	SUN4 is essential for nuclear remodeling during mammalian spermiogenesis. Developmental Biology, 2015, 407, 321-330.	2.0	55
18	Functional Architecture of the Cell's Nucleus in Development, Aging, and Disease. Current Topics in Developmental Biology, 2014, 109, 1-52.	2.2	117

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19	On the fate of primordial germ cells injected into early mouse embryos. Developmental Biology, 2014, 385, 155-159.	2.0	24
20	A mammalian KASH domain protein coupling meiotic chromosomes to the cytoskeleton. Journal of Cell Biology, 2013, 202, 1023-1039.	5.2	193
21	The nuclear lamins: flexibility in function. Nature Reviews Molecular Cell Biology, 2013, 14, 13-24.	37.0	455
22	LBR and Lamin A/C Sequentially Tether Peripheral Heterochromatin and Inversely Regulate Differentiation. Cell, 2013, 152, 584-598.	28.9	681
23	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
24	Lamin B1 fluctuations have differential effects on cellular proliferation and senescence. Journal of Cell Biology, 2013, 200, 605-617.	5.2	193
25	The LINC complex is essential for hearing. Journal of Clinical Investigation, 2013, 123, 740-50.	8.2	130
26	Accumulation of the Inner Nuclear Envelope Protein Sun1 Is Pathogenic in Progeric and Dystrophic Laminopathies. Cell, 2012, 149, 565-577.	28.9	203
27	Behavioral and Molecular Exploration of the AR-CMT2A Mouse Model Lmna R298C/R298C. NeuroMolecular Medicine, 2012, 14, 40-52.	3.4	30
28	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
29	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
30	Accelerated aging syndromes, are they relevant to normal human aging?. Aging, 2011, 3, 889-895.	3.1	58
31	A dual role for A-type lamins in DNA double-strand break repair. Cell Cycle, 2011, 10, 2549-2560.	2.6	124
32	Loss of LAP2Î± Delays Satellite Cell Differentiation and Affects Postnatal Fiber-Type Determination. Stem Cells, 2010, 28, 480-488.	3.2	40
33	Lamina-Associated Polypeptide 2Î± Loss Impairs Heart Function and Stress Response in Mice. Circulation Research, 2010, 106, 346-353.	4.5	40
34	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
35	Informatics-Based Analysis of Mechanosignaling in the Laminopathies. Methods in Cell Biology, 2010, 98, 323-335.	1.1	1
36	A Simple Procedure for the Efficient Derivation of Mouse ES Cells. Methods in Enzymology, 2010, 476, 265-283.	1.0	10

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37	Functional Coupling between the Extracellular Matrix and Nuclear Lamina by Wnt Signaling in Progeria. Developmental Cell, 2010, 19, 413-425.	7.0	162
38	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
39	Agrin Pathway is Controlled by Leukemia Inhibitory Factor (LIF) in Murine Implantation. Journal of Reproduction and Development, 2009, 55, 293-298.	1.4	4
40	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
41	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
42	Lamin A/Câ€“mediated neuromuscular junction defects in Emery-Dreifuss muscular dystrophy. Journal of Cell Biology, 2009, 184, 31-44.	5.2	105
43	Novel roles for A-type lamins in telomere biology and the DNA damage response pathway. EMBO Journal, 2009, 28, 2414-2427.	7.8	208
44	At Least Ten Genes Define the Imprinted Dlk1-Dio3 Cluster on Mouse Chromosome 12qF1. PLoS ONE, 2009, 4, e4352.	2.5	139
45	Osteoclast size is controlled by Fra-2 through LIF/LIF-receptor signalling and hypoxia. Nature, 2008, 454, 221-225.	27.8	177
46	Loss of nucleoplasmic LAP2Î±â€“lamin A complexes causes erythroid and epidermal progenitor hyperproliferation. Nature Cell Biology, 2008, 10, 1341-1348.	10.3	141
47	Myonuclear Degeneration in LMNA Null Mice. Brain Pathology, 2008, 18, 338-343.	4.1	15
48	Chapter 7 Fraying at the Edge. Current Topics in Developmental Biology, 2008, 84, 351-384.	2.2	12
49	Effects of leukemia inhibitory factor on lectin-binding patterns in the uterine stromal vessels of mice. Immunobiology, 2008, 213, 143-150.	1.9	5
50	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
51	Dysfunctional Connections Between the Nucleus and the Actin and Microtubule Networks in Laminopathic Models. Biophysical Journal, 2008, 95, 5462-5475.	0.5	181
52	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. Journal of Cell Biology, 2008, 181, 27-35.	5.2	160
53	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
54	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

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55	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
56	Functions of the nuclear envelope and lamina in development and disease. Biochemical Society Transactions, 2008, 36, 1329-1334.	3.4	39
57	B-MYB Is Essential for Normal Cell Cycle Progression and Chromosomal Stability of Embryonic Stem Cells. PLoS ONE, 2008, 3, e2478.	2.5	96
58	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
59	Grb10 and Active Raf-1 Kinase Promote Bad-dependent Cell Survival. Journal of Biological Chemistry, 2007, 282, 21873-21883.	3.4	30
60	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
61	Cell Nuclei Spin in the Absence of Lamin B1. Journal of Biological Chemistry, 2007, 282, 20015-20026.	3.4	83
62	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
63	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
64	Disruption of the ubiquitin ligase HERC4 causes defects in spermatozoon maturation and impaired fertility. Developmental Biology, 2007, 312, 501-508.	2.0	58
65	Blurring the Boundary: The Nuclear Envelope Extends Its Reach. Science, 2007, 318, 1408-1412.	12.6	239
66	Nuclear Lamin A/C Deficiency Induces Defects in Cell Mechanics, Polarization, and Migration. Biophysical Journal, 2007, 93, 2542-2552.	0.5	271
67	The unusual suspect. Nature, 2007, 450, 619-619.	27.8	9
68	The imprinted gene Magel2 regulates normal circadian output. Nature Genetics, 2007, 39, 1266-1272.	21.4	196
69	Mouse models of the laminopathies. Experimental Cell Research, 2007, 313, 2144-2156.	2.6	105
70	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
71	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
72	Astrocytes Promote Myelination in Response to Electrical Impulses. Neuron, 2006, 49, 823-832.	8.1	572

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73	Nuclear lamin A inhibits adipocyte differentiation: implications for Dunnigan-type familial partial lipodystrophy. Human Molecular Genetics, 2006, 15, 653-663.	2.9	123
74	Lamins A and C but Not Lamin B1 Regulate Nuclear Mechanics. Journal of Biological Chemistry, 2006, 281, 25768-25780.	3.4	579
75	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
76	Prelamin A and lamin A appear to be dispensable in the nuclear lamina. Journal of Clinical Investigation, 2006, 116, 743-752.	8.2	209
77	Endogenous leukemia inhibitory factor attenuates endotoxin response. Laboratory Investigation, 2005, 85, 276-284.	3.7	49
78	Accelerated ageing in mice deficient in Zmpste24 protease is linked to p53 signalling activation. Nature, 2005, 437, 564-568.	27.8	438
79	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
80	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
81	Actin-myosinâ€“based contraction is responsible for apoptotic nuclear disintegration. Journal of Cell Biology, 2005, 168, 245-255.	5.2	189
82	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
83	Abnormal nuclear shape and impaired mechanotransduction in emerin-deficient cells. Journal of Cell Biology, 2005, 170, 781-791.	5.2	323
84	Disruption of spermatogenesis in mice lacking A-type lamins. Journal of Cell Science, 2004, 117, 1173-1178.	2.0	53
85	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
86	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
87	To knockout in 129 or in C57BL/6: that is the question. Trends in Genetics, 2004, 20, 59-62.	6.7	130
88	Aging and nuclear organization: lamins and progeria. Current Opinion in Cell Biology, 2004, 16, 322-327.	5.4	86
89	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
90	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

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91	Lamin A/C deficiency causes defective nuclear mechanics and mechanotransduction. Journal of Clinical Investigation, 2004, 113, 370-378.	8.2	522
92	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
93	Lamin A/C deficiency causes defective nuclear mechanics and mechanotransduction. Journal of Clinical Investigation, 2004, 113, 370-378.	8.2	828
94	Lamin A Truncation in Hutchinson-Gilford Progeria. Science, 2003, 300, 2055-2055.	12.6	1,247
95	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
96	A progeroid syndrome in mice is caused by defects in A-type lamins. Nature, 2003, 423, 298-301.	27.8	329
97	The laminopathies: nuclear structure meets disease. Current Opinion in Genetics and Development, 2003, 13, 223-230.	3.3	177
98	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
99	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
100	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
101	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
102	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
103	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
104	Characterization of Adiposity and Metabolism in Lmna-Deficient Mice. Biochemical and Biophysical Research Communications, 2002, 291, 522-527.	2.1	61
105	Distinct Role of Surface Lymphotoxin Expressed by B Cells in the Organization of Secondary Lymphoid Tissues. Immunity, 2002, 17, 239-250.	14.3	189
106	Life at the edge: the nuclear envelope and human disease. Nature Reviews Molecular Cell Biology, 2002, 3, 575-585.	37.0	387
107	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
108	The Nuclear Envelope in Muscular Dystrophy and Cardiovascular Diseases. Traffic, 2001, 2, 675-683.	2.7	39

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109	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
110	DNA Demethylation Reactivates a Subset of Imprinted Genes in Uniparental Mouse Embryonic Fibroblasts. Journal of Biological Chemistry, 2001, 276, 8674-8680.	3.4	76
111	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
112	Oct-4, Scene 1: the drama of mouse development. Nature Genetics, 2000, 24, 328-330.	21.4	21
113	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
114	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
115	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
116	Effect of peritoneal fluid from women with endometriosis on implantation in the mouse model. Fertility and Sterility, 2000, 74, 41-48.	1.0	70
117	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
118	Disruption of the mouse necdin gene results in early post-natal lethality. Nature Genetics, 1999, 23, 199-202.	21.4	191
119	Imprinting: The Facts Ma'am, Just the Facts. Cell, 1999, 96, 483-485.	28.9	0
120	Positive Selection of Natural Autoreactive B Cells. Science, 1999, 285, 113-116.	12.6	539
121	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
122	Preimplantation development of the mammalian embryo and its regulation by growth factors. , 1997, 21, 91-101.		126
123	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
124	Resistance to Endotoxin Shock and Reduced Dissemination of Gram-Negative Bacteria in CD14-Deficient Mice. Immunity, 1996, 4, 407-414.	14.3	712
125	LIF-mediated activation of STAT proteins after neuronal injury in vivo. NeuroReport, 1995, 6, 2240-2244.	1.2	44
126	Leukemia inhibitory factor influences the timing of programmed synapse withdrawal from neonatal muscles. Journal of Neurobiology, 1995, 28, 35-50.	3.6	39

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127	Acid sphingomyelinase deficient mice: a model of types A and B Niemannâ€“Pick disease. Nature Genetics, 1995, 10, 288-293.	21.4	457
128	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
129	Stem Cells from Primordial Germ Cells Can Reenter the Germ Line. Developmental Biology, 1994, 161, 626-628.	2.0	244
130	Targeted disruption of NMDA receptor 1 gene abolishes NMDA response and results in neonatal death. Neuron, 1994, 13, 325-338.	8.1	457
131	Characterization of E-selectin-deficient mice: Demonstration of overlapping function of the endothelial selectins. Immunity, 1994, 1, 709-720.	14.3	374
132	[50] Production of chimeras between embryonic stem cells and embryos. Methods in Enzymology, 1993, 225, 823-856.	1.0	86
133	[49] Derivation of embryonic stem cell lines. Methods in Enzymology, 1993, 225, 803-823.	1.0	204
134	[52] Simple screening procedure to detect gene targeting events in embryonic stem cells. Methods in Enzymology, 1993, 225, 878-890.	1.0	50
135	Blastocyst implantation depends on maternal expression of leukaemia inhibitory factor. Nature, 1992, 359, 76-79.	27.8	1,930
136	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
137	Myeloid leukaemia inhibitory factor maintains the developmental potential of embryonic stem cells. Nature, 1988, 336, 684-687.	27.8	1,871
138	De novo methylation and expression of retroviral genomes during mouse embryogenesis. Nature, 1982, 298, 623-628.	27.8	538