

Lee L Rubin

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132
papers

16,960
citations

63
h-index

130
g-index

143
ext. papers

18,864
ext. citations

11.9
avg, IF

6.2
L-index

#	Paper	IF	Citations
132	The cell biology of the blood-brain barrier. <i>Annual Review of Neuroscience</i> , 1999 , 22, 11-28	17	807
131	A paracrine requirement for hedgehog signalling in cancer. <i>Nature</i> , 2008 , 455, 406-10	50.4	800
130	A c-Jun dominant negative mutant protects sympathetic neurons against programmed cell death. <i>Neuron</i> , 1995 , 14, 927-39	13.9	764
129	Vascular and neurogenic rejuvenation of the aging mouse brain by young systemic factors. <i>Science</i> , 2014 , 344, 630-4	33.3	655
128	A small-molecule inhibitor of tgf-Beta signaling replaces sox2 in reprogramming by inducing nanog. <i>Cell Stem Cell</i> , 2009 , 5, 491-503	18	650
127	A cell culture model of the blood-brain barrier. <i>Journal of Cell Biology</i> , 1991 , 115, 1725-35	7.3	632
126	Targeting the Hedgehog pathway in cancer. <i>Nature Reviews Drug Discovery</i> , 2006 , 5, 1026-33	64.1	624
125	Sonic hedgehog is required for progenitor cell maintenance in telencephalic stem cell niches. <i>Neuron</i> , 2003 , 39, 937-50	13.9	590
124	Zebrafish behavioral profiling links drugs to biological targets and rest/wake regulation. <i>Science</i> , 2010 , 327, 348-51	33.3	556
123	Suppression of the Shh pathway using a small molecule inhibitor eliminates medulloblastoma in Ptc1(+/-)p53(-/-) mice. <i>Cancer Cell</i> , 2004 , 6, 229-40	24.3	444
122	A small molecule that directs differentiation of human ESCs into the pancreatic lineage. <i>Nature Chemical Biology</i> , 2009 , 5, 258-65	11.7	412
121	A TALEN genome-editing system for generating human stem cell-based disease models. <i>Cell Stem Cell</i> , 2013 , 12, 238-51	18	407
120	Small-molecule modulators of Hedgehog signaling: identification and characterization of Smoothed agonists and antagonists. <i>Journal of Biology</i> , 2002 , 1, 10		386
119	Motor neuron disease. SMN2 splicing modifiers improve motor function and longevity in mice with spinal muscular atrophy. <i>Science</i> , 2014 , 345, 688-93	33.3	332
118	A comparison of non-integrating reprogramming methods. <i>Nature Biotechnology</i> , 2015 , 33, 58-63	44.5	326
117	Phosphorylation of c-Jun is necessary for apoptosis induced by survival signal withdrawal in cerebellar granule neurons. <i>Journal of Neuroscience</i> , 1998 , 18, 751-62	6.6	325
116	GDC-0449-a potent inhibitor of the hedgehog pathway. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 5576-81	2.9	318

115	Identification of a small molecule inhibitor of the hedgehog signaling pathway: effects on basal cell carcinoma-like lesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4616-21	11.5	283
114	In Silico Labeling: Predicting Fluorescent Labels in Unlabeled Images. <i>Cell</i> , 2018 , 173, 792-803.e19	56.2	276
113	Deregulation of dorsoventral patterning by FGF confers trilineage differentiation capacity on CNS stem cells in vitro. <i>Neuron</i> , 2003 , 40, 485-99	13.9	276
112	Role of the Jun kinase pathway in the regulation of c-Jun expression and apoptosis in sympathetic neurons. <i>Journal of Neuroscience</i> , 1998 , 18, 1713-24	6.6	263
111	miRNA malfunction causes spinal motor neuron disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13111-6	11.5	245
110	Recovery from paralysis in adult rats using embryonic stem cells. <i>Annals of Neurology</i> , 2006 , 60, 32-44	9.4	234
109	Activated phosphatidylinositol 3-kinase and Akt kinase promote survival of superior cervical neurons. <i>Journal of Cell Biology</i> , 1997 , 139, 809-15	7.3	232
108	A small molecule screen in stem-cell-derived motor neurons identifies a kinase inhibitor as a candidate therapeutic for ALS. <i>Cell Stem Cell</i> , 2013 , 12, 713-26	18	231
107	Components of Torpedo electric organ and muscle that cause aggregation of acetylcholine receptors on cultured muscle cells. <i>Journal of Cell Biology</i> , 1984 , 99, 615-27	7.3	224
106	Black widow spider venom: effect of purified toxin on lipid bilayer membranes. <i>Science</i> , 1976 , 193, 1009-113	31.3	181
105	iPSC-derived dopamine neurons reveal differences between monozygotic twins discordant for Parkinson's disease. <i>Cell Reports</i> , 2014 , 9, 1173-82	10.6	166
104	Clonal analyses and gene profiling identify genetic biomarkers of the thermogenic potential of human brown and white preadipocytes. <i>Nature Medicine</i> , 2015 , 21, 760-8	50.5	165
103	Role of apoptosis signal-regulating kinase in regulation of the c-Jun N-terminal kinase pathway and apoptosis in sympathetic neurons. <i>Molecular and Cellular Biology</i> , 2000 , 20, 196-204	4.8	157
102	Single-cell transcriptomic profiling of the aging mouse brain. <i>Nature Neuroscience</i> , 2019 , 22, 1696-1708	25.5	152
101	Regulation of acetylcholinesterase appearance at neuromuscular junctions in vitro. <i>Nature</i> , 1980 , 283, 264-7	50.4	151
100	Blocking cytochrome c activity within intact neurons inhibits apoptosis. <i>Journal of Cell Biology</i> , 1998 , 142, 1583-93	7.3	148
99	p120, a p120-related protein (p100), and the cadherin/catenin complex. <i>Journal of Cell Biology</i> , 1995 , 130, 369-81	7.3	136
98	Modeling pain in vitro using nociceptor neurons reprogrammed from fibroblasts. <i>Nature Neuroscience</i> , 2015 , 18, 17-24	25.5	135

97	Lysophosphatidic acid increases tight junction permeability in cultured brain endothelial cells. <i>Journal of Neurochemistry</i> , 1997 , 68, 991-1000	6	130
96	Stem cells and drug discovery: the beginning of a new era?. <i>Cell</i> , 2008 , 132, 549-52	56.2	122
95	Temporal gene expression during differentiation of human embryonic stem cells and embryoid bodies. <i>Human Reproduction</i> , 2004 , 19, 2875-83	5.7	121
94	Apoptosis: the cell cycle and cell death. <i>Current Biology</i> , 1993 , 3, 391-4	6.3	121
93	Hedgehog signaling controls dorsoventral patterning, blastema cell proliferation and cartilage induction during axolotl tail regeneration. <i>Development (Cambridge)</i> , 2005 , 132, 3243-53	6.6	120
92	Psychophysical scales of apparent heaviness and the size-weight illusion. <i>Perception & Psychophysics</i> , 1970 , 8, 225-230		118
91	Biochemistry and Biology of GDF11 and Myostatin: Similarities, Differences, and Questions for Future Investigation. <i>Circulation Research</i> , 2016 , 118, 1125-41; discussion 1142	15.7	116
90	The small GTP-binding protein Cdc42 is required for nerve growth factor withdrawal-induced neuronal death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 3984-9	11.5	112
89	Adenosine kinase inhibition selectively promotes rodent and porcine islet Ecell replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3915-20	11.5	111
88	Cooperation between sonic hedgehog and fibroblast growth factor/MAPK signalling pathways in neocortical precursors. <i>Development (Cambridge)</i> , 2004 , 131, 1289-98	6.6	104
87	Cell adhesion, cell junctions and the blood-brain barrier. <i>Current Opinion in Neurobiology</i> , 1996 , 6, 622-7	7.6	100
86	The hedgehog pathway and neurological disorders. <i>Annual Review of Neuroscience</i> , 2006 , 29, 539-63	17	98
85	Modulation of hair growth with small molecule agonists of the hedgehog signaling pathway. <i>Journal of Investigative Dermatology</i> , 2005 , 125, 638-46	4.3	98
84	Acetylcholine receptor clustering and nuclear movement in muscle fibers in culture. <i>Journal of Cell Biology</i> , 1987 , 104, 87-95	7.3	97
83	Dynamics of PARKIN-Dependent Mitochondrial Ubiquitylation in Induced Neurons and Model Systems Revealed by Digital Snapshot Proteomics. <i>Molecular Cell</i> , 2018 , 70, 211-227.e8	17.6	95
82	The Antisense Transcript SMN-AS1 Regulates SMN Expression and Is a Novel Therapeutic Target for Spinal Muscular Atrophy. <i>Neuron</i> , 2017 , 93, 66-79	13.9	90
81	Motoneurons derived from embryonic stem cells express transcription factors and develop phenotypes characteristic of medial motor column neurons. <i>Journal of Neuroscience</i> , 2006 , 26, 3256-68	6.6	88
80	Increased surface phosphatidylserine is an early marker of neuronal apoptosis. <i>Journal of Neuroscience Research</i> , 1997 , 48, 563-70	4.4	85

79	Programmed cell death in zebrafish rohn beard neurons is influenced by TrkC1/NT-3 signaling. <i>Developmental Biology</i> , 2000 , 226, 220-30	3.1	85
78	Reversal of cell de-differentiation by a small molecule inhibitor of the TGF β pathway. <i>ELife</i> , 2014 , 3, e02809	8.9	84
77	Endothelial cells: adhesion and tight junctions. <i>Current Opinion in Cell Biology</i> , 1992 , 4, 830-3	9	82
76	Genome-wide RNA-Seq of Human Motor Neurons Implicates Selective ER Stress Activation in Spinal Muscular Atrophy. <i>Cell Stem Cell</i> , 2015 , 17, 569-84	18	79
75	Therapeutic efficacy of sonic hedgehog protein in experimental diabetic neuropathy. <i>Journal of Clinical Investigation</i> , 2003 , 111, 507-514	15.9	72
74	A screen for regulators of survival of motor neuron protein levels. <i>Nature Chemical Biology</i> , 2011 , 7, 544-527	12.7	68
73	Material microenvironmental properties couple to induce distinct transcriptional programs in mammalian stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8368-E8377	11.5	67
72	Purification of a multipotent antideath activity from bovine liver and its identification as arginase: nitric oxide-independent inhibition of neuronal apoptosis. <i>Journal of Neuroscience</i> , 1998 , 18, 4083-95	6.6	67
71	Creating Patient-Specific Neural Cells for the In Vitro Study of Brain Disorders. <i>Stem Cell Reports</i> , 2015 , 5, 933-945	8	63
70	Regulation of nicotinic acetylcholine receptor phosphorylation in rat myotubes by forskolin and cAMP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 6591-5	11.5	63
69	Increases in muscle Ca ²⁺ mediate changes in acetylcholinesterase and acetylcholine receptors caused by muscle contraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 7121-5	11.5	62
68	Large-Scale Production of Mature Neurons from Human Pluripotent Stem Cells in a Three-Dimensional Suspension Culture System. <i>Stem Cell Reports</i> , 2016 , 6, 993-1008	8	61
67	Reactive Astrocytes Promote ALS-like Degeneration and Intracellular Protein Aggregation in Human Motor Neurons by Disrupting Autophagy through TGF β . <i>Stem Cell Reports</i> , 2017 , 9, 667-680	8	61
66	Double mode of action of black widow spider venom on frog neuromuscular junction. <i>Journal of Neurocytology</i> , 1978 , 7, 193-202		61
65	The molecular mechanisms of neuronal apoptosis. <i>Current Opinion in Neurobiology</i> , 1994 , 4, 696-702	7.6	57
64	Glucocorticoid compounds modify smoothed localization and hedgehog pathway activity. <i>Chemistry and Biology</i> , 2012 , 19, 972-82		54
63	Apoptosis in cerebellar granule neurones: involvement of interleukin-1 beta converting enzyme-like proteases. <i>Journal of Neurochemistry</i> , 1997 , 68, 1598-605	6	53
62	Targeting superficial or nodular Basal cell carcinoma with topically formulated small molecule inhibitor of smoothed. <i>Clinical Cancer Research</i> , 2011 , 17, 3378-87	12.9	52

61	Cloning of a cDNA encoding the rat high molecular weight neurofilament peptide (NF-H): developmental and tissue expression in the rat, and mapping of its human homologue to chromosomes 1 and 22. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 2463-7	11.5	52
60	Differentiation of brain endothelial cells in cell culture. <i>Annals of the New York Academy of Sciences</i> , 1991 , 633, 420-5	6.5	51
59	A cell-autonomous defect in skeletal muscle satellite cells expressing low levels of survival of motor neuron protein. <i>Developmental Biology</i> , 2012 , 368, 323-34	3.1	50
58	A specific population of gonadotrophs purified from immature female rat pituitary. <i>Science</i> , 1976 , 194, 848-51	33.3	49
57	Notch inhibition allows oncogene-independent generation of iPS cells. <i>Nature Chemical Biology</i> , 2014 , 10, 632-639	11.7	48
56	Protection against blood-brain barrier disruption in focal cerebral ischemia by the type IV phosphodiesterase inhibitor BBB022: a quantitative study. <i>Brain Research</i> , 1998 , 787, 277-85	3.7	45
55	Treatment with BBB022A or rolipram stabilizes the blood-brain barrier in experimental autoimmune encephalomyelitis: an additional mechanism for the therapeutic effect of type IV phosphodiesterase inhibitors. <i>Journal of Neuroimmunology</i> , 1999 , 97, 119-28	3.5	44
54	Discovery and preclinical development of vismodegib. <i>Expert Opinion on Drug Discovery</i> , 2014 , 9, 969-84	6.2	43
53	Dephosphorylation of the cadherin-associated p100/p120 proteins in response to activation of protein kinase C in epithelial cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 31894-901	5.4	42
52	Potent inhibitors of the hedgehog signaling pathway. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 1108-10	8.3	41
51	Selective identification of hedgehog pathway antagonists by direct analysis of smoothed ciliary translocation. <i>ACS Chemical Biology</i> , 2012 , 7, 1040-8	4.9	37
50	Subtly Modulating Glycogen Synthase Kinase 3 β Allosteric Inhibitor Development and Their Potential for the Treatment of Chronic Diseases. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 4983-5001	8.3	36
49	Effect of concanavalin A on black widow spider venom activity at the neuromuscular junction: implications for mechanisms of venom action. <i>Brain Research</i> , 1978 , 143, 107-24	3.7	36
48	Growth Differentiation Factor 11 treatment leads to neuronal and vascular improvements in the hippocampus of aged mice. <i>Scientific Reports</i> , 2018 , 8, 17293	4.9	36
47	Stem cell biology and drug discovery. <i>BMC Biology</i> , 2011 , 9, 42	7.3	32
46	Genetic circuitry of Survival motor neuron, the gene underlying spinal muscular atrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2371-80	11.5	31
45	Single-Cell Analysis of SMN Reveals Its Broader Role in Neuromuscular Disease. <i>Cell Reports</i> , 2017 , 18, 1484-1498	10.6	29
44	Assays for the identification and prioritization of drug candidates for spinal muscular atrophy. <i>Assay and Drug Development Technologies</i> , 2014 , 12, 315-41	2.1	29

43	Neuronal cell death: when, why and how. <i>British Medical Bulletin</i> , 1997 , 53, 617-31	5.4	29
42	Identification of a Maleimide-Based Glycogen Synthase Kinase-3 (GSK-3) Inhibitor, BIP-135, that Prolongs the Median Survival Time of β SMA KO Mouse Model of Spinal Muscular Atrophy. <i>ACS Chemical Neuroscience</i> , 2012 , 3, 5-11	5.7	27
41	MAP4K4 Activation Mediates Motor Neuron Degeneration in Amyotrophic Lateral Sclerosis. <i>Cell Reports</i> , 2019 , 26, 1143-1156.e5	10.6	24
40	Systemic nature of spinal muscular atrophy revealed by studying insurance claims. <i>PLoS ONE</i> , 2019 , 14, e0213680	3.7	24
39	The blood-brain barrier in and out of cell culture. <i>Current Opinion in Neurobiology</i> , 1991 , 1, 360-3	7.6	23
38	Aggregated SOD1 causes selective death of cultured human motor neurons. <i>Scientific Reports</i> , 2018 , 8, 16393	4.9	23
37	Toward Precision Medicine for Neurological and Neuropsychiatric Disorders. <i>Cell Stem Cell</i> , 2018 , 23, 21-24	18	22
36	Pathogenic Pathways in Early-Onset Autosomal Recessive Parkinson Disease Discovered Using Isogenic Human Dopaminergic Neurons. <i>Stem Cell Reports</i> , 2020 , 14, 75-90	8	18
35	Potent agonists of the Hedgehog signaling pathway. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 4308-11	2.9	17
34	Morphological and biochemical changes in neurons: apoptosis versus mitosis. <i>European Journal of Neuroscience</i> , 1996 , 8, 1906-15	3.5	17
33	Blocking p62-dependent SMN degradation ameliorates spinal muscular atrophy disease phenotypes. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3008-3023	15.9	16
32	Modeling alpha-synuclein pathology in a human brain-chip to assess blood-brain barrier disruption. <i>Nature Communications</i> , 2021 , 12, 5907	17.4	14
31	Growth differentiation factor 11 (GDF11) has pronounced effects on skin biology. <i>PLoS ONE</i> , 2019 , 14, e0218035	3.7	12
30	Two populations of AChR in rat myotubes have different degradation rates and responses to cAMP. <i>Experimental Cell Research</i> , 1993 , 208, 44-7	4.2	12
29	Cellular and secreted forms of acetylcholinesterase in mouse muscle cultures. <i>Journal of Neurochemistry</i> , 1985 , 45, 1932-40	6	12
28	A large-scale drug screen identifies selective inhibitors of class I HDACs as a potential therapeutic option for SHH medulloblastoma. <i>Neuro-Oncology</i> , 2019 , 21, 1150-1163	1	11
27	Using intracellular markers to identify a novel set of surface markers for live cell purification from a heterogeneous hiPSC culture. <i>Scientific Reports</i> , 2018 , 8, 804	4.9	11
26	A neuroprotective agent that inactivates prodegenerative TrkA and preserves mitochondria. <i>Journal of Cell Biology</i> , 2017 , 216, 3655-3675	7.3	11

25	Applying Deep Neural Network Analysis to High-Content Image-Based Assays. <i>SLAS Discovery</i> , 2019 , 24, 829-841	3.4	10
24	Studying human disease using human neurons. <i>Brain Research</i> , 2017 , 1656, 40-48	3.7	8
23	Suppression of MAP4K4 Signaling Ameliorates Motor Neuron Degeneration in Amyotrophic Lateral Sclerosis-Molecular Studies Toward New Therapeutics. <i>Journal of Experimental Neuroscience</i> , 2019 , 13, 1179069519862798	3.6	8
22	Global strategic partnerships in regenerative medicine. <i>Trends in Biotechnology</i> , 2014 , 32, 436-40	15.1	8
21	Patient hiPSCs Identify Vascular Smooth Muscle Arylacetamide Deacetylase as Protective against Atherosclerosis. <i>Cell Stem Cell</i> , 2020 , 27, 147-157.e7	18	7
20	CRH Promotes the Neurogenic Activity of Neural Stem Cells in the Adult Hippocampus. <i>Cell Reports</i> , 2019 , 29, 932-945.e7	10.6	7
19	Sonic Hedgehog Is Required for Progenitor Cell Maintenance in Telencephalic Stem Cell Niches. <i>Neuron</i> , 2003 , 40, 189-190	13.9	7
18	Generation of subunit-specific antibody probes for Torpedo acetylcholinesterase: cross-species reactivity and use in cell-free translations. <i>Journal of Neurobiology</i> , 1987 , 18, 75-99		6
17	Genetic modifiers ameliorate endocytic and neuromuscular defects in a model of spinal muscular atrophy. <i>BMC Biology</i> , 2020 , 18, 127	7.3	6
16	Young systemic factors as a medicine for age-related neurodegenerative diseases. <i>Neurogenesis (Austin, Tex)</i> , 2015 , 2, e1004971		5
15	Molecular modifications during nerve-muscle synapse formation. <i>Progress in Brain Research</i> , 1987 , 71, 383-9	2.9	5
14	Effect of cytochalasin B on neuromuscular transmission in tissue culture. <i>Brain Research</i> , 1976 , 104, 171-5.7		5
13	Neural regulation of properties of the nicotinic acetylcholine receptor. <i>Journal of Receptors and Signal Transduction</i> , 1988 , 8, 161-81		4
12	Single-cell transcriptomics of the aged mouse brain reveals convergent, divergent and unique aging signatures ⁴		
11	A non-peptidyl neurotrophic small molecule for midbrain dopaminergic neurons. <i>Journal of Neurochemistry</i> , 2004 , 89, 1387-95	6	3
10	Using Automated Live Cell Imaging to Reveal Early Changes during Human Motor Neuron Degeneration. <i>ENeuro</i> , 2018 , 5,	3.9	3
9	Pro-myogenic small molecules revealed by a chemical screen on primary muscle stem cells. <i>Skeletal Muscle</i> , 2020 , 10, 28	5.1	2
8	GDF11 expressed in the adult brain negatively regulates hippocampal neurogenesis. <i>Molecular Brain</i> , 2021 , 14, 134	4.5	2

7	Accelerating diagnosis of Parkinson's disease through risk prediction. <i>BMC Neurology</i> , 2021 , 21, 201	3.1	1
6	Resolving cell state in iPSC-derived human neural samples with multiplexed fluorescence imaging. <i>Communications Biology</i> , 2021 , 4, 786	6.7	1
5	Topoisomerase I inhibition and peripheral nerve injury induce DNA breaks and ATF3-associated axon regeneration in sensory neurons. <i>Cell Reports</i> , 2021 , 36, 109666	10.6	1
4	Assessing kinetics and recruitment of DNA repair factors using high content screens. <i>Cell Reports</i> , 2021 , 37, 110176	10.6	0
3	Synthetic modified Fezf2 mRNA (modRNA) with concurrent small molecule SIRT1 inhibition enhances refinement of cortical subcerebral/corticospinal neuron identity from mouse embryonic stem cells. <i>PLoS ONE</i> , 2021 , 16, e0254113	3.7	0
2	Modulating the Hedgehog Pathway in Diseases 2006 , 210-214		
1	High-Content Small Molecule Screening Strategies for Stem-Cell-Derived Motor Neurons. <i>Methods in Cell Biology</i> , 2012 , 112, 339-359	1.8	