

# Leslie A Crews

## List of Publications by Year in descending order

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93  
papers

10,091  
citations

38660

50  
h-index

64668

79  
g-index

98  
all docs

98  
docs citations

98  
times ranked

13288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusion formation and neuronal cell death through neuron-to-neuron transmission of $\hat{\pm}$ -synuclein. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13010-13015.	3.3	1,308
2	Molecular mechanisms of neurodegeneration in Alzheimer's disease. Human Molecular Genetics, 2010, 19, R12-R20.	1.4	561
3	Effects of $\hat{\pm}$ -Synuclein Immunization in a Mouse Model of Parkinson's Disease. Neuron, 2005, 46, 857-868.	3.8	533
4	Role of Protein Aggregation in Mitochondrial Dysfunction and Neurodegeneration in Alzheimer's and Parkinson's Diseases. NeuroMolecular Medicine, 2003, 4, 21-36.	1.8	410
5	Distribution of Aqueous-Deficient and Evaporative Dry Eye in a Clinic-Based Patient Cohort. Cornea, 2012, 31, 472-478.	0.9	410
6	Targeting BACE1 with siRNAs ameliorates Alzheimer disease neuropathology in a transgenic model. Nature Neuroscience, 2005, 8, 1343-1349.	7.1	385
7	Passive Immunization Reduces Behavioral and Neuropathological Deficits in an Alpha-Synuclein Transgenic Model of Lewy Body Disease. PLoS ONE, 2011, 6, e19338.	1.1	375
8	Selective Molecular Alterations in the Autophagy Pathway in Patients with Lewy Body Disease and in Models of $\hat{\pm}$ -Synucleinopathy. PLoS ONE, 2010, 5, e9313.	1.1	327
9	Deficiency in neuronal TGF- $\hat{\beta}$ 2 signaling promotes neurodegeneration and Alzheimer's pathology. Journal of Clinical Investigation, 2006, 116, 3060-3069.	3.9	302
10	Correlations between commonly used objective signs and symptoms for the diagnosis of dry eye disease: clinical implications. Acta Ophthalmologica, 2014, 92, 161-166.	0.6	280
11	Neuroprotective Effects of Regulators of the Glycogen Synthase Kinase-3 $\hat{\beta}$ Signaling Pathway in a Transgenic Model of Alzheimer's Disease Are Associated with Reduced Amyloid Precursor Protein Phosphorylation. Journal of Neuroscience, 2007, 27, 1981-1991.	1.7	265
12	Mechanisms of Hybrid Oligomer Formation in the Pathogenesis of Combined Alzheimer's and Parkinson's Diseases. PLoS ONE, 2008, 3, e3135.	1.1	233
13	Neurological and Neurodegenerative Alterations in a Transgenic Mouse Model Expressing Human $\hat{\beta}$ -Synuclein under Oligodendrocyte Promoter: Implications for Multiple System Atrophy. Journal of Neuroscience, 2005, 25, 10689-10699.	1.7	217
14	Increased BMP6 Levels in the Brains of Alzheimer's Disease Patients and APP Transgenic Mice Are Accompanied by Impaired Neurogenesis. Journal of Neuroscience, 2010, 30, 12252-12262.	1.7	189
15	Progressive accumulation of amyloid oligomers in Alzheimer's disease and in amyloid precursor protein transgenic mice is accompanied by selective alterations in synaptic scaffold proteins. FEBS Journal, 2010, 277, 3051-3067.	2.2	188
16	ADAR1 Activation Drives Leukemia Stem Cell Self-Renewal by Impairing Let-7 Biogenesis. Cell Stem Cell, 2016, 19, 177-191.	5.2	182
17	Clinical Utility of Objective Tests for Dry Eye Disease. Cornea, 2012, 31, 1000-1008.	0.9	170
18	Dynamics of $\hat{\pm}$ -synuclein aggregation and inhibition of pore-like oligomer development by $\hat{\beta}$ -synuclein. FEBS Journal, 2007, 274, 1862-1877.	2.2	149

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19	ADAR1 promotes malignant progenitor reprogramming in chronic myeloid leukemia. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1041-1046.	3.3	148
20	Statins reduce neuronal $\alpha$ -synuclein aggregation in <i>in vitro</i> models of Parkinson's disease. Journal of Neurochemistry, 2008, 105, 1656-1667.	2.1	147
21	Role of $\alpha$ -synuclein penetration into the membrane in the mechanisms of oligomer pore formation. FEBS Journal, 2012, 279, 1000-1013.	2.2	146
22	Mutant Pink1 induces mitochondrial dysfunction in a neuronal cell model of Parkinson's disease by disturbing calcium flux. Journal of Neurochemistry, 2009, 108, 1561-1574.	2.1	139
23	$\alpha$ -Synuclein Alters Notch-1 Expression and Neurogenesis in Mouse Embryonic Stem Cells and in the Hippocampus of Transgenic Mice. Journal of Neuroscience, 2008, 28, 4250-4260.	1.7	127
24	Pathogenesis of Hepatitis C Virus Coinfection in the Brains of Patients Infected with HIV. Journal of Infectious Diseases, 2007, 196, 361-370.	1.9	125
25	Synaptic remodeling during aging and in Alzheimer's disease. Journal of Alzheimer's Disease, 2006, 9, 91-99.	1.2	111
26	Effects of Cerebrolysin on neurogenesis in an APP transgenic model of Alzheimer's disease. Acta Neuropathologica, 2007, 113, 265-275.	3.9	109
27	Cerebrolysin decreases amyloid- $\beta$ production by regulating amyloid protein precursor maturation in a transgenic model of Alzheimer's disease. Journal of Neuroscience Research, 2006, 83, 1252-1261.	1.3	98
28	RNA Splicing Modulation Selectively Impairs Leukemia Stem Cell Maintenance in Secondary Human AML. Cell Stem Cell, 2016, 19, 599-612.	5.2	97
29	An antiaggregation gene therapy strategy for Lewy body disease utilizing $\beta$ -synuclein lentivirus in a transgenic model. Gene Therapy, 2004, 11, 1713-1723.	2.3	95
30	Cognitive deficits and degeneration of interneurons in HIV+ methamphetamine users. Neurology, 2006, 67, 1486-1489.	1.5	95
31	Patterns of gene dysregulation in the frontal cortex of patients with HIV encephalitis. Journal of Neuroimmunology, 2004, 157, 163-175.	1.1	94
32	$\beta$ -Synuclein Regulates Akt Activity in Neuronal Cells. Journal of Biological Chemistry, 2004, 279, 23622-23629.	1.6	93
33	APP transgenic modeling of Alzheimer's disease: mechanisms of neurodegeneration and aberrant neurogenesis. Brain Structure and Function, 2010, 214, 111-126.	1.2	92
34	High $\beta$ -Secretase Activity Elicits Neurodegeneration in Transgenic Mice Despite Reductions in Amyloid- $\beta$ Levels. Journal of Biological Chemistry, 2005, 280, 32957-32967.	1.6	89
35	Alu-dependent RNA editing of GLI1 promotes malignant regeneration in multiple myeloma. Nature Communications, 2017, 8, 1922.	5.8	89
36	RNA editing-dependent epitranscriptome diversity in cancer stem cells. Nature Reviews Cancer, 2017, 17, 381-392.	12.8	86

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37	Lysosomal pathology associated with $\beta$ -synuclein accumulation in transgenic models using an eGFP fusion protein. <i>Journal of Neuroscience Research</i> , 2005, 80, 247-259.	1.3	77
38	Astroglial Activation of Extracellular-Regulated Kinase in Early Stages of Alzheimer Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006, 65, 142-151.	0.9	77
39	Transgenic animal models of neurodegenerative diseases and their application to treatment development. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1093-1102.	6.6	77
40	Escalating dose-multiple binge methamphetamine exposure results in degeneration of the neocortex and limbic system in the rat. <i>Experimental Neurology</i> , 2007, 207, 42-51.	2.0	75
41	Neuropeptide Y Fragments Derived from Neprilysin Processing Are Neuroprotective in a Transgenic Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2009, 29, 1115-1125.	1.7	75
42	Long-term neprilysin gene transfer is associated with reduced levels of intracellular A $\beta$ and behavioral improvement in APP transgenic mice. <i>BMC Neuroscience</i> , 2008, 9, 109.	0.8	74
43	Role of Synucleins in Alzheimer's Disease. <i>Neurotoxicity Research</i> , 2009, 16, 306-317.	1.3	73
44	Modulation of aberrant CDK5 signaling rescues impaired neurogenesis in models of Alzheimer's disease. <i>Cell Death and Disease</i> , 2011, 2, e120-e120.	2.7	69
45	Molecular Pathology of Neuro-AIDS (CNS-HIV). <i>International Journal of Molecular Sciences</i> , 2009, 10, 1045-1063.	1.8	67
46	$\beta$ -Synuclein Induces Alterations in Adult Neurogenesis in Parkinson Disease Models via p53-mediated Repression of Notch1. <i>Journal of Biological Chemistry</i> , 2012, 287, 31691-31702.	1.6	64
47	Selective elimination of leukemia stem cells: Hitting a moving target. <i>Cancer Letters</i> , 2013, 338, 15-22.	3.2	59
48	Insights into the Pathogenesis of Hydrocephalus from Transgenic and Experimental Animal Models. <i>Brain Pathology</i> , 2004, 14, 312-316.	2.1	58
49	The role of mitochondrial alterations in the combined toxic effects of human immunodeficiency virus Tat protein and methamphetamine on calbindin positive-neurons. <i>Journal of NeuroVirology</i> , 2004, 10, 327-337.	1.0	57
50	Increased CDK5 Expression in HIV Encephalitis Contributes to Neurodegeneration via Tau Phosphorylation and Is Reversed with Roscovitine. <i>American Journal of Pathology</i> , 2011, 178, 1646-1661.	1.9	56
51	$\beta$ -Synuclein Aggregates Interfere with Parkin Solubility and Distribution. <i>Journal of Biological Chemistry</i> , 2008, 283, 6979-6987.	1.6	54
52	Amelioration of the cerebrovascular amyloidosis in a transgenic model of Alzheimer's disease with the neurotrophic compound Cerebrolysin?. <i>Journal of Neural Transmission</i> , 2005, 112, 269-282.	1.4	50
53	Mechanisms of HIV-1 Tat Neurotoxicity via CDK5 Translocation and Hyper-Activation: Role in HIV-Associated Neurocognitive Disorders. <i>Current HIV Research</i> , 2015, 13, 43-54.	0.2	48
54	An RNA editing fingerprint of cancer stem cell reprogramming. <i>Journal of Translational Medicine</i> , 2015, 13, 52.	1.8	46

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55	The Role of Î±-Synuclein Assembly and Metabolism in the Pathogenesis of Lewy Body Disease. <i>Journal of Molecular Neuroscience</i> , 2004, 24, 343-352.	1.1	45
56	Chronic Myeloid Leukemia Stem Cell Biology. <i>Current Hematologic Malignancy Reports</i> , 2012, 7, 125-132.	1.2	40
57	Neurofibrillary and neurodegenerative pathology in APP-transgenic mice injected with AAV2-mutant TAU: neuroprotective effects of Cerebrolysin. <i>Acta Neuropathologica</i> , 2009, 117, 699-712.	3.9	39
58	Multiple myeloma-derived Jagged ligands increases autocrine and paracrine interleukin-6 expression in bone marrow niche. <i>Oncotarget</i> , 2016, 7, 56013-56029.	0.8	34
59	Neurotoxic effects of the HCV core protein are mediated by sustained activation of ERK via TLR2 signaling. <i>Journal of NeuroVirology</i> , 2011, 17, 327-340.	1.0	33
60	NOTCH1 Signaling Promotes Human T-Cell Acute Lymphoblastic Leukemia Initiating Cell Regeneration in Supportive Niches. <i>PLoS ONE</i> , 2012, 7, e39725.	1.1	31
61	Phosphorylation of collapsin response mediator protein-2 disrupts neuronal maturation in a model of adult neurogenesis: Implications for neurodegenerative disorders. <i>Molecular Neurodegeneration</i> , 2011, 6, 67.	4.4	29
62	Neuroprotective effects of the anti-cancer drug sunitinib in models of HIV neurotoxicity suggests potential for the treatment of neurodegenerative disorders. <i>British Journal of Pharmacology</i> , 2014, 171, 5757-5773.	2.7	29
63	Selective antisense oligonucleotide inhibition of human IRF4 prevents malignant myeloma regeneration via cell cycle disruption. <i>Cell Stem Cell</i> , 2021, 28, 623-636.e9.	5.2	29
64	Toll-like receptor pathway gene expression is associated with human immunodeficiency virus-associated neurodegeneration. <i>Journal of NeuroVirology</i> , 2007, 13, 496-503.	1.0	27
65	Neuronal injury in simian immunodeficiency virus and other animal models of neuroAIDS. <i>Journal of NeuroVirology</i> , 2008, 14, 327-339.	1.0	27
66	Novel strategies for Alzheimer's disease treatment. <i>Expert Opinion on Biological Therapy</i> , 2007, 7, 1853-1867.	1.4	26
67	Inflammation-driven deaminase deregulation fuels human pre-leukemia stem cell evolution. <i>Cell Reports</i> , 2021, 34, 108670.	2.9	22
68	Regional Comparison of the Neurogenic Effects of CNTF-Derived Peptides and Cerebrolysin in AÎ²PP Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2011, 27, 743-752.	1.2	19
69	Neurotrophic effects of Cerebrolysin in the Mecp2308/Y transgenic model of Rett syndrome. <i>Acta Neuropathologica</i> , 2008, 116, 425-437.	3.9	17
70	Climbing the Scaffolds of Parkinson's Disease Pathogenesis. <i>Neuron</i> , 2007, 53, 469-470.	3.8	9
71	Sensitive intranuclear flow cytometric quantification of IRF4 protein in multiple myeloma and normal human hematopoietic cells. <i>STAR Protocols</i> , 2021, 2, 100565.	0.5	3
72	Biological Transgenic Mouse Models of Alzheimer's Disease. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2008, 89, 291-301.	1.0	2

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73	A Highly Selective SF3B1-Targeted Splicing Inhibitor Reduces Human CD34+ Cell Survival and Self-Renewal In Acute Myeloid Leukemia. Blood, 2013, 122, 1653-1653.	0.6	2
74	Alpha-Synuclein and Neurodegeneration. , 2012, , 303-305.		1
75	Molecular Evolution of Leukemia Stem Cells. , 2013, , 449-458.		1
76	Comparative Inflammasome Analysis of Bone Marrow Stroma in Aging and Myelofibrosis. Blood, 2018, 132, 4331-4331.	0.6	1
77	Decoding the RNA Editome of Normal Versus Malignant Progenitor Cell Aging Short Title: RNA Editing in Normal Aging and MDS/AML Stem Cells. Blood, 2016, 128, 1519-1519.	0.6	1
78	Targeting Cancer Stem Cell Survival in Plasma Cell Leukemia with a Pan-BCL2 Inhibitor. Blood, 2015, 126, 5351-5351.	0.6	1
79	RNA Splicing Modulation Impairs Acute Myeloid Leukemia Stem Cell Maintenance. Blood, 2015, 126, 567-567.	0.6	1
80	Selective Targeting of Alternative Splicing Deregulation in Pediatric Acute Myeloid Stem and Progenitor Cells. Blood, 2020, 136, 8-8.	0.6	1
81	Corrigendum to "Patterns of gene dysregulation in the frontal cortex of patients with HIV encephalitis". Journal of Neuroimmunology, 2005, 162, 197.	1.1	0
82	Genetically Engineered Mouse Models of Neurodegenerative Disorders. , 2006, , 371-408.		0
83	Role of A $\beta$ Degrading Enzymes in Synaptic Plasticity and Neurogenesis in Alzheimer's Disease. , 2009, , 3-12.		0
84	Abstract 5217: RNA editing enzyme ADAR1 drives leukemia stem cell differentiation and self-renewal in chronic myeloid leukemia. , 2012, , .		0
85	Abstract 1011: NOTCH1 signaling is essential for leukemia initiating cell self-renewal in T-ALL. , 2012, , .		0
86	Inhibition Of Inflammation Driven Leukemia Stem Cell Self-Renewal With a Selective JAK2 Antagonist. Blood, 2013, 122, 1481-1481.	0.6	0
87	Tracking Human Myeloma Cell Therapeutic Resistance Using a Novel Diagnostic Assay for Detection of RNA Editing Biomarkers of Cancer Stem Cell Generation. Blood, 2014, 124, 3406-3406.	0.6	0
88	Regulation of Self-Renewal through Modulation of Let-7 Stem Cell Regulatory Family of microRNAs in Chronic Myeloid Leukemia Stem Cells. Blood, 2014, 124, 4527-4527.	0.6	0
89	Inflammatory Cytokine-Responsive ADAR1 Impairs Let-7 Biogenesis and Promotes Leukemia Stem Cell Generation. Blood, 2015, 126, 4014-4014.	0.6	0
90	Genetic Modulation of Adenosine-to-Inosine RNA Editing Selectively Disrupts Inflammasome and Extracellular Matrix Genes in Multiple Myeloma. Blood, 2018, 132, 1324-1324.	0.6	0

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91	Inflammatory Cytokine Responsive Enzymatic Mutagenesis Fuels Myeloproliferative Neoplasm Pre-Leukemia Stem Cell Evolution. Blood, 2019, 134, 3780-3780.	0.6	0
92	Deregulation of Splicing in Pediatric Acute Myeloid Stem and Progenitor Cells. Blood, 2021, 138, 2227-2227.	0.6	0
93	ADAR1 Splicing Modulation As a Mechanism to Eradicate Immunologically Silent Leukemia Stem Cells. Blood, 2021, 138, 3321-3321.	0.6	0