

Aaron D Gitler

List of Publications by Citations

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140
papers

15,773
citations

58
h-index

125
g-index

162
ext. papers

19,069
ext. citations

15.2
avg. IF

6.57
L-index

#	Paper	IF	Citations
140	Alpha-synuclein blocks ER-Golgi traffic and Rab1 rescues neuron loss in Parkinson ^R models. <i>Science</i> , 2006 , 313, 324-8	33.3	1084
139	Mutations in prion-like domains in hnRNPA2B1 and hnRNPA1 cause multisystem proteinopathy and ALS. <i>Nature</i> , 2013 , 495, 467-73	50.4	965
138	Ataxin-2 intermediate-length polyglutamine expansions are associated with increased risk for ALS. <i>Nature</i> , 2010 , 466, 1069-75	50.4	844
137	Exome sequencing in amyotrophic lateral sclerosis identifies risk genes and pathways. <i>Science</i> , 2015 , 347, 1436-41	33.3	642
136	Stress granules as crucibles of ALS pathogenesis. <i>Journal of Cell Biology</i> , 2013 , 201, 361-72	7.3	599
135	TDP-43 is intrinsically aggregation-prone, and amyotrophic lateral sclerosis-linked mutations accelerate aggregation and increase toxicity. <i>Journal of Biological Chemistry</i> , 2009 , 284, 20329-39	5.4	512
134	Alpha-synuclein is part of a diverse and highly conserved interaction network that includes PARK9 and manganese toxicity. <i>Nature Genetics</i> , 2009 , 41, 308-15	36.3	451
133	The tip of the iceberg: RNA-binding proteins with prion-like domains in neurodegenerative disease. <i>Brain Research</i> , 2012 , 1462, 61-80	3.7	450
132	The Parkinson ^R disease protein alpha-synuclein disrupts cellular Rab homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 145-50	11.5	415
131	Modifiers of C9orf72 dipeptide repeat toxicity connect nucleocytoplasmic transport defects to FTD/ALS. <i>Nature Neuroscience</i> , 2015 , 18, 1226-9	25.5	411
130	Molecular determinants and genetic modifiers of aggregation and toxicity for the ALS disease protein FUS/TLS. <i>PLoS Biology</i> , 2011 , 9, e1000614	9.7	321
129	A suite of Gateway cloning vectors for high-throughput genetic analysis in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2007 , 24, 913-9	3.4	320
128	A yeast TDP-43 proteinopathy model: Exploring the molecular determinants of TDP-43 aggregation and cellular toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6439-44	11.5	317
127	Semaphorin-plexin signaling guides patterning of the developing vasculature. <i>Developmental Cell</i> , 2004 , 7, 117-23	10.2	309
126	A yeast functional screen predicts new candidate ALS disease genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20881-90	11.5	302
125	PlexinD1 and semaphorin signaling are required in endothelial cells for cardiovascular development. <i>Developmental Cell</i> , 2004 , 7, 107-16	10.2	301
124	Genome-wide Analyses Identify KIF5A as a Novel ALS Gene. <i>Neuron</i> , 2018 , 97, 1268-1283.e6	13.9	296

123	Therapeutic reduction of ataxin-2 extends lifespan and reduces pathology in TDP-43 mice. <i>Nature</i> , 2017 , 544, 367-371	50.4	278
122	Defects in trafficking bridge Parkinson's disease pathology and genetics. <i>Nature</i> , 2016 , 539, 207-216	50.4	271
121	Therapeutic modulation of eIF2 β phosphorylation rescues TDP-43 toxicity in amyotrophic lateral sclerosis disease models. <i>Nature Genetics</i> , 2014 , 46, 152-60	36.3	256
120	Nuclear-Import Receptors Reverse Aberrant Phase Transitions of RNA-Binding Proteins with Prion-like Domains. <i>Cell</i> , 2018 , 173, 677-692.e20	56.2	246
119	Bridging high-throughput genetic and transcriptional data reveals cellular responses to alpha-synuclein toxicity. <i>Nature Genetics</i> , 2009 , 41, 316-23	36.3	242
118	Prion-like disorders: blurring the divide between transmissibility and infectivity. <i>Journal of Cell Science</i> , 2010 , 123, 1191-201	5.3	231
117	Local RNA translation at the synapse and in disease. <i>Journal of Neuroscience</i> , 2011 , 31, 16086-93	6.6	221
116	Evaluating the role of the FUS/TLS-related gene EWSR1 in amyotrophic lateral sclerosis. <i>Human Molecular Genetics</i> , 2012 , 21, 2899-911	5.6	207
115	Stress Granule Assembly Disrupts Nucleocytoplasmic Transport. <i>Cell</i> , 2018 , 173, 958-971.e17	56.2	195
114	Insertion of Cre into the Pax3 locus creates a new allele of Splotch and identifies unexpected Pax3 derivatives. <i>Developmental Biology</i> , 2005 , 280, 396-406	3.1	187
113	Spontaneous driving forces give rise to protein-RNA condensates with coexisting phases and complex material properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7889-7898	11.5	186
112	Drosophila screen connects nuclear transport genes to DPR pathology in c9ALS/FTD. <i>Scientific Reports</i> , 2016 , 6, 20877	4.9	179
111	Inhibition of RNA lariat debranching enzyme suppresses TDP-43 toxicity in ALS disease models. <i>Nature Genetics</i> , 2012 , 44, 1302-9	36.3	170
110	GTPase activity plays a key role in the pathobiology of LRRK2. <i>PLoS Genetics</i> , 2010 , 6, e1000902	6	163
109	The novel Parkinson's disease linked mutation G51D attenuates in vitro aggregation and membrane binding of β synuclein, and enhances its secretion and nuclear localization in cells. <i>Human Molecular Genetics</i> , 2014 , 23, 4491-509	5.6	153
108	Poly(GR) impairs protein translation and stress granule dynamics in C9orf72-associated frontotemporal dementia and amyotrophic lateral sclerosis. <i>Nature Medicine</i> , 2018 , 24, 1136-1142	50.5	149
107	Nf1 has an essential role in endothelial cells. <i>Nature Genetics</i> , 2003 , 33, 75-9	36.3	143
106	CCNF mutations in amyotrophic lateral sclerosis and frontotemporal dementia. <i>Nature Communications</i> , 2016 , 7, 11253	17.4	126

105	Parkinson's disease genes VPS35 and EIF4G1 interact genetically and converge on β -synuclein. <i>Neuron</i> , 2015 , 85, 76-87	13.9	122
104	A cellular system that degrades misfolded proteins and protects against neurodegeneration. <i>Molecular Cell</i> , 2014 , 55, 15-30	17.6	117
103	RNA-binding proteins with prion-like domains in ALS and FTLD-U. <i>Prion</i> , 2011 , 5, 179-87	2.3	114
102	Ataxin-2 intermediate-length polyglutamine expansions in European ALS patients. <i>Human Molecular Genetics</i> , 2011 , 20, 1697-700	5.6	112
101	Exome sequencing to identify de novo mutations in sporadic ALS trios. <i>Nature Neuroscience</i> , 2013 , 16, 851-5	25.5	112
100	CRISPR-Cas9 screens in human cells and primary neurons identify modifiers of C9ORF72 dipeptide-repeat-protein toxicity. <i>Nature Genetics</i> , 2018 , 50, 603-612	36.3	110
99	There has been an awakening: Emerging mechanisms of C9orf72 mutations in FTD/ALS. <i>Brain Research</i> , 2016 , 1647, 19-29	3.7	103
98	Profilin 1 associates with stress granules and ALS-linked mutations alter stress granule dynamics. <i>Journal of Neuroscience</i> , 2014 , 34, 8083-97	6.6	102
97	Axonal transport and secretion of fibrillar forms of β -synuclein, A β 2 peptide and HTTExon 1. <i>Acta Neuropathologica</i> , 2016 , 131, 539-48	14.3	98
96	A blinded international study on the reliability of genetic testing for GGGGCC-repeat expansions in C9orf72 reveals marked differences in results among 14 laboratories. <i>Journal of Medical Genetics</i> , 2014 , 51, 419-24	5.8	96
95	Molecular markers of cardiac endocardial cushion development. <i>Developmental Dynamics</i> , 2003 , 228, 643-50	2.9	94
94	Spt4 selectively regulates the expression of C9orf72 sense and antisense mutant transcripts. <i>Science</i> , 2016 , 353, 708-12	33.3	92
93	Compartmentalization of superoxide dismutase 1 (SOD1G93A) aggregates determines their toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15811-6	11.5	87
92	LRRK2 modifies β syn pathology and spread in mouse models and human neurons. <i>Acta Neuropathologica</i> , 2019 , 137, 961-980	14.3	78
91	Glycolytic Enzymes Coalesce in G Bodies under Hypoxic Stress. <i>Cell Reports</i> , 2017 , 20, 895-908	10.6	77
90	ALS Genetics: Gains, Losses, and Implications for Future Therapies. <i>Neuron</i> , 2020 , 108, 822-842	13.9	72
89	Kinetic analysis of npBAF to nBAF switching reveals exchange of SS18 with CREST and integration with neural developmental pathways. <i>Journal of Neuroscience</i> , 2013 , 33, 10348-61	6.6	68
88	PolyQ repeat expansions in ATXN2 associated with ALS are CAA interrupted repeats. <i>PLoS ONE</i> , 2011 , 6, e17951	3.7	64

87	ALS-associated ataxin 2 polyQ expansions enhance stress-induced caspase 3 activation and increase TDP-43 pathological modifications. <i>Journal of Neuroscience</i> , 2012 , 32, 9133-42	6.6	62
86	Knockout of reactive astrocyte activating factors slows disease progression in an ALS mouse model. <i>Nature Communications</i> , 2020 , 11, 3753	17.4	62
85	The modulation of Amyotrophic Lateral Sclerosis risk by ataxin-2 intermediate polyglutamine expansions is a specific effect. <i>Neurobiology of Disease</i> , 2012 , 45, 356-61	7.5	61
84	Fragile X protein mitigates TDP-43 toxicity by remodeling RNA granules and restoring translation. <i>Human Molecular Genetics</i> , 2015 , 24, 6886-98	5.6	59
83	Activation of HIPK2 Promotes ER Stress-Mediated Neurodegeneration in Amyotrophic Lateral Sclerosis. <i>Neuron</i> , 2016 , 91, 41-55	13.9	57
82	ATXN2 trinucleotide repeat length correlates with risk of ALS. <i>Neurobiology of Aging</i> , 2017 , 51, 178.e1-178.e9	38.9	55
81	Internalization, axonal transport and release of fibrillar forms of alpha-synuclein. <i>Neurobiology of Disease</i> , 2018 , 109, 219-225	7.5	54
80	RPS25 is required for efficient RAN translation of C9orf72 and other neurodegenerative disease-associated nucleotide repeats. <i>Nature Neuroscience</i> , 2019 , 22, 1383-1388	25.5	54
79	Distinct repertoires of microRNAs present in mouse astrocytes compared to astrocyte-secreted exosomes. <i>PLoS ONE</i> , 2017 , 12, e0171418	3.7	51
78	Prime time for alpha-synuclein. <i>Journal of Neuroscience</i> , 2007 , 27, 2433-4	6.6	46
77	Neurotoxic reactive astrocytes induce cell death via saturated lipids. <i>Nature</i> , 2021 , 599, 102-107	50.4	45
76	Discovery and characterization of three novel synuclein genes in zebrafish. <i>Developmental Dynamics</i> , 2008 , 237, 2490-5	2.9	41
75	Semisynthetic and in Vitro Phosphorylation of Alpha-Synuclein at Y39 Promotes Functional Partly Helical Membrane-Bound States Resembling Those Induced by PD Mutations. <i>ACS Chemical Biology</i> , 2016 , 11, 2428-37	4.9	39
74	Targeted exon capture and sequencing in sporadic amyotrophic lateral sclerosis. <i>PLoS Genetics</i> , 2014 , 10, e1004704	6	39
73	Toxic expanded GGGGCC repeat transcription is mediated by the PAF1 complex in C9orf72-associated FTD. <i>Nature Neuroscience</i> , 2019 , 22, 863-874	25.5	38
72	Efficient Prevention of Neurodegenerative Diseases by Depletion of Starvation Response Factor Ataxin-2. <i>Trends in Neurosciences</i> , 2017 , 40, 507-516	13.3	38
71	Beer and bread to brains and beyond: can yeast cells teach us about neurodegenerative disease?. <i>NeuroSignals</i> , 2008 , 16, 52-62	1.9	37
70	Tie2-Cre-induced inactivation of a conditional mutant Nf1 allele in mouse results in a myeloproliferative disorder that models juvenile myelomonocytic leukemia. <i>Pediatric Research</i> , 2004 , 55, 581-4	3.2	37

69	The role of the Parkinson's disease gene PANK2 in essential cellular pathways and the manganese homeostasis network in yeast. <i>PLoS ONE</i> , 2012 , 7, e34178	3.7	35
68	Nuclear transport dysfunction: a common theme in amyotrophic lateral sclerosis and frontotemporal dementia. <i>Journal of Neurochemistry</i> , 2016 , 138 Suppl 1, 134-44	6	35
67	Model organisms reveal insight into human neurodegenerative disease: ataxin-2 intermediate-length polyglutamine expansions are a risk factor for ALS. <i>Journal of Molecular Neuroscience</i> , 2011 , 45, 676-83	3.3	34
66	Distinct TDP-43 pathology in ALS patients with ataxin 2 intermediate-length polyQ expansions. <i>Acta Neuropathologica</i> , 2012 , 124, 221-30	14.3	32
65	Exome sequencing identifies a DNAJB6 mutation in a family with dominantly-inherited limb-girdle muscular dystrophy. <i>Neuromuscular Disorders</i> , 2014 , 24, 431-5	2.9	29
64	The epidemiology and genetics of Amyotrophic lateral sclerosis in China. <i>Brain Research</i> , 2018 , 1693, 121-126	3.7	26
63	p53 is a central regulator driving neurodegeneration caused by C9orf72 poly(PR). <i>Cell</i> , 2021 , 184, 689-706	3.2	26
62	Congenital muscular dystrophy and generalized epilepsy caused by GMPPB mutations. <i>Brain Research</i> , 2014 , 1575, 66-71	3.7	25
61	TDP-43 toxicity in yeast. <i>Methods</i> , 2011 , 53, 238-45	4.6	25
60	Evidence that alpha-synuclein does not inhibit phospholipase D. <i>Biochemistry</i> , 2009 , 48, 1077-83	3.2	25
59	Kermit 2/XGIPC, an IGF1 receptor interacting protein, is required for IGF signaling in Xenopus eye development. <i>Development (Cambridge)</i> , 2006 , 133, 3651-60	6.6	25
58	Single-cell transcriptomic analysis of the adult mouse spinal cord reveals molecular diversity of autonomic and skeletal motor neurons. <i>Nature Neuroscience</i> , 2021 , 24, 572-583	25.5	22
57	Genetic Spectrum and Variability in Chinese Patients with Amyotrophic Lateral Sclerosis 2019 , 10, 1199-1206		21
56	Symmetric dimethylation of poly-GR correlates with disease duration in C9orf72 FTL and ALS and reduces poly-GR phase separation and toxicity. <i>Acta Neuropathologica</i> , 2020 , 139, 407-410	14.3	20
55	Yeast screen for modifiers of C9orf72 poly(glycine-arginine) dipeptide repeat toxicity. <i>FEMS Yeast Research</i> , 2018 , 18,	3.1	19
54	Targeted next-generation sequencing improves diagnosis of hereditary spastic paraplegia in Chinese patients. <i>Journal of Molecular Medicine</i> , 2018 , 96, 701-712	5.5	19
53	Yeast genetic screen reveals novel therapeutic strategy for ALS. <i>Rare Diseases (Austin, Tex)</i> , 2013 , 1, e24420		17
52	Cloning and characterization of zebrafish tbx1. <i>Gene Expression Patterns</i> , 2003 , 3, 645-51	1.5	17

51	-derived arginine-containing dipeptide repeats associate with axonal transport machinery and impede microtubule-based motility. <i>Science Advances</i> , 2021 , 7,	14.3	17
50	A prion-like protein regulator of seed germination undergoes hydration-dependent phase separation. <i>Cell</i> , 2021 , 184, 4284-4298.e27	56.2	17
49	ERAD defects and the HFE-H63D variant are associated with increased risk of liver damages in Alpha 1-Antitrypsin Deficiency. <i>PLoS ONE</i> , 2017 , 12, e0179369	3.7	16
48	Evolution of a Human-Specific Tandem Repeat Associated with ALS. <i>American Journal of Human Genetics</i> , 2020 , 107, 445-460	11	15
47	A new approach for rare variation collapsing on functional protein domains implicates specific genic regions in ALS. <i>Genome Research</i> , 2019 , 29, 809-818	9.7	14
46	TDP-43 represses cryptic exon inclusion in the FTD-ALS gene UNC13A.. <i>Nature</i> , 2022 ,	50.4	14
45	BrainMap Elucidates the Macromolecular Connectivity Landscape of Mammalian Brain. <i>Cell Systems</i> , 2020 , 10, 333-350.e14	10.6	13
44	Evaluating noncoding nucleotide repeat expansions in amyotrophic lateral sclerosis. <i>Neurobiology of Aging</i> , 2014 , 35, 936.e1-4	5.6	13
43	Cell Biology. Clogging information flow in ALS. <i>Science</i> , 2014 , 345, 1118-9	33.3	12
42	Variants in KIAA0825 underlie autosomal recessive postaxial polydactyly. <i>Human Genetics</i> , 2019 , 138, 593-600	6.3	11
41	Genome-wide synthetic lethal CRISPR screen identifies FIS1 as a genetic interactor of ALS-linked C9ORF72. <i>Brain Research</i> , 2020 , 1728, 146601	3.7	11
40	TDP-43 in ALS: stay on target—almost there. <i>Neuron</i> , 2014 , 81, 463-5	13.9	9
39	A yeast model for polyaniline-expansion aggregation and toxicity. <i>Molecular Biology of the Cell</i> , 2011 , 22, 1971-84	3.5	9
38	Analysis of COPII Vesicles Indicates a Role for the Emp47-Ssp120 Complex in Transport of Cell Surface Glycoproteins. <i>Traffic</i> , 2016 , 17, 191-210	5.7	9
37	Regulating Heart Development: The Role of Nf1. <i>Cell Cycle</i> , 2003 , 2, 95-97	4.7	8
36	A versatile system to record cell-cell interactions. <i>ELife</i> , 2020 , 9,	8.9	8
35	C9orf72-derived arginine-containing dipeptide repeats associate with axonal transport machinery and impede microtubule-based motility		7
34	A modular platform for engineering function of natural and synthetic biomolecular condensates		6

33	Neuroscience. Another reason to exercise. <i>Science</i> , 2011 , 334, 606-7	33.3	5
32	Just Took a DNA Test, Turns Out 100% Not That Phase. <i>Molecular Cell</i> , 2020 , 78, 193-194	17.6	5
31	Pour Some Sugar on TDP(-43). <i>Molecular Cell</i> , 2018 , 71, 649-651	17.6	5
30	Ataxin-2 Is DroppinRSome Knowledge. <i>Neuron</i> , 2018 , 98, 673-675	13.9	5
29	Raise the Roof: Boosting the Efficacy of a Spinal Muscular Atrophy Therapy. <i>Neuron</i> , 2017 , 93, 3-5	13.9	4
28	High-throughput yeast plasmid overexpression screen. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	4
27	It's all starting to come together. <i>ELife</i> , 2015 , 4,	8.9	4
26	A matter of balance. <i>ELife</i> , 2018 , 7,	8.9	4
25	Regulating heart development: the role of Nf1. <i>Cell Cycle</i> , 2003 , 2, 96-8	4.7	4
24	Loss of CREST leads to neuroinflammatory responses and ALS-like motor defects in mice. <i>Translational Neurodegeneration</i> , 2019 , 8, 13	10.3	3
23	Phosphorylation Leads the Way for Protein Aggregate Disassembly. <i>Developmental Cell</i> , 2018 , 45, 279-288	10.2	3
22	Parallel PARKing: Parkinson's genes function in common pathway. <i>Neuron</i> , 2013 , 77, 377-9	13.9	3
21	Old moms say, no Sir. <i>Science</i> , 2017 , 355, 1126-1127	33.3	2
20	Identification and functional analysis of novel mutations in the gene in Chinese patients with amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2019 , 20, 222-228	3.6	2
19	A memory of eS25 loss drives resistance phenotypes. <i>Nucleic Acids Research</i> , 2020 , 48, 7279-7297	20.1	2
18	Genome-Wide Analyses Identify KIF5A as a Novel ALS Gene. <i>SSRN Electronic Journal</i> ,	1	2
17	Single-cell transcriptomic analysis of the adult mouse spinal cord		2
16	Hydration-dependent phase separation of a prion-like protein regulates seed germination during water stress		2

15	Regional Collapsing of Rare Variation Implicates Specific Genic Regions in ALS		2
14	Neurodegeneration: A Leg Up on TDP-43. <i>Current Biology</i> , 2015 , 25, R728-31	6.3	1
13	Axons Gonna Ride But They Can't No More. <i>Neuron</i> , 2019 , 104, 179-181	13.9	1
12	CRISPR-Cas9 screens in human cells and primary neurons identify modifiers of C9orf72 dipeptide repeat protein toxicity		1
11	Susan Lee Lindquist (1949-2016). <i>Nature</i> , 2016 , 540, 40	50.4	1
10	Hunting the G-unit in Huntington's. <i>Brain</i> , 2018 , 141, 1586-1589	11.2	1
9	An optimized ATAC-seq protocol for genome-wide mapping of active regulatory elements in primary mouse cortical neurons. <i>STAR Protocols</i> , 2021 , 2, 100854	1.4	0
8	Cracking the cryptic code in amyotrophic lateral sclerosis and frontotemporal dementia: Towards therapeutic targets and biomarkers.. <i>Clinical and Translational Medicine</i> , 2022 , 12, e818	5.7	0
7	[O10306]: IDENTIFICATION OF AN ITGA7 VARIANT ASSOCIATED WITH ALZHEIMER'S DISEASE AND MULTIPLE OTHER NEURODEGENERATIVE DISEASES 2017 , 13, P193-P194		
6	[P2096]: NOVEL MISSENSE VARIANT ON EPHA1 IN A PROTECTED APOE4 FAMILY 2017 , 13, P643-P644		
5	[PL-050101]: CELLULAR MECHANISMS OF FRONTOTEMPORAL LOBAR DEGENERATION (FTLD) 2017 , 13, P1451		
4	P1-135: RARE MISSENSE VARIANTS ON ZNF679 AND CTD-3214H19.16 SEGREGATE IN A FAMILY WITH A HISTORY OF SYNUCLEINOPATHY 2018 , 14, P324-P324		
3	In search of lost trafficking. <i>Brain</i> , 2018 , 141, 3282-3285	11.2	
2	Confirming Pathogenicity of the F386L Variant in a South Asian Family With Early-Onset Alzheimer Disease.. <i>Neurology: Genetics</i> , 2022 , 8, e647	3.8	
1	Why you always in a mood? Pumpin' polyP, actin's brand new.. <i>Neuron</i> , 2022 , 110, 1603-1605	13.9	