Maurice S Swanson

List of Publications by Year
in descending order

116 papers	15,763 citations	23544 58 h-index	24961 109 g-index
126 all docs	126 docs citations	126 times ranked	12020 citing authors

#	Article	IF	Citations
1	Myotonic dystrophy type 1 embryonic stem cells show decreased myogenic potential, increased CpG methylation at the DMPK locus and RNA mis-splicing. Biology Open, 2022, 11, .	0.6	8
2	The X-linked splicing regulator MBNL3 has been co-opted to restrict placental growth in eutherians. PLoS Biology, 2022, 20, e3001615.	2.6	4
3	RNA structure probing to characterize RNAâ€“protein interactions on low abundance pre-mRNA in living cells. Rna, 2021, 27, 343-358.	1.6	6
4	The sustained expression of Cas9 targeting toxic RNAs reverses disease phenotypes in mouse models of myotonic dystrophy type 1. Nature Biomedical Engineering, 2021, 5, 157-168.	11.6	37
5	Generation of a Novel SARS-CoV-2 Sub-genomic RNA Due to the R203K/G204R Variant in Nucleocapsid: Homologous Recombination has Potential to Change SARS-CoV-2 at Both Protein and RNA Level. Pathogens and Immunity, 2021, 6, 27-49.	1.4	10
6	Arp2/3 and Mena/VASP Require Profilin 1 for Actin Network Assembly at the Leading Edge. Current Biology, 2020, 30, 2651-2664.e5.	1.8	52
7	UTteR control through miRs: fine-tuning ATXN1 levels to prevent ataxia. Genes and Development, 2020, 34, 1107-1109.	2.7	0
8	HNRNPA1-induced spliceopathy in a transgenic mouse model of myotonic dystrophy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5472-5477.	3.3	31
9	Loss of MBNL1 induces RNA misprocessing in the thymus and peripheral blood. Nature Communications, 2020, 11, 2022.	5.8	15
10	Methylphenidate Attenuates the Cognitive and Mood Alterations Observed inMbnl2Knockout Mice and Reduces Microglia Overexpression. Cerebral Cortex, 2019, 29, 2978-2997.	1.6	20
11	Short Tandem Repeat Expansions and RNA-Mediated Pathogenesis in Myotonic Dystrophy. International Journal of Molecular Sciences, 2019, 20, 3365.	1.8	69
12	Cell-type-specific dysregulation of RNA alternative splicing in short tandem repeat mouse knockin models of myotonic dystrophy. Genes and Development, 2019, 33, 1635-1640.	2.7	14
13	Characterization of gene regulation and protein interaction networks for Matrin 3 encoding mutations linked to amyotrophic lateral sclerosis and myopathy. Scientific Reports, 2018, 8, 4049.	1.6	30
14	Intron retention induced by microsatellite expansions as a disease biomarker. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4234-4239.	3.3	96
15	Altered levels of the splicing factor muscleblind modifies cerebral cortical function in mouse models of myotonic dystrophy. Neurobiology of Disease, 2018, 112, 35-48.	2.1	9
16	STRring up Cancer with lncRNA. Molecular Cell, 2018, 72, 399-401.	4.5	7
17	MBNL splicing activity depends on RNA binding site structural context. Nucleic Acids Research, 2018, 46, 9119-9133.	6.5	28
18	Precise temporal regulation of alternative splicing during neural development. Nature Communications, 2018, 9, 2189.	5.8	155

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19	Myotonic Dystrophy and Developmental Regulation of RNA Processing. , 2018, 8, 509-553.		26
20	Aberrant Myokine Signaling in Congenital Myotonic Dystrophy. Cell Reports, 2017, 21, 1240-1252.	2.9	40
21	Impeding Transcription of Expanded Microsatellite Repeats by Deactivated Cas9. Molecular Cell, 2017, 68, 479-490.e5.	4.5	99
22	RAN Translation Regulated by Muscleblind Proteins in Myotonic Dystrophy Type 2. Neuron, 2017, 95, 1292-1305.e5.	3.8	116
23	Elimination of Toxic Microsatellite Repeat Expansion RNA by RNA-Targeting Cas9. Cell, 2017, 170, 899-912.e10.	13.5	213
24	Disrupted prenatal RNA processing and myogenesis in congenital myotonic dystrophy. Genes and Development, 2017, 31, 1122-1133.	2.7	80
25	Downregulation of the Glial GLT1 Glutamate Transporter and Purkinje Cell Dysfunction in a Mouse Model of Myotonic Dystrophy. Cell Reports, 2017, 19, 2718-2729.	2.9	33
26	SFMetaDB: a comprehensive annotation of mouse RNA splicing factor RNA-Seq datasets. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	1.4	12
27	Splicing misregulation of SCN5A contributes to cardiac-conduction delay and heart arrhythmia in myotonic dystrophy. Nature Communications, 2016, 7, 11067.	5.8	155
28	Distal Alternative Last Exons Localize mRNAs to Neural Projections. Molecular Cell, 2016, 61, 821-833.	4.5	208
29	RNA mis-splicing in disease. Nature Reviews Genetics, 2016, 17, 19-32.	7.7	935
30	Muscleblind-like 1 is required for normal heart valve development in vivo. BMC Developmental Biology, 2015, 15, 36.	2.1	7
31	MBNL1-mediated regulation of differentiation RNAs promotes myofibroblast transformation and the fibrotic response. Nature Communications, 2015, 6, 10084.	5.8	72
32	Genome Modification Leads to Phenotype Reversal in Human Myotonic Dystrophy Type 1 Induced Pluripotent Stem Cell-Derived Neural Stem Cells. Stem Cells, 2015, 33, 1829-1838.	1.4	53
33	Rectifying RNA splicing errors in hereditary neurodegenerative disease. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2637-2638.	3.3	2
34	Global insights into alternative polyadenylation regulation. RNA Biology, 2015, 12, 597-602.	1.5	33
35	Abnormal splicing switch of DMDâ€™s penultimate exon compromises muscle fibre maintenance in myotonic dystrophy. Nature Communications, 2015, 6, 7205.	5.8	76
36	MBNL Sequestration by Toxic RNAs and RNA Misprocessing in the Myotonic Dystrophy Brain. Cell Reports, 2015, 12, 1159-1168.	2.9	120

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37	Consensus on cerebral involvement in myotonic dystrophy. Neuromuscular Disorders, 2014, 24, 445-452.	0.3	43
38	Loss of MBNL Leads to Disruption of Developmentally Regulated Alternative Polyadenylation in RNA-Mediated Disease. Molecular Cell, 2014, 56, 311-322.	4.5	248
39	RNAâ€“protein interactions in unstable microsatellite diseases. Brain Research, 2014, 1584, 3-14.	1.1	51
40	RNA-Binding Protein Misregulation in Microsatellite Expansion Disorders. Advances in Experimental Medicine and Biology, 2014, 825, 353-388.	0.8	27
41	Progressive impairment of muscle regeneration in muscleblind-like 3 isoform knockout mice. Human Molecular Genetics, 2013, 22, 3547-3558.	1.4	61
42	Splicing biomarkers of disease severity in myotonic dystrophy. Annals of Neurology, 2013, 74, 862-872.	2.8	215
43	Myotonic dystrophy CTG expansion affects synaptic vesicle proteins, neurotransmission and mouse behaviour. Brain, 2013, 136, 957-970.	3.7	64
44	Prediction of clustered RNA-binding protein motif sites in the mammalian genome. Nucleic Acids Research, 2013, 41, 6793-6807.	6.5	64
45	Compound loss of muscleblindâ€like function in myotonic dystrophy. EMBO Molecular Medicine, 2013, 5, 1887-1900.	3.3	151
46	Generation of Neural Cells from DM1 Induced Pluripotent Stem Cells As Cellular Model for the Study of Central Nervous System Neuropathogenesis. Cellular Reprogramming, 2013, 15, 166-177.	0.5	49
47	Myosin Light Chain Phosphorylation Is Critical for Adaptation to Cardiac Stress. Circulation, 2012, 126, 2575-2588.	1.6	87
48	Muscleblind-like 2-Mediated Alternative Splicing in the Developing Brain and Dysregulation in Myotonic Dystrophy. Neuron, 2012, 75, 437-450.	3.8	296
49	Muscleblind-Like 1 Knockout Mice Reveal Novel Splicing Defects in the Myotonic Dystrophy Brain. PLoS ONE, 2012, 7, e33218.	1.1	79
50	Developments in RNA Splicing and Disease. Cold Spring Harbor Perspectives in Biology, 2011, 3, a000778-a000778.	2.3	79
51	Non-ATGâ€“initiated translation directed by microsatellite expansions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 260-265.	3.3	826
52	Silence Is Not Always Golden. Genetic Testing and Molecular Biomarkers, 2011, 15, 467-467.	0.3	0
53	Aberrant alternative splicing and extracellular matrix gene expression in mouse models of myotonic dystrophy. Nature Structural and Molecular Biology, 2010, 17, 187-193.	3.6	301
54	Partners in crime: bidirectional transcription in unstable microsatellite disease. Human Molecular Genetics, 2010, 19, R77-R82.	1.4	95

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55	Mechanisms of RNA-mediated Disease. Journal of Biological Chemistry, 2009, 284, 7419-7423.	1.6	83
56	Transcriptional and post-transcriptional impact of toxic RNA in myotonic dystrophy. Human Molecular Genetics, 2009, 18, 1471-1481.	1.4	149
57	RNA Gain-of-Function in Spinocerebellar Ataxia Type 8. PLoS Genetics, 2009, 5, e1000600.	1.5	245
58	Pathogenic RNAs in microsatellite expansion disease. Neuroscience Letters, 2009, 466, 99-102.	1.0	17
59	Toxic RNA in the Nucleus: Unstable Microsatellite Expression in Neuromuscular Disease. Progress in Molecular and Subcellular Biology, 2008, 35, 57-77.	0.9	15
60	Muscle Chloride Channel Dysfunction in Two Mouse Models of Myotonic Dystrophy. Journal of General Physiology, 2007, 129, 79-94.	0.9	98
61	Muscleblind-like 1 interacts with RNA hairpins in splicing target and pathogenic RNAs. Nucleic Acids Research, 2007, 35, 5474-5486.	6.5	192
62	Essential role for Dicer during skeletal muscle development. Developmental Biology, 2007, 311, 359-368.	0.9	298
63	Fragile X Tremor/Ataxia Syndrome: Blame the Messenger!. Neuron, 2007, 55, 535-537.	3.8	16
64	Special issue on the muscular dystrophies: Molecular basis and therapeutic strategies. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 107.	1.8	0
65	Muscleblind isoforms are functionally distinct and regulate Î±-actinin splicing. Differentiation, 2007, 75, 427-440.	1.0	29
66	Correction of ClC-1 splicing eliminates chloride channelopathy and myotonia in mouse models of myotonic dystrophy. Journal of Clinical Investigation, 2007, 117, 3952-7.	3.9	215
67	Failure of MBNL1-dependent post-natal splicing transitions in myotonic dystrophy. Human Molecular Genetics, 2006, 15, 2087-2097.	1.4	445
68	MicroRNAs in mammalian development and tumorigenesis. Birth Defects Research Part C: Embryo Today Reviews, 2006, 78, 172-179.	3.6	42
69	Constraints on the Structure of (CUG)97 RNA from Magic-Angle-Spinning Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2006, 45, 5620-5623.	7.2	26
70	Reversal of RNA missplicing and myotonia after muscleblind overexpression in a mouse poly(CUG) model for myotonic dystrophy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11748-11753.	3.3	312
71	The RNA-Mediated Disease Process in Myotonic Dystrophy. , 2006, , 37-54.		3
72	Myotonic Dystrophies Types 1 and 2. , 2006, , 143-166.		0

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73	Dynamic balance between activation and repression regulates pre-mRNA alternative splicing during heart development. Developmental Dynamics, 2005, 233, 783-793.	0.8	112
74	Yeast mRNA Poly(A) Tail Length Control Can Be Reconstituted in Vitro in the Absence of Pab1p-dependent Poly(A) Nuclease Activity. Journal of Biological Chemistry, 2005, 280, 24532-24538.	1.6	30
75	Nuclear RNA Foci in the Heart in Myotonic Dystrophy. Circulation Research, 2005, 97, 1152-1155.	2.0	100
76	Colocalization of muscleblind with RNA foci is separable from mis-regulation of alternative splicing in myotonic dystrophy. Journal of Cell Science, 2005, 118, 2923-2933.	1.2	168
77	Small Molecule Regulators of Protein Arginine Methyltransferases. Journal of Biological Chemistry, 2004, 279, 23892-23899.	1.6	281
78	Myotonic dystrophy type 1 is associated with nuclear foci of mutant RNA, sequestration of muscleblind proteins and deregulated alternative splicing in neurons. Human Molecular Genetics, 2004, 13, 3079-3088.	1.4	471
79	Muscleblind proteins regulate alternative splicing. EMBO Journal, 2004, 23, 3103-3112.	3.5	438
80	Letter to the editor: 1H, 15N and 13C chemical shift assignments of RNA repeats binding protein ? CUGBP1ab. Journal of Biomolecular NMR, 2004, 30, 371-372.	1.6	2
81	Identification of NH...N hydrogen bonds by magic angle spinning solid state NMR in a double-stranded RNA associated with myotonic dystrophy. Nucleic Acids Research, 2004, 32, 1177-1183.	6.5	51
82	Developmental expression of mouse muscleblind genes Mbnl1, Mbnl2 and Mbnl3. Gene Expression Patterns, 2003, 3, 459-462.	0.3	113
83	Ribonuclear inclusions in skeletal muscle in myotonic dystrophy types 1 and 2. Annals of Neurology, 2003, 54, 760-768.	2.8	160
84	A Muscleblind Knockout Model for Myotonic Dystrophy. Science, 2003, 302, 1978-1980.	6.0	661
85	Dual requirement for yeast hnRNP Nab2p in mRNA poly(A) tail length control and nuclear export. EMBO Journal, 2002, 21, 1800-1810.	3.5	155
86	Identification of an autoimmune serum containing antibodies against the Barr body. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 8703-8708.	3.3	20
87	Muscleblind localizes to nuclear foci of aberrant RNA in myotonic dystrophy types 1 and 2. Human Molecular Genetics, 2001, 10, 2165-2170.	1.4	381
88	A NRD1-NAB3 COMPLEX ASSOCIATED WITH YEAST RNA POLYMERASE II. Biochemical Society Transactions, 2000, 28, A442-A442.	1.6	0
89	Recruitment of human muscleblind proteins to (CUG)n expansions associated with myotonic dystrophy. EMBO Journal, 2000, 19, 4439-4448.	3.5	802
90	HuR binding to cytoplasmic mRNA is perturbed by heat shock. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3073-3078.	3.3	286

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91	A Yeast Heterogeneous Nuclear Ribonucleoprotein Complex Associated With RNA Polymerase II. Genetics, 2000, 154, 557-571.	1.2	125
92	Preparation of Heterogeneous Nuclear Ribonucleoprotein Complexes. , 1999, 118, 299-308.		6
93	Visualization of double-stranded RNAs from the myotonic dystrophy protein kinase gene and interactions with CUG-binding protein. Nucleic Acids Research, 1999, 27, 3534-3542.	6.5	127
94	hnRNP complexes: composition, structure, and function. Current Opinion in Cell Biology, 1999, 11, 363-371.	2.6	766
95	Control of cleavage site selection during mRNA 3' end formation by a yeast hnRNP. EMBO Journal, 1998, 17, 7454-7468.	3.5	93
96	Altered phosphorylation and intracellular distribution of a (CUG)n triplet repeat RNA-binding protein in patients with myotonic dystrophy and in myotonin protein kinase knockout mice. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 13221-13226.	3.3	151
97	Identification of a (CUG)n Triplet Repeat RNA-Binding Protein and Its Expression in Myotonic Dystrophy. Nucleic Acids Research, 1996, 24, 4407-4414.	6.5	432
98	Functions of Nuclear Pre-mRNA/mRNA Binding Proteins. Molecular Biology Intelligence Unit, 1995, , 17-33.	0.2	16
99	Characterization of nuclear polyadenylated RNA-binding proteins in Saccharomyces cerevisiae.. Journal of Cell Biology, 1994, 127, 1173-1184.	2.3	130
100	The human hnRNP M proteins: identification of a methionine/arginine-rich repeat motif in ribonucleoproteins. Nucleic Acids Research, 1993, 21, 439-446.	6.5	95
101	Purification and characterization of proteins of heterogeneous nuclear ribonucleoprotein complexes by affinity chromatography. Methods in Enzymology, 1990, 181, 326-331.	0.4	26
102	Heterogeneous nuclear ribonucleoprotein complexes. Molecular Biology Reports, 1990, 14, 79-82.	1.0	7
103	Recent studies on hnRNP complexes. Molecular Biology Reports, 1990, 14, 85-85.	1.0	0
104	A novel heterogeneous nuclear RNP protein with a unique distribution on nascent transcripts.. Journal of Cell Biology, 1989, 109, 2575-2587.	2.3	215
105	RNA-binding proteins as developmental regulators.. Genes and Development, 1989, 3, 431-437.	2.7	681
106	Response: The Myeloperoxidase Gene in Acute Promyelocytic Leukemia. Science, 1989, 244, 825-826.	6.0	4
107	Primary structures of the heterogeneous nuclear ribonucleoprotein A2, B1, and C2 proteins: a diversity of RNA binding proteins is generated by small peptide inserts.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 9788-9792.	3.3	248
108	Heterogeneous nuclear ribonucleoprotein particles and the pathway of mRNA formation. Trends in Biochemical Sciences, 1988, 13, 86-91.	3.7	424

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109	cDNA cloning of human myeloperoxidase: decrease in myeloperoxidase mRNA upon induction of HL-60 cells.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 2057-2061.	3.3	61
110	hnRNPS and mRNPS. Molecular Biology Reports, 1987, 12, 165-168.	1.0	0
111	Developmental expression of nuclear genes that encode mitochondrial proteins: insect cytochromes c.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 1964-1968.	3.3	22
112	Role of phospholipid in the low affinity reactions between cytochrome c and cytochrome oxidase. FEBS Letters, 1983, 164, 379-382.	1.3	34
113	Protein-Lipid Interactions Within Purified and Reconstituted Cytochrome c Reductase and Oxidase. Biophysical Journal, 1982, 37, 68-69.	0.2	9
114	Effect of crosslinking cytochrome c oxidase. Archives of Biochemistry and Biophysics, 1980, 204, 30-40.	1.4	6
115	An imidoester spin probe of membrane protein interactions: Application to cytochrome c. Archives of Biochemistry and Biophysics, 1980, 204, 471-476.	1.4	10
116	Arp2/3 and Mena/VASP Require Profilin 1 for Actin Network Assembly at the Leading Edge. SSRN Electronic Journal, 0, , .	0.4	0