Damon R Lisch

List of Publications by Year
in descending order

63 papers	10,131 citations	101543 36 h-index	128289 60 g-index
71 all docs	71 docs citations	71 times ranked	10480 citing authors

#	Article	IF	Citations
1	Broad-spectrum fungal resistance in sorghum is conferred through the complex regulation of an immune receptor gene embedded in a natural antisense transcript. Plant Cell, 2022, 34, 1641-1665.	6.6	17
2	A Molecular Cloning and Sanger Sequencing-based Protocol for Detecting Site-specific DNA Methylation. Bio-protocol, 2022, 12, .	0.4	2
3	The <i>mop1</i> mutation affects the recombination landscape in maize. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
4	The Epigenome and Beyond: How Does Non-genetic Inheritance Change Our View of Evolution?. Integrative and Comparative Biology, 2021, , .	2.0	5
5	RNA-directed DNA methylation prevents rapid and heritable reversal of transposon silencing under heat stress in Zea mays. PLoS Genetics, 2021, 17, e1009326.	3.5	24
6	Silencing of<i>Mutator</i>Elements in Maize Involves Distinct Populations of Small RNAs and Distinct Patterns of DNA Methylation. Genetics, 2020, 215, 379-391.	2.9	19
7	Transposable elements employ distinct integration strategies with respect to transcriptional landscapes in eukaryotic genomes. Nucleic Acids Research, 2020, 48, 6685-6698.	14.5	30
8	Small RNA-Mediated<i>De Novo</i>Silencing of<i>Ac/Ds</i>Transposons Is Initiated by Alternative Transposition in Maize. Genetics, 2020, 215, 393-406.	2.9	11
9	Cost-Effective Profiling of Mutator Transposon Insertions in Maize by Next-Generation Sequencing. Methods in Molecular Biology, 2020, 2072, 39-50.	0.9	2
10	The long and short of doubling down: polyploidy, epigenetics, and the temporal dynamics of genome fractionation. Current Opinion in Genetics and Development, 2018, 49, 1-7.	3.3	186
11	Editorial overview: Genome architecture and expression: Mobile elements at work. Current Opinion in Genetics and Development, 2018, 49, iv-v.	3.3	3
12	Genome-wide Estimation of Evolutionary Distance and Phylogenetic Analysis of Homologous Genes. Bio-protocol, 2018, 8, e3097.	0.4	3
13	Natural antisense transcripts are significantly involved in regulation of drought stress in maize. Nucleic Acids Research, 2017, 45, 5126-5141.	14.5	53
14	Patterns and Consequences of Subgenome Differentiation Provide Insights into the Nature of Paleopolyploidy in Plants. Plant Cell, 2017, 29, 2974-2994.	6.6	88
15	Creating Order from Chaos: Epigenome Dynamics in Plants with Complex Genomes. Plant Cell, 2016, 28, 314-325.	6.6	89
16	<i>Mutator</i> and <i>MULE</i> Transposons. Microbiology Spectrum, 2015, 3, MDNA3-0032-2014.	3.0	33
17	A Solution to the C-Value Paradox and the Function of Junk DNA: The Genome Balance Hypothesis. Molecular Plant, 2015, 8, 899-910.	8.3	36
18	RNA-directed DNA methylation enforces boundaries between heterochromatin and euchromatin in the maize genome. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14728-14733.	7.1	179

#	Article	IF	Citations
19	Origin, inheritance, and gene regulatory consequences of genome dominance in polyploids. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5283-5288.	7.1	172
20	What is being written, and why?. Physics of Life Reviews, 2013, 10, 336-337.	2.8	1
21	How important are transposons for plant evolution?. Nature Reviews Genetics, 2013, 14, 49-61.	16.3	711
22	Regulation of the Mutator System of Transposons in Maize. Methods in Molecular Biology, 2013, 1057, 123-142.	0.9	10
23	Regulation of transposable elements in maize. Current Opinion in Plant Biology, 2012, 15, 511-516.	7.1	34
24	Fractionation mutagenesis and similar consequences of mechanisms removing dispensable or less-expressed DNA in plants. Current Opinion in Plant Biology, 2012, 15, 131-139.	7.1	194
25	Transposable element origins of epigenetic gene regulation. Current Opinion in Plant Biology, 2011, 14, 156-161.	7.1	130
26	Strategies for Silencing and Escape. International Review of Cell and Molecular Biology, 2011, 292, 119-152.	3.2	39
27	Pack- <i>Mutator</i> â€“like transposable elements (Pack-MULEs) induce directional modification of genes through biased insertion and DNA acquisition. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1537-1542.	7.1	74
28	POPcorn: An Online Resource Providing Access to Distributed and Diverse Maize Project Data. International Journal of Plant Genomics, 2011, 2011, 1-10.	2.2	20
29	Epigenetic reprogramming during vegetative phase change in maize. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22184-22189.	7.1	69
30	Following Tetraploidy in Maize, a Short Deletion Mechanism Removed Genes Preferentially from One of the Two Homeologs. PLoS Biology, 2010, 8, e1000409.	5.6	260
31	Loss of RNAâ€“Dependent RNA Polymerase 2 (RDR2) Function Causes Widespread and Unexpected Changes in the Expression of Transposons, Genes, and 24-nt Small RNAs. PLoS Genetics, 2009, 5, e1000737.	3.5	106
32	The Functional Role of Pack-MULEs in Rice Inferred from Purifying Selection and Expression Profile. Plant Cell, 2009, 21, 25-38.	6.6	91
33	Production and Processing of siRNA Precursor Transcripts from the Highly Repetitive Maize Genome. PLoS Genetics, 2009, 5, e1000598.	3.5	39
34	Mutator and MULE transposons. , 2009, , 277-306.		14
35	Epigenetic Regulation of Transposable Elements in Plants. Annual Review of Plant Biology, 2009, 60, 43-66.	18.7	409
36	The B73 Maize Genome: Complexity, Diversity, and Dynamics. Science, 2009, 326, 1112-1115.	12.6	3,612

#	Article	IF	Citations
37	Distal Expression of <i>knotted1</i> in Maize Leaves Leads to Reestablishment of Proximal/Distal Patterning and Leaf Dissection Â Â. Plant Physiology, 2009, 151, 1878-1888.	4.8	47
38	Maize GEvo: A Comparative DNA Sequence Alignment Visualization and Research Tool. , 2009, , 341-351.		0
39	A new SPIN on horizontal transfer. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16827-16828.	7.1	4
40	Many or most genes in <i>Arabidopsis</i> transposed after the origin of the order Brassicales. Genome Research, 2008, 18, 1924-1937.	5.5	157
41	A Position Effect on the Heritability of Epigenetic Silencing. PLoS Genetics, 2008, 4, e1000216.	3.5	38
42	Finding and Comparing Syntenic Regions among Arabidopsis and the Outgroups Papaya, Poplar, and Grape: CoGe with Rosids. Plant Physiology, 2008, 148, 1772-1781.	4.8	376
43	Mutator Transposon in Maize and MULEs in the Plant Genome. Journal of Genetics and Genomics, 2006, 33, 477-487.	0.3	13
44	Initiation, Establishment, and Maintenance of Heritable MuDR Transposon Silencing in Maize Are Mediated by Distinct Factors. PLoS Biology, 2006, 4, e339.	5.6	95
45	The mop1 (mediator of paramutation1) Mutant Progressively Reactivates One of the Two Genes Encoded by the MuDR Transposon in Maize. Genetics, 2006, 172, 579-592.	2.9	63
46	Heritable transposon silencing initiated by a naturally occurring transposon inverted duplication. Nature Genetics, 2005, 37, 641-644.	21.4	164
47	Pack-MULEs: theft on a massive scale. BioEssays, 2005, 27, 353-355.	2.5	25
48	Horizontal Transfer of a Plant Transposon. PLoS Biology, 2005, 4, e5.	5.6	134
49	The FHY3 and FAR1 genes encode transposase-related proteins involved in regulation of gene expression by the phytochrome A-signaling pathway. Plant Journal, 2003, 34, 453-471.	5.7	179
50	<i>Mu killer</i> Causes the Heritable Inactivation of the <i>Mutator</i> Family of Transposable Elements in <i>Zea mays</i>. Genetics, 2003, 165, 781-797.	2.9	78
51	A mutation that prevents paramutation in maize also reverses Mutator transposon methylation and silencing. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6130-6135.	7.1	100
52	Mutator transposons. Trends in Plant Science, 2002, 7, 498-504.	8.8	175
53	Maize transgene results in Mexico are artefacts (see editorial footnote). Nature, 2002, 416, 601-602.	27.8	71
54	PERSPECTIVE: TRANSPOSABLE ELEMENTS, PARASITIC DNA, AND GENOME EVOLUTION. Evolution; International Journal of Organic Evolution, 2001, 55, 1-24.	2.3	518

#	Article	IF	Citations
55	Mutator Transposase Is Widespread in the Grasses. Plant Physiology, 2001, 125, 1293-1303.	4.8	59
56	PERSPECTIVE: TRANSPOSABLE ELEMENTS, PARASITIC DNA, AND GENOME EVOLUTION. Evolution; International Journal of Organic Evolution, 2001, 55, 1.	2.3	55
57	Reply from M.G. Kidwell and D.R. Lisch. Trends in Ecology and Evolution, 2000, 15, 288.	8.7	23
58	Transposable elements and host genome evolution. Trends in Ecology and Evolution, 2000, 15, 95-99.	8.7	310
59	Functional Analysis of Deletion Derivatives of the Maize Transposon MuDR Delineates Roles for the MURA and MURB Proteins. Genetics, 1999, 151, 331-341.	2.9	61
60	Transposons unbound. Nature, 1998, 393, 22-23.	27.8	31
61	The Maize Regulatory Gene B-Peru Contains a DNA Rearrangement That Specifies Tissue-Specific Expression Through Both Positive and Negative Promoter Elements. Genetics, 1998, 149, 1125-1138.	2.9	32
62	Transposable elements as sources of variation in animals andâ€‰plants. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7704-7711.	7.1	533
63	<i>Mutator</i> and <i>MULE</i> Transposons. , 0, , 801-826.		2