Mathew G Lewsey

List of Publications by Year in Descending Order

45 papers	4,096 citations	24 h-index	58 g-index
58 ext. papers	5,576 ext. citations	9.9 avg, IF	5.1 L-index

#	Paper	IF	Citations
45	scCloudMine: A cloud-based app for visualization, comparison, and exploration of single cell transcriptomic data. *Plant Communications*, **2022**, 100302	9	
44	Insights into opium poppy (Papaver spp.) genetic diversity from genotyping-by-sequencing analysis.. *Scientific Reports*, **2022**, 12, 111	4.9	0
43	Applications of hyperspectral imaging in plant phenotyping.. *Trends in Plant Science*, **2022**,	13.1	5
42	Applications of cell- and tissue-specific Ωomics to improve plant productivity.. *Emerging Topics in Life Sciences*, **2022**,	3.5	1
41	How Ωomics technologies can drive plant engineering, ecosystem surveillance, human and animal health.. *Emerging Topics in Life Sciences*, **2022**, 6, 137-139	3.5	
40	RNA-seq analysis of laser microdissected Arabidopsis thaliana leaf epidermis, mesophyll and vasculature defines tissue-specific transcriptional responses to multiple stress treatments. *Plant Journal*, **2021**, 107, 938-955	6.9	6
39	Noninvasive imaging technologies in plant phenotyping. *Trends in Plant Science*, **2021**,	13.1	2
38	Recent advances in Cannabis sativa genomics research. *New Phytologist*, **2021**, 230, 73-89	9.8	23
37	Small RNAs shoot for the root. *Nature Plants*, **2021**, 7, 2-3	11.5	1
36	Vision, challenges and opportunities for a Plant Cell Atlas. *ELife*, **2021**, 10,	8.9	8
35	Analysis of Spatio-Temporal Transcriptome Profiles of Soybean () Tissues during Early Seed Development. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	3
34	Integrated multi-omics framework of the plant response to jasmonic acid. *Nature Plants*, **2020**, 6, 290-302	11.5	59
33	Laser-Capture Microdissection RNA-Sequencing for Spatial and Temporal Tissue-Specific Gene Expression Analysis in Plants. *Journal of Visualized Experiments*, **2020**,	1.6	1
32	Plant Pathology 101: how to get away with infection. *New Phytologist*, **2020**, 225, 601-603	9.8	0
31	Temporal tissue-specific regulation of transcriptomes during barley (Hordeum vulgare) seed germination. *Plant Journal*, **2020**, 101, 700-715	6.9	8
30	The JA-pathway MYC transcription factors regulate photomorphogenic responses by targeting HY5 gene expression. *Plant Journal*, **2020**, 102, 138-152	6.9	24
29	Developmental normalization of phenomics data generated by high throughput plant phenotyping systems. *Plant Methods*, **2020**, 16, 111	5.8	0

28	ANAC017 Coordinates Organellar Functions and Stress Responses by Reprogramming Retrograde Signaling. *Plant Physiology*, **2019**, 180, 634-653	6.6	36
27	A MYC2/MYC3/MYC4-dependent transcription factor network regulates water spray-responsive gene expression and jasmonate levels. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23345-23356	11.5	38
26	Epigenetic silencing of a multifunctional plant stress regulator. *ELife*, **2019**, 8,	8.9	16
25	Biochemistry, Genetics, and Genomics of Opium Poppy (Papaver somniferum) for Crop Improvement **2019**, 1177-1219		2
24	Regulation of genome-wide DNA methylation by mobile small RNAs. *New Phytologist*, **2018**, 217, 540-546	9.8	38
23	AgriSeqDB: an online RNA-Seq database for functional studies of agriculturally relevant plant species. *BMC Plant Biology*, **2018**, 18, 200	5.3	7
22	JAZ2 controls stomata dynamics during bacterial invasion. *New Phytologist*, **2017**, 213, 1378-1392	9.8	80
21	Extensive transcriptomic and epigenomic remodelling occurs during Arabidopsis thaliana germination. *Genome Biology*, **2017**, 18, 172	18.3	87
20	Salicylic acid treatment and expression of an RNA-dependent RNA polymerase 1 transgene inhibit lethal symptoms and meristem invasion during tobacco mosaic virus infection in Nicotiana benthamiana. *BMC Plant Biology*, **2016**, 16, 15	5.3	42
19	Mobile small RNAs regulate genome-wide DNA methylation. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E801-10	11.5	153
18	Cistrome and Epicistrome Features Shape the Regulatory DNA Landscape. *Cell*, **2016**, 165, 1280-1292	56.2	528
17	Mobile small RNAs and their role in regulating cytosine methylation of DNA. *RNA Biology*, **2016**, 13, 1060-1067	4.8	5
16	Domains of the cucumber mosaic virus 2b silencing suppressor protein affecting inhibition of salicylic acid-induced resistance and priming of salicylic acid accumulation during infection. *Journal of General Virology*, **2014**, 95, 1408-1413	4.9	30
15	Interference with jasmonic acid-regulated gene expression is a general property of viral suppressors of RNA silencing but only partly explains virus-induced changes in plant-aphid interactions. *Journal of General Virology*, **2014**, 95, 733-739	4.9	46
14	Determination and inference of eukaryotic transcription factor sequence specificity. *Cell*, **2014**, 158, 1431-1443	56.2	866
13	Arabidopsis basic helix-loop-helix transcription factors MYC2, MYC3, and MYC4 regulate glucosinolate biosynthesis, insect performance, and feeding behavior. *Plant Cell*, **2013**, 25, 3117-32	11.6	313
12	A trio of viral proteins tunes aphid-plant interactions in Arabidopsis thaliana. *PLoS ONE*, **2013**, 8, e83066	3.7	49
11	Transgenerational epigenetic instability is a source of novel methylation variants. *Science*, **2011**, 334, 369-73	33.3	485

10	An antiviral defense role of AGO2 in plants. *PLoS ONE*, **2011**, 6, e14639	3.7	238
9	Cucumber mosaic virus and its 2b RNA silencing suppressor modify plant-aphid interactions in tobacco. *Scientific Reports*, **2011**, 1, 187	4.9	98
8	Symptom induction and RNA silencing suppression by the cucumber mosaic virus 2b protein. *Plant Signaling and Behavior*, **2010**, 5, 705-8	2.5	22
7	Signaling in induced resistance. *Advances in Virus Research*, **2010**, 76, 57-121	10.7	116
6	Cucumber mosaic virus 2b protein subcellular targets and interactions: their significance to RNA silencing suppressor activity. *Molecular Plant-Microbe Interactions*, **2010**, 23, 294-303	3.6	147
5	Disruption of two defensive signaling pathways by a viral RNA silencing suppressor. *Molecular Plant-Microbe Interactions*, **2010**, 23, 835-45	3.6	144
4	RNA silencing in plants: Flash report!. *Silence: A Journal of RNA Regulation*, **2010**, 1, 13		7
3	Effects of DICER-like proteins 2, 3 and 4 on cucumber mosaic virus and tobacco mosaic virus infections in salicylic acid-treated plants. *Journal of General Virology*, **2009**, 90, 3010-3014	4.9	41
2	The role of the Cucumber mosaic virus 2b protein in viral movement and symptom induction. *Molecular Plant-Microbe Interactions*, **2009**, 22, 642-54	3.6	92
1	Selective targeting of miRNA-regulated plant development by a viral counter-silencing protein. *Plant Journal*, **2007**, 50, 240-52	6.9	106