

# Thomas Girke

## List of Publications by Year in descending order

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63  
papers

10,088  
citations

81900

39  
h-index

110387

64  
g-index

65  
all docs

65  
docs citations

65  
times ranked

19300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orchestrating high-throughput genomic analysis with Bioconductor. <i>Nature Methods</i> , 2015, 12, 115-121.	19.0	3,070
2	The Vegetative Vacuole Proteome of <i>Arabidopsis thaliana</i> Reveals Predicted and Unexpected Proteins[W]. <i>Plant Cell</i> , 2004, 16, 3285-3303.	6.6	591
3	Profiling translomes of discrete cell populations resolves altered cellular priorities during hypoxia in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18843-18848.	7.1	553
4	WUSCHEL protein movement mediates stem cell homeostasis in the <i>Arabidopsis</i> shoot apex. <i>Genes and Development</i> , 2011, 25, 2025-2030.	5.9	522
5	Cloning and Characterization of MicroRNAs from Rice. <i>Plant Cell</i> , 2005, 17, 1397-1411.	6.6	462
6	ChemMine tools: an online service for analyzing and clustering small molecules. <i>Nucleic Acids Research</i> , 2011, 39, W486-W491.	14.5	377
7	Translational dynamics revealed by genome-wide profiling of ribosome footprints in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E203-12.	7.1	367
8	Gene expression map of the <i>Arabidopsis</i> shoot apical meristem stem cell niche. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4941-4946.	7.1	299
9	ChemmineR: a compound mining framework for R. <i>Bioinformatics</i> , 2008, 24, 1733-1734.	4.1	296
10	Differential mRNA translation contributes to gene regulation under non-stress and dehydration stress conditions in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2004, 38, 823-839.	5.7	283
11	systemPipeR: NGS workflow and report generation environment. <i>BMC Bioinformatics</i> , 2016, 17, 388.	2.6	178
12	<i>Arabidopsis</i> LATERAL ORGAN BOUNDARIES negatively regulates brassinosteroid accumulation to limit growth in organ boundaries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21146-21151.	7.1	167
13	Annotating Genes of Known and Unknown Function by Large-Scale Coexpression Analysis. <i>Plant Physiology</i> , 2008, 147, 41-57.	4.8	162
14	Tomato Susceptibility to Root-Knot Nematodes Requires an Intact Jasmonic Acid Signaling Pathway. <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 1205-1214.	2.6	160
15	A maximum common substructure-based algorithm for searching and predicting drug-like compounds. <i>Bioinformatics</i> , 2008, 24, i366-i374.	4.1	150
16	In Planta Expression or Delivery of Potato Aphid <i>Macrosiphum euphorbiae</i> Effectors <i>Me10</i> and <i>Me23</i> Enhances Aphid Fecundity. <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 67-74.	2.6	150
17	Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. <i>Nature Communications</i> , 2017, 8, 80.	12.8	147
18	Plant stem cell maintenance involves direct transcriptional repression of differentiation program. <i>Molecular Systems Biology</i> , 2013, 9, 654.	7.2	126

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19	Juvenile hormone and its receptor, methoprene-tolerant, control the dynamics of mosquito gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2173-81.	7.1	124
20	Linking genes of unknown function with abiotic stress responses by high-throughput phenotype screening. <i>Physiologia Plantarum</i> , 2013, 148, 322-333.	5.2	123
21	Clusters of bioactive compounds target dynamic endomembrane networks in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17850-17855.	7.1	122
22	Small RNAs and the regulation of cis-natural antisense transcripts in <i>Arabidopsis</i> . <i>BMC Molecular Biology</i> , 2008, 9, 6.	3.0	120
23	A high-resolution gene expression map of the <i>Arabidopsis</i> shoot meristem stem cell niche. <i>Development (Cambridge)</i> , 2014, 141, 2735-2744.	2.5	110
24	Identification and characterization of endogenous small interfering RNAs from rice. <i>Nucleic Acids Research</i> , 2005, 33, 4443-4454.	14.5	92
25	Transcriptomes of eight <i>Arabidopsis thaliana</i> accessions reveal core conserved, genotype- and organ-specific responses to flooding stress. <i>Plant Physiology</i> , 2016, 172, pp.00472.2016.	4.8	92
26	Switching desaturase enzyme specificity by alternate subcellular targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10266-10271.	7.1	87
27	Deciphering the Ubiquitin-Mediated Pathway in Apicomplexan Parasites: A Potential Strategy to Interfere with Parasite Virulence. <i>PLoS ONE</i> , 2008, 3, e2386.	2.5	80
28	The Synthetic Elicitor 3,5-Dichloroanthranilic Acid Induces <i>NPR1</i> -Dependent and <i>NPR1</i> -Independent Mechanisms of Disease Resistance in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009, 150, 333-347.	4.8	74
29	The Cell Wall Navigator Database. A Systems-Based Approach to Organism-Unrestricted Mining of Protein Families Involved in Cell Wall Metabolism. <i>Plant Physiology</i> , 2004, 136, 3003-3008.	4.8	64
30	What makes species unique? The contribution of proteins with obscure features. <i>Genome Biology</i> , 2006, 7, R57.	9.6	64
31	ChemMine. A Compound Mining Database for Chemical Genomics. <i>Plant Physiology</i> , 2005, 138, 573-577.	4.8	61
32	MODIFIED VACUOLE PHENOTYPE1 Is an <i>Arabidopsis</i> Myrosinase-Associated Protein Involved in Endomembrane Protein Trafficking. <i>Plant Physiology</i> , 2009, 152, 120-132.	4.8	57
33	Regulation of Gene Expression Patterns in Mosquito Reproduction. <i>PLoS Genetics</i> , 2015, 11, e1005450.	3.5	56
34	Hairy and Groucho mediate the action of juvenile hormone receptor Methoprene-tolerant in gene repression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E735-43.	7.1	55
35	SEED: efficient clustering of next-generation sequences. <i>Bioinformatics</i> , 2011, 27, 2502-2509.	4.1	54
36	Pathophysiologic and Transcriptomic Analyses of Viscerotropic Yellow Fever in a Rhesus Macaque Model. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3295.	3.0	54

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37	fmcsR: mismatch tolerant maximum common substructure searching in R. <i>Bioinformatics</i> , 2013, 29, 2792-2794.	4.1	48
38	Genome Cluster Database. A Sequence Family Analysis Platform for Arabidopsis and Rice. <i>Plant Physiology</i> , 2005, 138, 47-54.	4.8	45
39	HOTAIRM1 lncRNA is downregulated in clear cell renal cell carcinoma and inhibits the hypoxia pathway. <i>Cancer Letters</i> , 2020, 472, 50-58.	7.2	41
40	Transcriptome-wide microRNA and target dynamics in the fat body during the gonadotrophic cycle of <i>Aedes aegypti</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1895-E1903.	7.1	38
41	Microarray Analysis of Tomato's Early and Late Wound Response Reveals New Regulatory Targets for Leucine Aminopeptidase A. <i>PLoS ONE</i> , 2013, 8, e77889.	2.5	35
42	Accelerated similarity searching and clustering of large compound sets by geometric embedding and locality sensitive hashing. <i>Bioinformatics</i> , 2010, 26, 953-959.	4.1	34
43	Gene regulatory networks shape developmental plasticity of root cell types under water extremes in rice. <i>Developmental Cell</i> , 2022, 57, 1177-1192.e6.	7.0	27
44	Towards a Modeling Infrastructure for Studying Plant Cells. <i>Plant Physiology</i> , 2003, 132, 410-414.	4.8	26
45	Alcohol Consumption Modulates Host Defense in Rhesus Macaques by Altering Gene Expression in Circulating Leukocytes. <i>Journal of Immunology</i> , 2016, 196, 182-195.	0.8	25
46	A novel virus from <i>Macrosiphum euphorbiae</i> with similarities to members of the family Flaviviridae. <i>Journal of General Virology</i> , 2016, 97, 1261-1271.	2.9	25
47	Expression analysis of Arabidopsis vacuolar sorting receptor 3 reveals a putative function in guard cells. <i>Journal of Experimental Botany</i> , 2008, 59, 1149-1161.	4.8	22
48	Acute Simian Varicella Virus Infection Causes Robust and Sustained Changes in Gene Expression in the Sensory Ganglia. <i>Journal of Virology</i> , 2016, 90, 10823-10843.	3.4	19
49	<i>signatureSearch</i> : environment for gene expression signature searching and functional interpretation. <i>Nucleic Acids Research</i> , 2020, 48, e124-e124.	14.5	17
50	Isolation and Analysis of mRNAs from Specific Cell Types of Plants by Ribosome Immunopurification. <i>Methods in Molecular Biology</i> , 2013, 959, 277-302.	0.9	16
51	Decoding the Ubiquitin-Mediated Pathway of Arthropod Disease Vectors. <i>PLoS ONE</i> , 2013, 8, e78077.	2.5	16
52	Sequence analysis of the potato aphid <i>Macrosiphum euphorbiae</i> transcriptome identified two new viruses. <i>PLoS ONE</i> , 2018, 13, e0193239.	2.5	14
53	bioassayR: Cross-Target Analysis of Small Molecule Bioactivity. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1237-1242.	5.4	13
54	Global isoform-specific transcript alterations and deregulated networks in clear cell renal cell carcinoma. <i>Oncotarget</i> , 2018, 9, 23670-23680.	1.8	13

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55	High-throughput small molecule screening reveals Nrf2-dependent and -independent pathways of cellular stress resistance. <i>Science Advances</i> , 2020, 6, .	10.3	12
56	Experimental Acute Exposure to Thirdhand Smoke and Changes in the Human Nasal Epithelial Transcriptome. <i>JAMA Network Open</i> , 2019, 2, e196362.	5.9	11
57	Genomic and functional analysis of the host response to acute simian varicella infection in the lung. <i>Scientific Reports</i> , 2016, 6, 34164.	3.3	9
58	Transcriptomic Evidence That Switching from Tobacco to Electronic Cigarettes Does Not Reverse Damage to the Respiratory Epithelium. <i>Toxics</i> , 2022, 10, 370.	3.7	7
59	Endomembrane Dissection Using Chemically Induced Bioactive Clusters. <i>Methods in Molecular Biology</i> , 2014, 1056, 159-168.	0.9	5
60	Genetic Support for Longevity-Enhancing Drug Targets: Issues, Preliminary Data, and Future Directions. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, S61-S71.	3.6	4
61	Large-scale bioactivity analysis of the small-molecule assayed proteome. <i>PLoS ONE</i> , 2017, 12, e0171413.	2.5	4
62	Cheminformatic Analysis of High-Throughput Compound Screens. <i>Methods in Molecular Biology</i> , 2014, 1056, 145-157.	0.9	3
63	Gene Expression Analysis of Shoot Apical Meristem Cell Types. <i>Methods in Molecular Biology</i> , 2013, 959, 235-245.	0.9	2