

PANTHER version 14: more genomes, a new PANTHER enrichment analysis tools

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Citation Report

#	ARTICLE	IF	CITATIONS
2	A tissue-specific, injectable acellular gel for the treatment of chronic vocal fold scarring. <i>Acta Biomaterialia</i> , 2019, 99, 141-153.	4.1	13
3	Inhibition of Pre-mRNA Splicing Promotes Root Hair Development in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1974-1985.	1.5	8
4	Deletion of Tet proteins results in quantitative disparities during ESC differentiation partially attributable to alterations in gene expression. <i>BMC Developmental Biology</i> , 2019, 19, 16.	2.1	7
5	ErbB4 promotes malignant peripheral nerve sheath tumor pathogenesis via Ras-independent mechanisms. <i>Cell Communication and Signaling</i> , 2019, 17, 74.	2.7	16
6	Identification of Potential Cerebrospinal Fluid Biomarkers To Discriminate between Infection and Sterile Inflammation in a Rat Model of <i>Staphylococcus epidermidis</i> Catheter Infection. <i>Infection and Immunity</i> , 2019, 87, .	1.0	5
7	<i>Lactobacillus</i> rescues postnatal neurobehavioral and microglial dysfunction in a model of maternal microbiome dysbiosis. <i>Brain, Behavior, and Immunity</i> , 2019, 81, 617-629.	2.0	30
8	Development of a Chimeric Model to Study and Manipulate Human Microglia In Vivo. <i>Neuron</i> , 2019, 103, 1016-1033.e10.	3.8	218
10	17 β -Estradiol Activates HSF1 via MAPK Signaling in ER α -Positive Breast Cancer Cells. <i>Cancers</i> , 2019, 11, 1533.	1.7	24
11	The mixed liver and heart transcriptome dataset of the New Zealand brushtail possum, <i>Trichosurus vulpecula</i> . <i>Data in Brief</i> , 2019, 27, 104577.	0.5	1
12	CRISPR-Cas9-mediated knockout of SPRY2 in human hepatocytes leads to increased glucose uptake and lipid droplet accumulation. <i>BMC Endocrine Disorders</i> , 2019, 19, 115.	0.9	6
13	Global Transcriptional Response of Three Highly Acid-Tolerant Field Strains of <i>Listeria monocytogenes</i> to HCl Stress. <i>Microorganisms</i> , 2019, 7, 455.	1.6	14
14	The reactome pathway knowledgebase. <i>Nucleic Acids Research</i> , 2020, 48, D498-D503.	6.5	1,570
15	Integrated transcriptomic analysis reveals hub genes involved in diagnosis and prognosis of pancreatic cancer. <i>Molecular Medicine</i> , 2019, 25, 47.	1.9	34
16	Genome-Wide Association Studies for Cerebrospinal Fluid Soluble TREM2 in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 297.	1.7	24
17	Transcriptional programming and T cell receptor repertoires distinguish human lung and lymph node memory T cells. <i>Communications Biology</i> , 2019, 2, 411.	2.0	16
18	Comparative transcriptome analysis of galls from four different host plants suggests the molecular mechanism of gall development. <i>PLoS ONE</i> , 2019, 14, e0223686.	1.1	23
19	Effects of Iron Oxide Nanoparticles (Fe_3O_4) on Liver, Lung and Brain Proteomes following Sub-Acute Intranasal Exposure: A New Toxicological Assessment in Rat Model Using iTRAQ-Based Quantitative Proteomics. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5186.	1.8	12
20	High-Throughput MicroRNA Profiles of Permissive Madin-Darby Canine Kidney Cell Line Infected with Influenza B Viruses. <i>Viruses</i> , 2019, 11, 986.	1.5	6

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21	Proteomic analysis of amniotic and allantoic fluid from buffaloes during foetal development. <i>Reproduction in Domestic Animals</i> , 2019, 54, 1507-1515.	0.6	3
22	Clinical Significance of SERPINA1 Gene and Its Encoded Alpha1-antitrypsin Protein in NSCLC. <i>Cancers</i> , 2019, 11, 1306.	1.7	52
23	Phenotypic Plasticity of Fibroblasts during Mammary Carcinoma Development. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4438.	1.8	19
24	Diesel exhaust particles dysregulate multiple immunological pathways in murine macrophages: Lessons from microarray and scRNA-seq technologies. <i>Archives of Biochemistry and Biophysics</i> , 2019, 678, 108116.	1.4	10
25	Environmentally induced plasticity of programmed DNA elimination boosts somatic variability in <i>Paramecium tetraurelia</i> . <i>Genome Research</i> , 2019, 29, 1693-1704.	2.4	17
26	A Network Analysis of Multiple Myeloma Related Gene Signatures. <i>Cancers</i> , 2019, 11, 1452.	1.7	23
27	Global Transcriptional Programs in Archaea Share Features with the Eukaryotic Environmental Stress Response. <i>Journal of Molecular Biology</i> , 2019, 431, 4147-4166.	2.0	10
28	Spaceflight influences gene expression, photoreceptor integrity, and oxidative stress-related damage in the murine retina. <i>Scientific Reports</i> , 2019, 9, 13304.	1.6	38
29	Insult-induced aberrant hippocampal neurogenesis: Functional consequences and possible therapeutic strategies. <i>Behavioural Brain Research</i> , 2019, 372, 112032.	1.2	33
30	Warfarin-exposed zebrafish embryos resembles human warfarin embryopathy in a dose and developmental-time dependent manner – From molecular mechanisms to environmental concerns. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 559-571.	2.9	16
31	A six-inhibitor culture medium for improving naïve-type pluripotency of porcine pluripotent stem cells. <i>Cell Death Discovery</i> , 2019, 5, 104.	2.0	16
32	Mitochondrial proteome profiling of <i>Leishmania tropica</i> . <i>Microbial Pathogenesis</i> , 2019, 133, 103542.	1.3	7
33	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. <i>Neuron</i> , 2019, 103, 217-234.e4.	3.8	518
34	Identification of Novel MicroRNAs and Their Diagnostic and Prognostic Significance in Oral Cancer. <i>Cancers</i> , 2019, 11, 610.	1.7	94
35	Preeclampsia-Associated Alteration of DNA Methylation in Fetal Endothelial Progenitor Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 32.	1.8	17
36	A five CpG signature of microRNA methylation in non-CIMP glioblastoma. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 937-950.	1.9	12
37	Integration of heterogeneous functional genomics data in gerontology research to find genes and pathway underlying aging across species. <i>PLoS ONE</i> , 2019, 14, e0214523.	1.1	5
38	Mouse genome-wide association and systems genetics identifies <i>Lhfp</i> as a regulator of bone mass. <i>PLoS Genetics</i> , 2019, 15, e1008123.	1.5	22

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39	Unsupervised discovery of phenotype-specific multi-omics networks. <i>Bioinformatics</i> , 2019, 35, 4336-4343.	1.8	30
40	Protocol Update for large-scale genome and gene function analysis with the PANTHER classification system (v.14.0). <i>Nature Protocols</i> , 2019, 14, 703-721.	5.5	1,041
41	Refining modules to determine functionally significant clusters in molecular networks. <i>BMC Genomics</i> , 2019, 20, 901.	1.2	2
42	In Silico Study of Rett Syndrome Treatment-Related Genes, MECP2, CDKL5, and FOXP1, by Evolutionary Classification and Disordered Region Assessment. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5593.	1.8	12
43	Profiling the microRNA signature of the peripheral sensory ganglia in experimental autoimmune encephalomyelitis (EAE). <i>Journal of Neuroinflammation</i> , 2019, 16, 223.	3.1	10
44	A systems biology approach reveals neuronal and muscle developmental defects after chronic exposure to ionising radiation in zebrafish. <i>Scientific Reports</i> , 2019, 9, 20241.	1.6	10
45	Sequence-Derived Markers of Drug Targets and Potentially Druggable Human Proteins. <i>Frontiers in Genetics</i> , 2019, 10, 1075.	1.1	14
47	Pan-genome diversification and recombination in <i>Cronobacter sakazakii</i> , an opportunistic pathogen in neonates, and insights to its xerotolerant lifestyle. <i>BMC Microbiology</i> , 2019, 19, 306.	1.3	12
48	<i>Chlamydia psittaci</i> -Infected Dendritic Cells Communicate with NK Cells via Exosomes To Activate Antibacterial Immunity. <i>Infection and Immunity</i> , 2019, 88, .	1.0	19
49	APP-derived peptides reflect neurodegeneration in frontotemporal dementia. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 2518-2530.	1.7	13
50	Global Transcriptomic Profiling of the Bone Marrow Stromal Microenvironment during Postnatal Development, Aging, and Inflammation. <i>Cell Reports</i> , 2019, 29, 3313-3330.e4.	2.9	79
51	Blood transcriptome analysis in a buck-ewe hybrid and its parents. <i>Scientific Reports</i> , 2019, 9, 17492.	1.6	1
52	The Cyclic AMP Receptor Protein Regulates Quorum Sensing and Global Gene Expression in <i>Yersinia pestis</i> during Planktonic Growth and Growth in Biofilms. <i>MBio</i> , 2019, 10, .	1.8	24
53	HSF1Base: A Comprehensive Database of HSF1 (Heat Shock Factor 1) Target Genes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5815.	1.8	56
54	ROBOKOP KG and KGB: Integrated Knowledge Graphs from Federated Sources. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4968-4973.	2.5	36
55	RNAseq Analysis of the Response of <i>Arabidopsis thaliana</i> to Fractional Gravity Under Blue-Light Stimulation During Spaceflight. <i>Frontiers in Plant Science</i> , 2019, 10, 1529.	1.7	42
56	Gigantol Targets Cancer Stem Cells and Destabilizes Tumors via the Suppression of the PI3K/AKT and JAK/STAT Pathways in Ectopic Lung Cancer Xenografts. <i>Cancers</i> , 2019, 11, 2032.	1.7	33
57	Cigarette Smoke Condensate Exposure Changes RNA Content of Extracellular Vesicles Released from Small Airway Epithelial Cells. <i>Cells</i> , 2019, 8, 1652.	1.8	26

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58	Genome sequencing of <i>Mycobacterium pinnipedii</i> strains: genetic characterization and evidence of superinfection in a South American sea lion (<i>Otaria flavescens</i>). <i>BMC Genomics</i> , 2019, 20, 1030.	1.2	21
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60	Tissue-Resident Memory T Cells Mediate Immune Homeostasis in the Human Pancreas through the PD-1/PD-L1 Pathway. <i>Cell Reports</i> , 2019, 29, 3916-3932.e5.	2.9	69
61	Discrimination of Dormant and Active Hematopoietic Stem Cells by G0 Marker Reveals Dormancy Regulation by Cytoplasmic Calcium. <i>Cell Reports</i> , 2019, 29, 4144-4158.e7.	2.9	27
62	Molecular response of <i>Deinococcus radiodurans</i> to simulated microgravity explored by proteometabolomic approach. <i>Scientific Reports</i> , 2019, 9, 18462.	1.6	20
63	Transcriptome dynamics of long noncoding RNAs and transcription factors demarcate human neonatal, adult, and human mesenchymal stem cell-derived engineered cartilage. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 29-44.	1.3	5
64	The proteome and its dynamics: A missing piece for integrative multi-omics in schizophrenia. <i>Schizophrenia Research</i> , 2020, 217, 148-161.	1.1	16
65	miRDB: an online database for prediction of functional microRNA targets. <i>Nucleic Acids Research</i> , 2020, 48, D127-D131.	6.5	1,673
66	Genomic Resources for Darters (Percidae: Etheostominae) Provide Insight into Postzygotic Barriers Implicated in Speciation. <i>Molecular Biology and Evolution</i> , 2020, 37, 711-729.	3.5	22
67	Gene regulatory network inference resources: A practical overview. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2020, 1863, 194430.	0.9	93
68	Assessing genomic diversity and signatures of selection in Original Braunvieh cattle using whole-genome sequencing data. <i>BMC Genomics</i> , 2020, 21, 27.	1.2	47
69	No Dataset Left Behind: Mechanistic Insights into Thyroid Receptor Signaling Through Transcriptomic Consensus Meta-Analysis. <i>Thyroid</i> , 2020, 30, 621-639.	2.4	2
70	Clonal kinetics and single-cell transcriptional profiling of CAR-T cells in patients undergoing CD19 CAR-T immunotherapy. <i>Nature Communications</i> , 2020, 11, 219.	5.8	167
71	Dysregulation of Hypothalamic Gene Expression and the Oxytocinergic System by Soybean Oil Diets in Male Mice. <i>Endocrinology</i> , 2020, 161, .	1.4	11
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73	Genetic and physiological mechanisms of freezing tolerance in locally adapted populations of a winter annual. <i>American Journal of Botany</i> , 2020, 107, 250-261.	0.8	15
74	Methylmercury Induces Metabolic Alterations in <i>Caenorhabditis elegans</i> : Role for C/EBP Transcription Factor. <i>Toxicological Sciences</i> , 2020, 174, 112-123.	1.4	11
75	<i>Arabidopsis</i> EDR1 Protein Kinase Regulates the Association of EDS1 and PAD4 to Inhibit Cell Death. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 693-703.	1.4	17

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77	Ensembl Genomes 2020â€”enabling non-vertebrate genomic research. <i>Nucleic Acids Research</i> , 2020, 48, D689-D695.	6.5	416
78	High-throughput phenotyping reveals expansive genetic and structural underpinnings of immune variation. <i>Nature Immunology</i> , 2020, 21, 86-100.	7.0	32
79	Early single-dose treatment with exosomes provides neuroprotection and improves blood-brain barrier integrity in swine model of traumatic brain injury and hemorrhagic shock. <i>Journal of Trauma and Acute Care Surgery</i> , 2020, 88, 207-218.	1.1	53
80	Structural Fuzziness of the RNA-Organizing Protein SERF Determines a Toxic Gain-of-interaction. <i>Journal of Molecular Biology</i> , 2020, 432, 930-951.	2.0	18
81	Epigenomic characterization of <i>Clostridioides difficile</i> finds a conserved DNA methyltransferase that mediates sporulation and pathogenesis. <i>Nature Microbiology</i> , 2020, 5, 166-180.	5.9	75
82	Early removal of senescent cells protects retinal ganglion cells loss in experimental ocular hypertension. <i>Aging Cell</i> , 2020, 19, e13089.	3.0	45
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84	Profiling Cysteine Reactivity and Oxidation in the Endoplasmic Reticulum. <i>ACS Chemical Biology</i> , 2020, 15, 543-553.	1.6	27
85	A fully integrated machine learning scan of selection in the chimpanzee genome. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa061.	1.5	1
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89	SARS-CoV-2-human protein-protein interaction network. <i>Informatics in Medicine Unlocked</i> , 2020, 20, 100413.	1.9	42
90	You Want it Sweeter: How Glycosylation Affects Plant Response to Oxidative Stress. <i>Frontiers in Plant Science</i> , 2020, 11, 571399.	1.7	32
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95	Mutations disrupting neuritogenesis genes confer risk for cerebral palsy. <i>Nature Genetics</i> , 2020, 52, 1046-1056.	9.4	96
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98	Conserved Functions of Ether Lipids and Sphingolipids in the Early Secretory Pathway. <i>Current Biology</i> , 2020, 30, 3775-3787.e7.	1.8	59
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108	Evolutionary Study of Disorder in Protein Sequences. <i>Biomolecules</i> , 2020, 10, 1413.	1.8	16
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110	Proteome Analysis of Walnut Bacterial Blight Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7453.	1.8	12
111	Transcriptome analysis of <i>Actinoplanes utahensis</i> reveals molecular signature of saccharide impact on acarbose biosynthesis. <i>3 Biotech</i> , 2020, 10, 473.	1.1	4

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112	Sex Differences in Nociceptor Translatomes Contribute to Divergent Prostaglandin Signaling in Male and Female Mice. <i>Biological Psychiatry</i> , 2022, 91, 129-140.	0.7	40
113	The Transcription Factor EIL1 Participates in the Regulation of Sulfur-Deficiency Response. <i>Plant Physiology</i> , 2020, 184, 2120-2136.	2.3	33
114	Vesicle Transport in Plants: A Revised Phylogeny of SNARE Proteins. <i>Evolutionary Bioinformatics</i> , 2020, 16, 117693432095657.	0.6	12
115	Emerging Roles for Phase Separation in Plants. <i>Developmental Cell</i> , 2020, 55, 69-83.	3.1	84
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123	Inhibition of NF- κ B Signaling Alters Acute Myelogenous Leukemia Cell Transcriptomics. <i>Cells</i> , 2020, 9, 1677.	1.8	12
124	Phloem Exudate Protein Profiles during Drought and Recovery Reveal Abiotic Stress Responses in Tomato Vasculature. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4461.	1.8	13
125	Metabogenomics reveals four candidate regions involved in the pathophysiology of Equine Metabolic Syndrome. <i>Molecular and Cellular Probes</i> , 2020, 53, 101620.	0.9	7
126	Tumor Microenvironment-Derived NRG1 Promotes Antiandrogen Resistance in Prostate Cancer. <i>Cancer Cell</i> , 2020, 38, 279-296.e9.	7.7	135
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128	Disclosing the Interactome of Leukemogenic NUP98-HOXA9 and SET-NUP214 Fusion Proteins Using a Proteomic Approach. <i>Cells</i> , 2020, 9, 1666.	1.8	9
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130	The yeast exoribonuclease Xrn1 and associated factors modulate RNA polymerase II processivity in 5â€™ and 3â€™ gene regions. <i>Journal of Biological Chemistry</i> , 2020, 295, 11435-11454.	1.6	25
131	Overexpression of ZePrx in <i>Nicotiana tabacum</i> Affects Lignin Biosynthesis Without Altering Redox Homeostasis. <i>Frontiers in Plant Science</i> , 2020, 11, 900.	1.7	6
132	Proteomic Analysis of Cerebrospinal Fluid in Children with Acute Enterovirus-Associated Meningoencephalitis Identifies Dysregulated Host Processes and Potential Biomarkers. <i>Journal of Proteome Research</i> , 2020, 19, 3487-3498.	1.8	10
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134	Comparative Analysis of Skeletal Muscle Transcriptional Signatures Associated With Aerobic Exercise Capacity or Response to Training in Humans and Rats. <i>Frontiers in Endocrinology</i> , 2020, 11, 591476.	1.5	12
135	Integrative Network Analysis of Predicted miRNA-Targets Regulating Expression of Immune Response Genes in Bovine Coronavirus Infection. <i>Frontiers in Genetics</i> , 2020, 11, 584392.	1.1	8
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137	Dataset on discovery of microRNAs in <i>Centella asiatica</i> (L.) Urb.. <i>Data in Brief</i> , 2020, 33, 106451.	0.5	0
138	Ensemble dimensionality reduction and feature gene extraction for single-cell RNA-seq data. <i>Nature Communications</i> , 2020, 11, 5853.	5.8	23
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142	DNA polymerase epsilon is required for heterochromatin maintenance in <i>Arabidopsis</i> . <i>Genome Biology</i> , 2020, 21, 283.	3.8	14
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144	Identification and differential expression of serotransferrin and apolipoprotein A-I in the plasma of HIV-1 patients treated with first-line antiretroviral therapy. <i>BMC Infectious Diseases</i> , 2020, 20, 898.	1.3	4
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146	Gene Expression Profile in Similar Tissues Using Transcriptome Sequencing Data of Whole-Body Horse Skeletal Muscle. <i>Genes</i> , 2020, 11, 1359.	1.0	2
147	Identification of transcription factor co-regulators that drive prostate cancer progression. <i>Scientific Reports</i> , 2020, 10, 20332.	1.6	19

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149	Astrocyte deletion of $\hat{1}\pm 2$ -Na/K ATPase triggers episodic motor paralysis in mice via a metabolic pathway. <i>Nature Communications</i> , 2020, 11, 6164.	5.8	23
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1979	Fibril treatment changes protein interactions of tau and β -synuclein in human neurons. <i>Journal of Biological Chemistry</i> , 2023, 299, 102888.	1.6	2
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