

Xia Yang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

6,990
citations

37
h-index

83
g-index

115
ext. papers

8,646
ext. citations

8.9
avg, IF

5.42
L-index

#	Paper	IF	Citations
100	An integrative genomics approach to infer causal associations between gene expression and disease. <i>Nature Genetics</i> , 2005 , 37, 710-7	36.3	820
99	Mapping the genetic architecture of gene expression in human liver. <i>PLoS Biology</i> , 2008 , 6, e107	9.7	768
98	Variations in DNA elucidate molecular networks that cause disease. <i>Nature</i> , 2008 , 452, 429-35	50.4	723
97	Tissue-specific expression and regulation of sexually dimorphic genes in mice. <i>Genome Research</i> , 2006 , 16, 995-1004	9.7	628
96	Dosage compensation is less effective in birds than in mammals. <i>Journal of Biology</i> , 2007 , 6, 2		255
95	Impact of type 2 diabetes susceptibility variants on quantitative glycemic traits reveals mechanistic heterogeneity. <i>Diabetes</i> , 2014 , 63, 2158-71	0.9	235
94	Validation of candidate causal genes for obesity that affect shared metabolic pathways and networks. <i>Nature Genetics</i> , 2009 , 41, 415-23	36.3	224
93	Integrating pathway analysis and genetics of gene expression for genome-wide association studies. <i>American Journal of Human Genetics</i> , 2010 , 86, 581-91	11	202
92	Systematic genetic and genomic analysis of cytochrome P450 enzyme activities in human liver. <i>Genome Research</i> , 2010 , 20, 1020-36	9.7	193
91	Co-regulatory networks of human serum proteins link genetics to disease. <i>Science</i> , 2018 , 361, 769-773	33.3	183
90	Integrative genomics reveals novel molecular pathways and gene networks for coronary artery disease. <i>PLoS Genetics</i> , 2014 , 10, e1004502	6	147
89	Liver and adipose expression associated SNPs are enriched for association to type 2 diabetes. <i>PLoS Genetics</i> , 2010 , 6, e1000932	6	139
88	A systems biology framework identifies molecular underpinnings of coronary heart disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1427-34	9.4	125
87	Extended Multiplexing of Tandem Mass Tags (TMT) Labeling Reveals Age and High Fat Diet Specific Proteome Changes in Mouse Epididymal Adipose Tissue. <i>Molecular and Cellular Proteomics</i> , 2017 , 16, 873-890	7.6	122
86	Applications and Limitations of Mouse Models for Understanding Human Atherosclerosis. <i>Cell Metabolism</i> , 2017 , 25, 248-261	24.6	102
85	Common dysregulation network in the human prefrontal cortex underlies two neurodegenerative diseases. <i>Molecular Systems Biology</i> , 2014 , 10, 743	12.2	101
84	Targeting BCAA Catabolism to Treat Obesity-Associated Insulin Resistance. <i>Diabetes</i> , 2019 , 68, 1730-1746	6.9	100

83	Systems analysis of eleven rodent disease models reveals an inflammatome signature and key drivers. <i>Molecular Systems Biology</i> , 2012 , 8, 594	12.2	95
82	A meta-analysis of gene expression signatures of blood pressure and hypertension. <i>PLoS Genetics</i> , 2015 , 11, e1005035	6	83
81	Integrative network analysis reveals molecular mechanisms of blood pressure regulation. <i>Molecular Systems Biology</i> , 2015 , 11, 799	12.2	72
80	Integration of Multi-omics Data from Mouse Diversity Panel Highlights Mitochondrial Dysfunction in Non-alcoholic Fatty Liver Disease. <i>Cell Systems</i> , 2018 , 6, 103-115.e7	10.6	69
79	Identification and validation of N-acetyltransferase 2 as an insulin sensitivity gene. <i>Journal of Clinical Investigation</i> , 2015 , 125, 1739-51	15.9	67
78	Exposure to the BPA-Substitute Bisphenol S Causes Unique Alterations of Germline Function. <i>PLoS Genetics</i> , 2016 , 12, e1006223	6	65
77	Prediction of Causal Candidate Genes in Coronary Artery Disease Loci. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 2207-17	9.4	64
76	Single cell molecular alterations reveal target cells and pathways of concussive brain injury. <i>Nature Communications</i> , 2018 , 9, 3894	17.4	64
75	Single cell analysis reveals immune cell-adipocyte crosstalk regulating the transcription of thermogenic adipocytes. <i>ELife</i> , 2019 , 8,	8.9	61
74	Traumatic Brain Injury Induces Genome-Wide Transcriptomic, Methylomic, and Network Perturbations in Brain and Blood Predicting Neurological Disorders. <i>EBioMedicine</i> , 2017 , 16, 184-194	8.8	56
73	Mergeomics: multidimensional data integration to identify pathogenic perturbations to biological systems. <i>BMC Genomics</i> , 2016 , 17, 874	4.5	56
72	Integrative analysis of a cross-loci regulation network identifies App as a gene regulating insulin secretion from pancreatic islets. <i>PLoS Genetics</i> , 2012 , 8, e1003107	6	49
71	Shared genetic regulatory networks for cardiovascular disease and type 2 diabetes in multiple populations of diverse ethnicities in the United States. <i>PLoS Genetics</i> , 2017 , 13, e1007040	6	48
70	Dissecting the roles of microRNAs in coronary heart disease via integrative genomic analyses. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1011-21	9.4	46
69	Systems Nutrigenomics Reveals Brain Gene Networks Linking Metabolic and Brain Disorders. <i>EBioMedicine</i> , 2016 , 7, 157-66	8.8	46
68	Network-Based Identification and Prioritization of Key Regulators of Coronary Artery Disease Loci. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 928-41	9.4	42
67	Identification and validation of genes affecting aortic lesions in mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 2414-22	15.9	42
66	Systems Biology Approaches and Applications in Obesity, Diabetes, and Cardiovascular Diseases. <i>Current Cardiovascular Risk Reports</i> , 2013 , 7, 73-83	0.9	41

65	Tissue-specific pathways and networks underlying sexual dimorphism in non-alcoholic fatty liver disease. <i>Biology of Sex Differences</i> , 2018 , 9, 46	9.3	40
64	Molecular and genetic inflammation networks in major human diseases. <i>Molecular BioSystems</i> , 2016 , 12, 2318-41		39
63	Characterization of TCF21 Downstream Target Regions Identifies a Transcriptional Network Linking Multiple Independent Coronary Artery Disease Loci. <i>PLoS Genetics</i> , 2015 , 11, e1005202	6	36
62	Shared molecular pathways and gene networks for cardiovascular disease and type 2 diabetes mellitus in women across diverse ethnicities. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 911-9		35
61	The Genetic Architecture of Diet-Induced Hepatic Fibrosis in Mice. <i>Hepatology</i> , 2018 , 68, 2182-2196	11.2	34
60	Mergeomics: a web server for identifying pathological pathways, networks, and key regulators via multidimensional data integration. <i>BMC Genomics</i> , 2016 , 17, 722	4.5	33
59	The Memory of Environmental Chemical Exposure in <i>C. elegans</i> Is Dependent on the Jumonji Demethylases jmjd-2 and jmjd-3/utx-1. <i>Cell Reports</i> , 2018 , 23, 2392-2404	10.6	32
58	Integrating genetic association, genetics of gene expression, and single nucleotide polymorphism set analysis to identify susceptibility Loci for type 2 diabetes mellitus. <i>American Journal of Epidemiology</i> , 2012 , 176, 423-30	3.8	28
57	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. <i>Nature Communications</i> , 2018 , 9, 2292	17.4	26
56	Integrative genomics strategies to elucidate the complexity of drug response. <i>Pharmacogenomics</i> , 2011 , 12, 1695-715	2.6	25
55	Prenatal Bisphenol A Exposure in Mice Induces Multitissue Multiomics Disruptions Linking to Cardiometabolic Disorders. <i>Endocrinology</i> , 2019 , 160, 409-429	4.8	23
54	Shared mechanisms among neurodegenerative diseases: from genetic factors to gene networks. <i>Journal of Genetics</i> , 2018 , 97, 795-806	1.2	22
53	Use of functional genomics to identify candidate genes underlying human genetic association studies of vascular diseases. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 216-22	9.4	22
52	Multi-omics integration reveals molecular networks and regulators of psoriasis. <i>BMC Systems Biology</i> , 2019 , 13, 8	3.5	22
51	Network modeling of single-cell omics data: challenges, opportunities, and progresses. <i>Emerging Topics in Life Sciences</i> , 2019 , 3, 379-398	3.5	21
50	Nutritional systems biology of type 2 diabetes. <i>Genes and Nutrition</i> , 2015 , 10, 481	4.3	20
49	Hypothalamic estrogen receptor alpha establishes a sexually dimorphic regulatory node of energy expenditure. <i>Nature Metabolism</i> , 2020 , 2, 351-363	14.6	20
48	Multitissue Multiomics Systems Biology to Dissect Complex Diseases. <i>Trends in Molecular Medicine</i> , 2020 , 26, 718-728	11.5	19

47	Conservation and divergence of vulnerability and responses to stressors between human and mouse astrocytes. <i>Nature Communications</i> , 2021 , 12, 3958	17.4	19
46	JCAD, a Gene at the 10p11 Coronary Artery Disease Locus, Regulates Hippo Signaling in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1711-1722	9.4	19
45	Multidimensional Integrative Genomics Approaches to Dissecting Cardiovascular Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2017 , 4, 8	5.4	18
44	The pathogenesis of obesity from a genomic and systems biology perspective. <i>Yale Journal of Biology and Medicine</i> , 2014 , 87, 113-26	2.4	17
43	Network Modeling Approaches and Applications to Unravelling Non-Alcoholic Fatty Liver Disease. <i>Genes</i> , 2019 , 10,	4.2	16
42	Systems genetics applications in metabolism research. <i>Nature Metabolism</i> , 2019 , 1, 1038-1050	14.6	15
41	Single-cell RNA-seq analysis of the brainstem of mutant SOD1 mice reveals perturbed cell types and pathways of amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2020 , 141, 104877	7.5	14
40	Liver ChREBP Protects Against Fructose-Induced Glycogenic Hepatotoxicity by Regulating L-Type Pyruvate Kinase. <i>Diabetes</i> , 2020 , 69, 591-602	0.9	13
39	Shared mechanisms among neurodegenerative diseases: from genetic factors to gene networks. <i>Journal of Genetics</i> , 2018 , 97, 795-806	1.2	13
38	Differential metabolic and multi-tissue transcriptomic responses to fructose consumption among genetically diverse mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020 , 1866, 165569	6.9	13
37	Novel Treatment of Hypertension by Specifically Targeting E2F for Restoration of Endothelial Dihydrofolate Reductase and eNOS Function Under Oxidative Stress. <i>Hypertension</i> , 2019 , 73, 179-189	8.5	13
36	Translating GWAS Findings to Novel Therapeutic Targets for Coronary Artery Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 56	5.4	12
35	GM-CSF driven myeloid cells in adipose tissue link weight gain and insulin resistance via formation of 2-aminoadipate. <i>Scientific Reports</i> , 2018 , 8, 11485	4.9	12
34	MethylResolver-a method for deconvoluting bulk DNA methylation profiles into known and unknown cell contents. <i>Communications Biology</i> , 2020 , 3, 422	6.7	12
33	Systems toxicogenomics of prenatal low-dose BPA exposure on liver metabolic pathways, gut microbiota, and metabolic health in mice. <i>Environment International</i> , 2021 , 146, 106260	12.9	12
32	Biglycan gene connects metabolic dysfunction with brain disorder. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 3679-3687	6.9	11
31	A systems genetics study of swine illustrates mechanisms underlying human phenotypic traits. <i>BMC Genomics</i> , 2015 , 16, 88	4.5	10
30	Transcription Factor MAFF (MAF Basic Leucine Zipper Transcription Factor F) Regulates an Atherosclerosis Relevant Network Connecting Inflammation and Cholesterol Metabolism. <i>Circulation</i> , 2021 , 143, 1809-1823	16.7	10

29	Single-Cell Study of Two Rat Models of Pulmonary Arterial Hypertension Reveals Connections to Human Pathobiology and Drug Repositioning. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 203, 1006-1022	10.2	10
28	System biology approach intersecting diet and cell metabolism with pathogenesis of brain disorders. <i>Progress in Neurobiology</i> , 2018 , 169, 76-90	10.9	9
27	Joint cell segmentation and cell type annotation for spatial transcriptomics. <i>Molecular Systems Biology</i> , 2021 , 17, e10108	12.2	8
26	Integrative Genomics Analysis Unravels Tissue-Specific Pathways, Networks, and Key Regulators of Blood Pressure Regulation. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 21	5.4	7
25	Functional genomics- and network-driven systems biology approaches for pharmacogenomics and toxicogenomics. <i>Current Drug Metabolism</i> , 2012 , 13, 952-67	3.5	7
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	4.1	6
23	Oral 15-Hydroxyeicosatetraenoic Acid Induces Pulmonary Hypertension in Mice by Triggering T Cell-Dependent Endothelial Cell Apoptosis. <i>Hypertension</i> , 2020 , 76, 985-996	8.5	6
22	Host Genetic Background and Gut Microbiota Contribute to Differential Metabolic Responses to Fructose Consumption in Mice. <i>Journal of Nutrition</i> , 2020 , 150, 2716-2728	4.1	6
21	Brain Trauma Disrupts Hepatic Lipid Metabolism: Blame It on Fructose?. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1801054	5.9	5
20	Therapeutic IDOL Reduction Ameliorates Amyloidosis and Improves Cognitive Function in APP/PS1 Mice. <i>Molecular and Cellular Biology</i> , 2020 , 40,	4.8	5
19	Omega-3 fatty acids increase OXPHOS energy for immune therapy of Alzheimer disease patients. <i>FASEB Journal</i> , 2020 , 34, 9982-9994	0.9	5
18	IDOL regulates systemic energy balance through control of neuronal VLDLR expression. <i>Nature Metabolism</i> , 2019 , 1, 1089-1100	14.6	5
17	Maternal High-Protein and Low-Protein Diets Perturb Hypothalamus and Liver Transcriptome and Metabolic Homeostasis in Adult Mouse Offspring. <i>Frontiers in Genetics</i> , 2018 , 9, 642	4.5	5
16	Innate Immune Cells Are Regulated by Axl in Hypertensive Kidney. <i>American Journal of Pathology</i> , 2018 , 188, 1794-1806	5.8	4
15	Mergeomics 2.0: a web server for multi-omics data integration to elucidate disease networks and predict therapeutics. <i>Nucleic Acids Research</i> , 2021 , 49, W375-W387	20.1	4
14	Host Genetic Background and Gut Microbiota Contribute to Differential Metabolic Responses to High Fructose Consumption in Mice. <i>Diabetes</i> , 2018 , 67, 290-LB	0.9	3
13	IAPP-induced beta cell stress recapitulates the islet transcriptome in type 2 diabetes. <i>Diabetologia</i> , 2022 , 65, 173-187	10.3	3
12	Estrogen receptor alpha in the brain mediates tamoxifen-induced changes in physiology in mice. <i>ELife</i> , 2021 , 10,	8.9	2

11	Disparate Metabolomic Responses to Fructose Consumption between Different Mouse Strains and the Role of Gut Microbiota. <i>Metabolites</i> , 2021 , 11,	5.6	2
10	Unveiling the Pathogenesis of Psychiatric Disorders Using Network Models. <i>Genes</i> , 2021 , 12,	4.2	2
9	Gene networks and pathways for plasma lipid traits via multitissue multiomics systems analysis. <i>Journal of Lipid Research</i> , 2021 , 62, 100019	6.3	2
8	Conservation and divergence of vulnerability and responses to stressors between human and mouse astrocytes		1
7	Cold-associated mammokines preserve adipocyte identity		1
6	PharmOmics: A Species- and Tissue-specific Drug Signature Database and Online Tool for Drug Repurposing		1
5	Multi-Tissue Multi-Omics Nutrigenomics Indicates Context-Specific Effects of Docosahexaenoic Acid on Rat Brain. <i>Molecular Nutrition and Food Research</i> , 2020 , 64, e2000788	5.9	0
4	PharmOmics: A species- and tissue-specific drug signature database and gene-network-based drug repositioning tool.. <i>IScience</i> , 2022 , 25, 104052	6.1	0
3	Novel Treatment of Hypertension by Specifically Targeting E2F for Restoration of Endothelial Dihydrofolate Reductase and eNOS Function Under Oxidative Stress. <i>FASEB Journal</i> , 2019 , 33, 835.15	0.9	
2	The 2020 FASEB virtual Catalyst Conference on Integrative Approach for Complex Diseases Prevention and Management and Beyond, December 16, 2020. <i>FASEB Journal</i> , 2021 , 35, e21500	0.9	
1	Bioinformatics network analyses of growth differentiation factor 11.. <i>Open Life Sciences</i> , 2022 , 17, 426-437		