

Xia Yang

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

9,750
citations

66234

42
h-index

40881

93
g-index

115
all docs

115
docs citations

115
times ranked

17120
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrative genomics approach to infer causal associations between gene expression and disease. <i>Nature Genetics</i> , 2005, 37, 710-717.	9.4	967
2	Mapping the Genetic Architecture of Gene Expression in Human Liver. <i>PLoS Biology</i> , 2008, 6, e107.	2.6	872
3	Variations in DNA elucidate molecular networks that cause disease. <i>Nature</i> , 2008, 452, 429-435.	13.7	840
4	Tissue-specific expression and regulation of sexually dimorphic genes in mice. <i>Genome Research</i> , 2006, 16, 995-1004.	2.4	785
5	Co-regulatory networks of human serum proteins link genetics to disease. <i>Science</i> , 2018, 361, 769-773.	6.0	375
6	Dosage compensation is less effective in birds than in mammals. <i>Journal of Biology</i> , 2007, 6, 2.	2.7	304
7	Impact of Type 2 Diabetes Susceptibility Variants on Quantitative Glycemic Traits Reveals Mechanistic Heterogeneity. <i>Diabetes</i> , 2014, 63, 2158-2171.	0.3	297
8	Validation of candidate causal genes for obesity that affect shared metabolic pathways and networks. <i>Nature Genetics</i> , 2009, 41, 415-423.	9.4	257
9	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.	2.5	240
10	Systematic genetic and genomic analysis of cytochrome P450 enzyme activities in human liver. <i>Genome Research</i> , 2010, 20, 1020-1036.	2.4	231
11	Integrating Pathway Analysis and Genetics of Gene Expression for Genome-wide Association Studies. <i>American Journal of Human Genetics</i> , 2010, 86, 581-591.	2.6	224
12	Targeting BCAA Catabolism to Treat Obesity-Associated Insulin Resistance. <i>Diabetes</i> , 2019, 68, 1730-1746.	0.3	201
13	Integrative Genomics Reveals Novel Molecular Pathways and Gene Networks for Coronary Artery Disease. <i>PLoS Genetics</i> , 2014, 10, e1004502.	1.5	192
14	Common dysregulation network in the human prefrontal cortex underlies two neurodegenerative diseases. <i>Molecular Systems Biology</i> , 2014, 10, 743.	3.2	182
15	Liver and Adipose Expression Associated SNPs Are Enriched for Association to Type 2 Diabetes. <i>PLoS Genetics</i> , 2010, 6, e1000932.	1.5	161
16	Applications and Limitations of Mouse Models for Understanding Human Atherosclerosis. <i>Cell Metabolism</i> , 2017, 25, 248-261.	7.2	161
17	A Systems Biology Framework Identifies Molecular Underpinnings of Coronary Heart Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1427-1434.	1.1	157
18	Systems analysis of eleven rodent disease models reveals an inflammatome signature and key drivers. <i>Molecular Systems Biology</i> , 2012, 8, 594.	3.2	134

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19	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.	2.9	124
20	Single cell molecular alterations reveal target cells and pathways of concussive brain injury. <i>Nature Communications</i> , 2018, 9, 3894.	5.8	113
21	Single cell analysis reveals immune cell-adipocyte crosstalk regulating the transcription of thermogenic adipocytes. <i>ELife</i> , 2019, 8, .	2.8	110
22	A Meta-analysis of Gene Expression Signatures of Blood Pressure and Hypertension. <i>PLoS Genetics</i> , 2015, 11, e1005035.	1.5	107
23	Mergeomics: multidimensional data integration to identify pathogenic perturbations to biological systems. <i>BMC Genomics</i> , 2016, 17, 874.	1.2	106
24	Integrative network analysis reveals molecular mechanisms of blood pressure regulation. <i>Molecular Systems Biology</i> , 2015, 11, 799.	3.2	102
25	Prediction of Causal Candidate Genes in Coronary Artery Disease Loci. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2207-2217.	1.1	101
26	Identification and validation of N-acetyltransferase 2 as an insulin sensitivity gene. <i>Journal of Clinical Investigation</i> , 2015, 125, 1739-1751.	3.9	94
27	Conservation and divergence of vulnerability and responses to stressors between human and mouse astrocytes. <i>Nature Communications</i> , 2021, 12, 3958.	5.8	94
28	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.	2.7	88
29	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.	1.5	82
30	Exposure to the BPA-Substitute Bisphenol S Causes Unique Alterations of Germline Function. <i>PLoS Genetics</i> , 2016, 12, e1006223.	1.5	80
31	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.	1.5	76
32	Network-Based Identification and Prioritization of Key Regulators of Coronary Artery Disease Loci. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 928-941.	1.1	66
33	Tissue-specific pathways and networks underlying sexual dimorphism in non-alcoholic fatty liver disease. <i>Biology of Sex Differences</i> , 2018, 9, 46.	1.8	65
34	Hypothalamic oestrogen receptor alpha establishes a sexually dimorphic regulatory node of energy expenditure. <i>Nature Metabolism</i> , 2020, 2, 351-363.	5.1	61
35	Systems Nutrigenomics Reveals Brain Gene Networks Linking Metabolic and Brain Disorders. <i>EBioMedicine</i> , 2016, 7, 157-166.	2.7	59
36	Mergeomics: a web server for identifying pathological pathways, networks, and key regulators via multidimensional data integration. <i>BMC Genomics</i> , 2016, 17, 722.	1.2	59

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37	Dissecting the Roles of MicroRNAs in Coronary Heart Disease via Integrative Genomic Analyses. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1011-1021.	1.1	53
38	The Memory of Environmental Chemical Exposure in <i>C.Âlegans</i> Is Dependent on the Jumonji Demethylases <i>jmjd-2</i> and <i>jmjd-3/utx-1</i> . <i>Cell Reports</i> , 2018, 23, 2392-2404.	2.9	53
39	The Genetic Architecture of Dietâ€nduced Hepatic Fibrosis in Mice. <i>Hepatology</i> , 2018, 68, 2182-2196.	3.6	51
40	Shared mechanisms among neurodegenerative diseases: from genetic factors to gene networks. <i>Journal of Genetics</i> , 2018, 97, 795-806.	0.4	50
41	Systems Biology Approaches and Applications in Obesity, Diabetes, and Cardiovascular Diseases. <i>Current Cardiovascular Risk Reports</i> , 2013, 7, 73-83.	0.8	49
42	Molecular and genetic inflammation networks in major human diseases. <i>Molecular BioSystems</i> , 2016, 12, 2318-2341.	2.9	49
43	Identification and validation of genes affecting aortic lesions in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2414-2422.	3.9	49
44	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, 911-919.	5.1	48
45	Network modeling of single-cell omics data: challenges, opportunities, and progresses. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 379-398.	1.1	48
46	Single-cell RNA-seq analysis of the brainstem of mutant <i>SOD1</i> mice reveals perturbed cell types and pathways of amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2020, 141, 104877.	2.1	48
47	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.	6.5	46
48	Joint cell segmentation and cell type annotation for spatial transcriptomics. <i>Molecular Systems Biology</i> , 2021, 17, e10108.	3.2	46
49	Oxidized phospholipids regulate amino acid metabolism through <i>MTHFD2</i> to facilitate nucleotide release in endothelial cells. <i>Nature Communications</i> , 2018, 9, 2292.	5.8	44
50	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.	4.8	42
51	Characterization of <i>TCF21</i> Downstream Target Regions Identifies a Transcriptional Network Linking Multiple Independent Coronary Artery Disease Loci. <i>PLoS Genetics</i> , 2015, 11, e1005202.	1.5	41
52	Multitissue Multiomics Systems Biology to Dissect Complex Diseases. <i>Trends in Molecular Medicine</i> , 2020, 26, 718-728.	3.5	39
53	Multi-omics integration reveals molecular networks and regulators of psoriasis. <i>BMC Systems Biology</i> , 2019, 13, 8.	3.0	37
54	<i>ICAD</i> , 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.	1.1	36

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55	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.	2.5	36
56	Systems genetics applications in metabolism research. <i>Nature Metabolism</i> , 2019, 1, 1038-1050.	5.1	35
57	Prenatal Bisphenol A Exposure in Mice Induces Multitissue Multiomics Disruptions Linking to Cardiometabolic Disorders. <i>Endocrinology</i> , 2019, 160, 409-429.	1.4	35
58	MethylResolver—a method for deconvoluting bulk DNA methylation profiles into known and unknown cell contents. <i>Communications Biology</i> , 2020, 3, 422.	2.0	33
59	Liver ChREBP Protects Against Fructose-Induced Glycogenic Hepatotoxicity by Regulating L-Type Pyruvate Kinase. <i>Diabetes</i> , 2020, 69, 591-602.	0.3	32
60	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, 423-430.	1.6	31
61	Integrative genomics strategies to elucidate the complexity of drug response. <i>Pharmacogenomics</i> , 2011, 12, 1695-1715.	0.6	28
62	A systems genetics study of swine illustrates mechanisms underlying human phenotypic traits. <i>BMC Genomics</i> , 2015, 16, 88.	1.2	28
63	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.	1.6	28
64	Nutritional systems biology of type 2 diabetes. <i>Genes and Nutrition</i> , 2015, 10, 481.	1.2	26
65	Network Modeling Approaches and Applications to Unravelling Non-Alcoholic Fatty Liver Disease. <i>Genes</i> , 2019, 10, 966.	1.0	26
66	Multidimensional Integrative Genomics Approaches to Dissecting Cardiovascular Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 8.	1.1	25
67	Relative contributions of sex hormones, sex chromosomes, and gonads to sex differences in tissue gene regulation. <i>Genome Research</i> , 2022, , .	2.4	23
68	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, 216-222.	1.1	22
69	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.	1.3	22
70	Translating GWAS Findings to Novel Therapeutic Targets for Coronary Artery Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 56.	1.1	21
71	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.	1.8	21
72	The pathogenesis of obesity from a genomic and systems biology perspective. <i>Yale Journal of Biology and Medicine</i> , 2014, 87, 113-26.	0.2	20

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73	Shared mechanisms among neurodegenerative diseases: from genetic factors to gene networks. <i>Journal of Genetics</i> , 2018, 97, 795-806.	0.4	20
74	IAPP-induced beta cell stress recapitulates the islet transcriptome in type 2 diabetes. <i>Diabetologia</i> , 2022, 65, 173-187.	2.9	19
75	Biglycan gene connects metabolic dysfunction with brain disorder. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3679-3687.	1.8	18
76	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.	1.6	18
77	Estrogen receptor alpha in the brain mediates tamoxifen-induced changes in physiology in mice. <i>ELife</i> , 2021, 10, .	2.8	17
78	Integrative Genomics Analysis Unravels Tissue-Specific Pathways, Networks, and Key Regulators of Blood Pressure Regulation. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 21.	1.1	15
79	Oral 15-Hydroxyeicosatetraenoic Acid Induces Pulmonary Hypertension in Mice by Triggering T Cell-Dependent Endothelial Cell Apoptosis. <i>Hypertension</i> , 2020, 76, 985-996.	1.3	15
80	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.	1.3	15
81	Brain Trauma Disrupts Hepatic Lipid Metabolism: Blame It on Fructose?. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1801054.	1.5	12
82	IDOL regulates systemic energy balance through control of neuronal VLDLR expression. <i>Nature Metabolism</i> , 2019, 1, 1089-1100.	5.1	12
83	System biology approach intersecting diet and cell metabolism with pathogenesis of brain disorders. <i>Progress in Neurobiology</i> , 2018, 169, 76-90.	2.8	11
84	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
85	Unveiling the Pathogenesis of Psychiatric Disorders Using Network Models. <i>Genes</i> , 2021, 12, 1101.	1.0	10
86	Functional Genomics- and Network-driven Systems Biology Approaches for Pharmacogenomics and Toxicogenomics. <i>Current Drug Metabolism</i> , 2012, 13, 952-967.	0.7	9
87	Gene networks and pathways for plasma lipid traits via multitissue multiomics systems analysis. <i>Journal of Lipid Research</i> , 2021, 62, 100019.	2.0	9
88	Therapeutic IDOL Reduction Ameliorates Amyloidosis and Improves Cognitive Function in APP/PS1 Mice. <i>Molecular and Cellular Biology</i> , 2020, 40, .	1.1	8
89	PharmOmics: A species- and tissue-specific drug signature database and gene-network-based drug repositioning tool. <i>IScience</i> , 2022, 25, 104052.	1.9	8
90	Disparate Metabolomic Responses to Fructose Consumption between Different Mouse Strains and the Role of Gut Microbiota. <i>Metabolites</i> , 2021, 11, 342.	1.3	7

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91	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.	1.1	6
92	Innate Immune Cells Are Regulated by Axl in Hypertensive Kidney. <i>American Journal of Pathology</i> , 2018, 188, 1794-1806.	1.9	6
93	Omega-3 fatty acids increase OXPHOS energy for immune therapy of Alzheimer disease patients. <i>FASEB Journal</i> , 2020, 34, 9982-9994.	0.2	6
94	Host Genetic Background and Gut Microbiota Contribute to Differential Metabolic Responses to High Fructose Consumption in Mice. <i>Diabetes</i> , 2018, 67, .	0.3	3
95	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.	1.5	2
96	Found in translation core network preservation across liver diseases and species. <i>Cell Reports Medicine</i> , 2021, 2, 100347.	3.3	1
97	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.	0.2	0
98	Abstract 18836: Integrative Pathway Analysis of Genome-wide Association Studies of Carotid Plaque Phenotypes. <i>Circulation</i> , 2015, 132, .	1.6	0
99	Abstract 58: Network-based Identification and Prioritization of Key Regulators of Coronary Artery Disease Loci. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, .	1.1	0
100	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.	0.2	0
101	Bioinformatics network analyses of growth differentiation factor 11. <i>Open Life Sciences</i> , 2022, 17, 426-437.	0.6	0