Yuan-Xiang Pan

List of Publications by Year
in descending order

105 papers	3,248 citations	117625 34 h-index	155660 55 g-index
106 all docs	106 docs citations	106 times ranked	4762 citing authors

#	Article	IF	Citations
1	A maternal low-protein diet during gestation induces hepatic autophagy-related gene expression in a sex-specific manner in Sprague-Dawley rats. British Journal of Nutrition, 2022, 128, 592-603.	2.3	3
2	Singleâ€Cell RNAâ€Seq Profiling Identifies L1 Cell Adhesion Molecule (<i>L1cam</i>) as a Mediator in Colonic Tuft Cells â€•Innate Lymphoid Cell (ILCs) Signaling in the <i>Hnrnp I</i> Knockout Mice. FASEB Journal, 2022, 36, .	0.5	0
3	Singleâ€Cell Sequencing Reveals Distinct Expression Patterns of the Integrated Stress Response (ISR) Pathway Regulating Cell Survival in Secretory Cells in Colon of <i>Hnrnp I</i> Knockout Mice. FASEB Journal, 2022, 36, .	0.5	0
4	Genome-wide cross-cancer analysis illustrates the critical role of bimodal miRNA in patient survival and drug responses to PI3K inhibitors. PLoS Computational Biology, 2022, 18, e1010109.	3.2	1
5	Maternal high-fat diet activates hepatic interleukin-4 in rat male offspring accompanied by increased eosinophil infiltration. American Journal of Physiology - Renal Physiology, 2021, 320, G81-G92.	3.4	3
6	Caloric restriction following early-life high fat-diet feeding represses skeletal muscle TNF in male rats. Journal of Nutritional Biochemistry, 2021, 91, 108598.	4.2	6
7	Low-protein diet during gestation and lactation increases hepatic lipid accumulation through autophagy and histone deacetylase. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E11-E25.	3.5	3
8	Considerations for feature selection using gene pairs and applications in large-scale dataset integration, novel oncogene discovery, and interpretable cancer screening. BMC Medical Genomics, 2020, 13, 148.	1.5	6
9	Role of glucocorticoid signaling in exercise-associated changes in high-fat diet preference in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R515-R528.	1.8	6
10	The Efficacy of miR-20a as a Diagnostic and Prognostic Biomarker for Colorectal Cancer: A Systematic Review and Meta-Analysis. Cancers, 2019, 11, 1111.	3.7	31
11	Tissue-specific changes in Srebf1 and Srebf2 expression and DNA methylation with perinatal phthalate exposure. Environmental Epigenetics, 2019, 5, dvz009.	1.8	8
12	Maternal and Post-weaning High-Fat Diets Produce Distinct DNA Methylation Patterns in Hepatic Metabolic Pathways within Specific Genomic Contexts. International Journal of Molecular Sciences, 2019, 20, 3229.	4.1	10
13	Maternal Low-Fat Diet Programs the Hepatic Epigenome despite Exposure to an Obesogenic Postnatal Diet. Nutrients, 2019, 11, 2075.	4.1	8
14	Hepatic betaine-homocysteine methyltransferase and methionine synthase activity and intermediates of the methionine cycle are altered by choline supply during negative energy balance in Holstein cows. Journal of Dairy Science, 2019, 102, 8305-8318.	3.4	23
15	Epigenetic Regulation of Metabolism and Inflammation by Calorie Restriction. Advances in Nutrition, 2019, 10, 520-536.	6.4	38
16	Methionine Supply During Late-Gestation Triggers Offspring Sex-Specific Divergent Changes in Metabolic and Epigenetic Signatures in Bovine Placenta. Journal of Nutrition, 2019, 149, 6-17.	2.9	30
17	Computational methods to identify bimodal gene expression and facilitate personalized treatment in cancer patients. Journal of Biomedical Informatics: X, 2019, 100, 100001.	4.2	13
18	Perinatal High-Fat Diet and Bisphenol A: Effects on Behavior and Gene Expression in the Medial Prefrontal Cortex. Developmental Neuroscience, 2019, 41, 1-16.	2.0	14

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19	Epigenetic regulation of carnitine palmitoyltransferase 1 (Cpt1a) by high fat diet. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2019, 1862, 141-152.	1.9	36
20	Perinatal phthalate and high-fat diet exposure induce sex-specific changes in adipocyte size and DNA methylation. Journal of Nutritional Biochemistry, 2019, 65, 15-25.	4.2	8
21	Effects of obesity and exercise on colon cancer induction and hematopoiesis in mice. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E210-E220.	3.5	7
22	Hepatic Cystathionine Î²-Synthase Activity Is Increased by Greater Postruminal Supply of Met during the Periparturient Period in Dairy Cows. Current Developments in Nutrition, 2019, 3, nzz128.	0.3	9
23	Early-life Programming of Type 2 Diabetes Mellitus: Understanding the Association between Epigenetics/Genetics and Environmental Factors. Current Genomics, 2019, 20, 453-463.	1.6	12
24	Effects of Perinatal Exposure to Phthalates and a High-Fat Diet on Maternal Behavior and Pup Development and Social Play. Endocrinology, 2018, 159, 1088-1105.	2.8	45
25	Molecular Mechanisms Underlying the Link between Diet and DNA Methylation. International Journal of Molecular Sciences, 2018, 19, 4055.	4.1	82
26	High-fat diet modifies expression of hepatic cellular senescence gene p16(INK4a) through chromatin modifications in adult male rats. Genes and Nutrition, 2018, 13, 6.	2.5	20
27	Near-Infrared (NIR)-labeled probes for miRNAs detection in maternal serum: novel epigenetic markers for assessing placenta function. Epigenetic Diagnosis & Therapy, 2018, 03, .	0.1	0
28	Epigenetic Regulations of Genes Related to Lipid Metabolism by MicroRNA in Mice Fed High Fat Diet. FASEB Journal, 2018, 32, 648.20.	0.5	0
29	Hepatic Autophagy Gene Expression Is Induced by Postâ€Weaning Diets in Spragueâ€Dawley Rats fed with A Lowâ€Protein Diet During Lactation. FASEB Journal, 2018, 32, 648.23.	0.5	0
30	High Fat Diet Blunts the Activation of Canonical Wnt Signaling Pathway Induced by Radiation Therapy in Mouse Colon Epithelia. FASEB Journal, 2018, 32, 648.19.	0.5	0
31	Early-Life Nutritional Programming of Cognitionâ€"The Fundamental Role of Epigenetic Mechanisms in Mediating the Relation between Early-Life Environment and Learning and Memory Process. Advances in Nutrition, 2017, 8, 337-350.	6.4	74
32	Postnatal diet remodels hepatic DNA methylation in metabolic pathways established by a maternal high-fat diet. Epigenomics, 2017, 9, 1387-1402.	2.1	22
33	Placentome Nutrient Transporters and Mammalian Target of Rapamycin Signaling Proteins Are Altered by the Methionine Supply during Late Gestation in Dairy Cows and Are Associated with Newborn Birth Weight. Journal of Nutrition, 2017, 147, 1640-1647.	2.9	48
34	Epigenetic Regulation of Centromere Chromatin Stability by Dietary and Environmental Factors. Advances in Nutrition, 2017, 8, 889-904.	6.4	13
35	Methods and novel technology for microRNA quantification in colorectal cancer screening. Clinical Epigenetics, 2017, 9, 119.	4.1	34
36	Compensatory induction of Fads1 gene expression in heterozygous Fads2-null mice and by diet with a high n-6/n-3 PUFA ratio. Journal of Lipid Research, 2016, 57, 1995-2004.	4.2	27

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37	Genistein exposure inhibits growth and alters steroidogenesis in adult mouse antral follicles. Toxicology and Applied Pharmacology, 2016, 293, 53-62.	2.8	28
38	Induction of autophagy through the activating transcription factor 4 (ATF4)-dependent amino acid response pathway in maternal skeletal muscle may function as the molecular memory in response to gestational protein restriction to alert offspring to maternal nutrition. British Journal of Nutrition, 2015, 114, 519-532.	2.3	17
39	In utero growth restriction and catch-up adipogenesis after developmental di (2-ethylhexyl) phthalate exposure cause glucose intolerance in adult male rats following a high-fat dietary challenge. Journal of Nutritional Biochemistry, 2015, 26, 1208-1220.	4.2	49
40	Early-life exposure to high-fat diet may predispose rats to gender-specific hepatic fat accumulation by programming Pepck expression. Journal of Nutritional Biochemistry, 2015, 26, 433-440.	4.2	37
41	Developmental bisphenol A (BPA) exposure leads to sex-specific modification of hepatic gene expression and epigenome at birth that may exacerbate high-fat diet-induced hepatic steatosis. Toxicology and Applied Pharmacology, 2015, 284, 101-112.	2.8	137
42	High-fat diet caused widespread epigenomic differences on hepatic methylome in rat. Physiological Genomics, 2015, 47, 514-523.	2.3	26
43	Isoflavones in soy flour diet have different effects on wholeâ€genome expression patterns than purified isoflavone mix in human MCFâ€7 breast tumors in ovariectomized athymic nude mice. Molecular Nutrition and Food Research, 2015, 59, 1419-1430.	3.3	20
44	Pathophysiological basis for compromised health beyond generations: role of maternal high-fat diet and low-grade chronic inflammation. Journal of Nutritional Biochemistry, 2015, 26, 1-8.	4.2	45
45	Epigenetic Modification of the <i>Cpt1a</i> Gene at Birth by Developmental Bisphenol A (BPA) Exposure May Program Microvesicular Steatosis in Adult Male Rats Consuming a Highâ€fat Diet. FASEB Journal, 2015, 29, 889.2.	0.5	0
46	Maternal High Fat Dietâ€induced Ilâ€12b Overexpression in Male Offspring rats is Associated with DNA Hypomethylation. FASEB Journal, 2015, 29, 728.40.	0.5	0
47	Amino Acid Deprivation Increases Lipid Accumulation in HepG2 Hepatoma Cells through Repression of Histone Deacetylase 3 (HDAC3). FASEB Journal, 2015, 29, 715.40.	0.5	0
48	Epigenetic Mechanisms of Colon Cancer Prevention: What Can Nutrition Do?. , 2014, , 401-426.		0
49	Genistein Exposure During the Early Postnatal Period Favors the Development of Obesity in Female, But Not Male Rats. Toxicological Sciences, 2014, 138, 161-174.	3.1	38
50	The regulation of hepatic Pon1 by a maternal high-fat diet is gender specific and may occur through promoter histone modifications in neonatal rats. Journal of Nutritional Biochemistry, 2014, 25, 170-176.	4.2	36
51	Maternal Protein and Fat Intake: Epigenetic Consequences on Fetal Development. Oxidative Stress and Disease, 2014, , 87-110.	0.3	0
52	Low protein diet during gestation and lactation induces autophagyâ€related gene LC3 in the liver of rat dams (737.5). FASEB Journal, 2014, 28, 737.5.	0.5	0
53	Maternal high fat diet programs gene expression of adipogenic transcription factors through regulating histone modifiers in a genderâ€dependent manner. FASEB Journal, 2013, 27, 837.3.	0.5	0
54	High Fat Diet Induced Genomeâ€wide Differential Methylation Affecting Hepatic Signaling Pathways In Rat. FASEB Journal, 2013, 27, 981.6.	0.5	0

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55	Histone deacetylase 3 (HDAC3) participates in the transcriptional repression of the<i>p16^{INK4a}</i>gene in mammary gland of the female rat offspring exposed to an early-life high-fat diet. Epigenetics, 2012, 7, 183-190.	2.7	28
56	Hepatic cellular senescence pathway genes are induced through histone modifications in a diet-induced obese rat model. American Journal of Physiology - Renal Physiology, 2012, 302, G558-G564.	3.4	48
57	A Decrease in DKK1, a WNT Inhibitor, Contributes to Placental Lipid Accumulation in an Obesity-Prone Rat Model1. Biology of Reproduction, 2012, 86, 81.	2.7	46
58	A gestational low-protein diet represses p21^{WAF1/Cip1}expression in the mammary gland of offspring rats through promoter histone modifications. British Journal of Nutrition, 2012, 108, 998-1007.	2.3	21
59	The Skeletal Muscle Wnt Pathway May Modulate Insulin Resistance and Muscle Development in a Dietâ€Induced Obese Rat Model. Obesity, 2012, 20, 1577-1584.	3.0	20
60	Protein restriction during gestation alters histone modifications at the glucose transporter 4 (GLUT4) promoter region and induces GLUT4 expression in skeletal muscle of female rat offspring. Journal of Nutritional Biochemistry, 2012, 23, 1064-1071.	4.2	42
61	<i>In Utero</i>Oxidative Stress Epigenetically Programs Antioxidant Defense Capacity and Adulthood Diseases. Antioxidants and Redox Signaling, 2012, 17, 237-253.	5.4	28
62	Decreased Phosphorylation of Histone H3 serine 10 by Genistein is Associated with the Transcriptional Upregulation of ATF3 in DLDâ€1 Colon Cancer Cells. FASEB Journal, 2012, 26, 969.6.	0.5	0
63	Dickkopf homolog 1, a Wnt signaling antagonist, is transcriptionally up-regulated via an ATF4-independent and MAPK/ERK-dependent pathway following amino acid deprivation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2011, 1809, 306-315.	1.9	6
64	Gestational low protein diet selectively induces the amino acid response pathway target genes in the liver of offspring rats through transcription factor binding and histone modifications. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2011, 1809, 549-556.	1.9	27
65	Gestational high fat diet programs hepatic phosphoenolpyruvate carboxykinase gene expression and histone modification in neonatal offspring rats. Journal of Physiology, 2011, 589, 2707-2717.	2.9	121
66	Histone modifications, not DNA methylation, cause transcriptional repression of p16 (CDKN2A) in the mammary glands of offspring of protein-restricted rats. Journal of Nutritional Biochemistry, 2011, 22, 567-573.	4.2	20
67	Maternal protein restriction during pregnancy induces CCAAT/enhancer-binding protein (C/EBPÎ²) expression through the regulation of histone modification at its promoter region in female offspring rat skeletal muscle. Epigenetics, 2011, 6, 161-170.	2.7	64
68	A Maternal High-Fat Diet Represses the Expression of Antioxidant Defense Genes and Induces the Cellular Senescence Pathway in the Liver of Male Offspring Rats. Journal of Nutrition, 2011, 141, 1254-1259.	2.9	46
69	ATF3 Induction by Genistein is MAPK/ERKâ€•and ATF4â€•independent in Human Cancer Cell DLDâ€1. FASEB Journal, 2011, 25, 916.4.	0.5	0
70	Gestational High Fat Diet Programs Hepatic Gluconeogenic Gene Expression And Histone Modification In Offspring Rats. FASEB Journal, 2011, 25, 351.5.	0.5	1
71	Maternal high fat diet induces Dickkopfâ€1(Dkk1) mRNA in male offspring liver. FASEB Journal, 2011, 25, 351.4.	0.5	0
72	Genistein Affects Dickkopfâ€related Protein 1 (DKK1) Expression Level through Histone Modification in SW480 Human Colon Cancer Cell Line. FASEB Journal, 2011, 25, .	0.5	0

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73	Gestational low protein diet in the rat mediates<i>Igf2</i>gene expression in male offspring via altered hepatic DNA methylation. Epigenetics, 2010, 5, 619-626.	2.7	125
74	A Low-Protein Diet during Gestation in Rats Activates the Placental Mammalian Amino Acid Response Pathway and Programs the Growth Capacity of Offspring. Journal of Nutrition, 2010, 140, 2116-2120.	2.9	34
75	High Fat Diet Induces Expression of Cell Cycle Control Gene p16 In the Liver of Obesity Prone Rats Through Epigenetic Modifications. FASEB Journal, 2010, 24, 212.4.	0.5	1
76	Epigenetic Modifications Cause Transcriptional Repression of p21 Gene in Mammary Gland in the Offspring of Proteinâ€Restricted Rats. FASEB Journal, 2010, 24, 344.5.	0.5	0
77	Maternal Low Protein Diet Induces Amino Acid Response (AAR) Pathway in the Liver of Dam Rat. FASEB Journal, 2010, 24, 212.5.	0.5	0
78	Obese rat pregnancy impaired fetal development independent of diet and involved the placental WNT pathway. FASEB Journal, 2010, 24, 212.3.	0.5	0
79	Correlation between asparaginase sensitivity and asparagine synthetase protein content, but not mRNA, in acute lymphoblastic leukemia cell lines. Pediatric Blood and Cancer, 2008, 50, 274-279.	1.5	73
80	Mass spectrometric quantification of asparagine synthetase in circulating leukemia cells from acute lymphoblastic leukemia patients. Journal of Proteomics, 2008, 71, 61-70.	2.4	18
81	MEK Signaling Is Required for Phosphorylation of eIF2Î± following Amino Acid Limitation of HepG2 Human Hepatoma Cells. Journal of Biological Chemistry, 2008, 283, 10848-10857.	3.4	56
82	Deprivation of protein or amino acid induces C/EBPÎ² synthesis and binding to amino acid response elements, but its action is not an absolute requirement for enhanced transcription. Biochemical Journal, 2008, 410, 473-484.	3.7	44
83	Oral Intake of Genistein Changes DNA Methylation at the Promoters of Rat Colon Genes. FASEB Journal, 2008, 22, 885.6.	0.5	0
84	MEK signaling is required for phosphorylation of eIF2a following amino acid limitation of HepG2 human hepatoma cells. FASEB Journal, 2008, 22, 691.16.	0.5	0
85	Influence of dietary availability of protein and carbohydrate on ERK1/2 and Akt signaling in rat liver. FASEB Journal, 2008, 22, 294.2.	0.5	0
86	Maternal Protein and Folate Intake Affects Gene Expression and DNA Methylation in Rat Placenta. FASEB Journal, 2008, 22, 727-727.	0.5	0
87	Activation of the ATF3 gene through a co-ordinated amino acid-sensing response programme that controls transcriptional regulation of responsive genes following amino acid limitation. Biochemical Journal, 2007, 401, 299-307.	3.7	73
88	Pharmacologic inhibition of epigenetic modifications, coupled with gene expression profiling, reveals novel targets of aberrant DNA methylation and histone deacetylation in lung cancer. Oncogene, 2007, 26, 2621-2634.	5.9	121
89	Characterization of the amino acid response element within the human sodium-coupled neutral amino acid transporter 2 (SNAT2) System A transporter gene. Biochemical Journal, 2006, 395, 517-527.	3.7	68
90	An Inhibitor of Human Asparagine Synthetase Suppresses Proliferation of an L-Asparaginase-Resistant Leukemia Cell Line. Chemistry and Biology, 2006, 13, 1339-1347.	6.0	45

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91	Dietary Protein Level and Stage of Development Affect Expression of an Intestinal Peptide Transporter (cPepT1) in Chickens. Journal of Nutrition, 2005, 135, 193-198.	2.9	84
92	Amino-acid limitation induces transcription from the human C/EBPÎ² gene via an enhancer activity located downstream of the protein coding sequence. Biochemical Journal, 2005, 391, 649-658.	3.7	29
93	Functional characterization of a cloned pig intestinal peptide transporter (pPepT1). Journal of Animal Science, 2005, 83, 172-181.	0.5	40
94	Developmental regulation of a turkey intestinal peptide transporter (PepT1). Poultry Science, 2005, 84, 75-82.	3.4	23
95	Interaction of RNA-binding Proteins HuR and AUF1 with the Human ATF3 mRNA 3â€²-Untranslated Region Regulates Its Amino Acid Limitation-induced Stabilization. Journal of Biological Chemistry, 2005, 280, 34609-34616.	3.4	62
96	NUTRITIONAL CONTROL OF GENE EXPRESSION: How Mammalian Cells Respond to Amino Acid Limitation. Annual Review of Nutrition, 2005, 25, 59-85.	10.1	245
97	Human CCAAT/Enhancer-binding Protein Î² Gene Expression Is Activated by Endoplasmic Reticulum Stress through an Unfolded Protein Response Element Downstream of the Protein Coding Sequence. Journal of Biological Chemistry, 2004, 279, 27948-27956.	3.4	58
98	Amino Acid Deprivation Induces the Transcription Rate of the Human Asparagine Synthetase Gene through a Timed Program of Expression and Promoter Binding of Nutrient-responsive Basic Region/Leucine Zipper Transcription Factors as Well as Localized Histone Acetylation. Journal of Biological Chemistry, 2004, 279, 50829-50839.	3.4	168
99	Induction of p21 and p27 expression by amino acid deprivation of HepG2 human hepatoma cells involves mRNA stabilization. Biochemical Journal, 2004, 379, 79-88.	3.7	47
100	Amino Acid Deprivation and Endoplasmic Reticulum Stress Induce Expression of Multiple Activating Transcription Factor-3 mRNA Species That, When Overexpressed in HepG2 Cells, Modulate Transcription by the Human Asparagine Synthetase Promoter. Journal of Biological Chemistry, 2003, 278, 38402-38412.	3.4	94
101	Molecular Cloning and Functional Expression of a Chicken Intestinal Peptide Transporter (cPepT1) in Xenopus Oocytes and Chinese Hamster Ovary Cells. Journal of Nutrition, 2002, 132, 387-393.	2.9	65
102	Poly(A)+ RNA Encoding Proteins Capable of Transporting l-Methionine and/or dl-2-Hydroxy-4-(Methylthio) Butanoic Acid Are Present in the Intestinal Mucosa of Broilers. Journal of Nutrition, 2002, 132, 382-386.	2.9	10
103	Characterization and Regulation of a Cloned Ovine Gastrointestinal Peptide Transporter (oPepT1) Expressed in a Mammalian Cell Line. Journal of Nutrition, 2002, 132, 38-42.	2.9	15
104	Expression of a Cloned Ovine Gastrointestinal Peptide Transporter (oPepT1) in Xenopus Oocytes Induces Uptake of Oligopeptides in Vitro. Journal of Nutrition, 2001, 131, 1264-1270.	2.9	45
105	Poly(A)+ RNA from sheep omasal epithelium induces expression of a peptide transport protein(s) in Xenopus laevis oocytes.. Journal of Animal Science, 1997, 75, 3323.	0.5	14