

Yuan-Xiang Pan

List of Publications by Year in descending order

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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	NUTRITIONAL CONTROL OF GENE EXPRESSION: How Mammalian Cells Respond to Amino Acid Limitation. <i>Annual Review of Nutrition</i> , 2005, 25, 59-85.	10.1	245
2	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. <i>Journal of Biological Chemistry</i> , 2004, 279, 50829-50839.	3.4	168
3	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. <i>Toxicology and Applied Pharmacology</i> , 2015, 284, 101-112.	2.8	137
4	Gestational low protein diet in the rat mediates <i>Igf2</i> gene expression in male offspring via altered hepatic DNA methylation. <i>Epigenetics</i> , 2010, 5, 619-626.	2.7	125
5	Pharmacologic inhibition of epigenetic modifications, coupled with gene expression profiling, reveals novel targets of aberrant DNA methylation and histone deacetylation in lung cancer. <i>Oncogene</i> , 2007, 26, 2621-2634.	5.9	121
6	Gestational high fat diet programs hepatic phosphoenolpyruvate carboxykinase gene expression and histone modification in neonatal offspring rats. <i>Journal of Physiology</i> , 2011, 589, 2707-2717.	2.9	121
7	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. <i>Journal of Biological Chemistry</i> , 2003, 278, 38402-38412.	3.4	94
8	Dietary Protein Level and Stage of Development Affect Expression of an Intestinal Peptide Transporter (cPepT1) in Chickens. <i>Journal of Nutrition</i> , 2005, 135, 193-198.	2.9	84
9	Molecular Mechanisms Underlying the Link between Diet and DNA Methylation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4055.	4.1	82
10	Early-Life Nutritional Programming of Cognition—The Fundamental Role of Epigenetic Mechanisms in Mediating the Relation between Early-Life Environment and Learning and Memory Process. <i>Advances in Nutrition</i> , 2017, 8, 337-350.	6.4	74
11	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. <i>Biochemical Journal</i> , 2007, 401, 299-307.	3.7	73
12	Correlation between asparaginase sensitivity and asparagine synthetase protein content, but not mRNA, in acute lymphoblastic leukemia cell lines. <i>Pediatric Blood and Cancer</i> , 2008, 50, 274-279.	1.5	73
13	Characterization of the amino acid response element within the human sodium-coupled neutral amino acid transporter 2 (SNAT2) System A transporter gene. <i>Biochemical Journal</i> , 2006, 395, 517-527.	3.7	68
14	Molecular Cloning and Functional Expression of a Chicken Intestinal Peptide Transporter (cPepT1) in Xenopus Oocytes and Chinese Hamster Ovary Cells. <i>Journal of Nutrition</i> , 2002, 132, 387-393.	2.9	65
15	Maternal protein restriction during pregnancy induces CCAAT/enhancer-binding protein (C/EBP β) expression through the regulation of histone modification at its promoter region in female offspring rat skeletal muscle. <i>Epigenetics</i> , 2011, 6, 161-170.	2.7	64
16	Interaction of RNA-binding Proteins HuR and AUF1 with the Human ATF3 mRNA 3'-Untranslated Region Regulates Its Amino Acid Limitation-induced Stabilization. <i>Journal of Biological Chemistry</i> , 2005, 280, 34609-34616.	3.4	62
17	Human CCAAT/Enhancer-binding Protein β Gene Expression Is Activated by Endoplasmic Reticulum Stress through an Unfolded Protein Response Element Downstream of the Protein Coding Sequence. <i>Journal of Biological Chemistry</i> , 2004, 279, 27948-27956.	3.4	58
18	MEK Signaling Is Required for Phosphorylation of eIF2 β following Amino Acid Limitation of HepG2 Human Hepatoma Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 10848-10857.	3.4	56

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19	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. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 1208-1220.	4.2	49
20	Hepatic cellular senescence pathway genes are induced through histone modifications in a diet-induced obese rat model. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, G558-G564.	3.4	48
21	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. <i>Journal of Nutrition</i> , 2017, 147, 1640-1647.	2.9	48
22	Induction of p21 and p27 expression by amino acid deprivation of HepG2 human hepatoma cells involves mRNA stabilization. <i>Biochemical Journal</i> , 2004, 379, 79-88.	3.7	47
23	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. <i>Journal of Nutrition</i> , 2011, 141, 1254-1259.	2.9	46
24	A Decrease in DKK1, a WNT Inhibitor, Contributes to Placental Lipid Accumulation in an Obesity-Prone Rat Model. <i>Biology of Reproduction</i> , 2012, 86, 81.	2.7	46
25	Expression of a Cloned Ovine Gastrointestinal Peptide Transporter (oPepT1) in <i>Xenopus</i> Oocytes Induces Uptake of Oligopeptides in Vitro. <i>Journal of Nutrition</i> , 2001, 131, 1264-1270.	2.9	45
26	An Inhibitor of Human Asparagine Synthetase Suppresses Proliferation of an L-Asparaginase-Resistant Leukemia Cell Line. <i>Chemistry and Biology</i> , 2006, 13, 1339-1347.	6.0	45
27	Pathophysiological basis for compromised health beyond generations: role of maternal high-fat diet and low-grade chronic inflammation. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 1-8.	4.2	45
28	Effects of Perinatal Exposure to Phthalates and a High-Fat Diet on Maternal Behavior and Pup Development and Social Play. <i>Endocrinology</i> , 2018, 159, 1088-1105.	2.8	45
29	Deprivation of protein or amino acid induces C/EBP β synthesis and binding to amino acid response elements, but its action is not an absolute requirement for enhanced transcription. <i>Biochemical Journal</i> , 2008, 410, 473-484.	3.7	44
30	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. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 1064-1071.	4.2	42
31	Functional characterization of a cloned pig intestinal peptide transporter (pPepT1). <i>Journal of Animal Science</i> , 2005, 83, 172-181.	0.5	40
32	Genistein Exposure During the Early Postnatal Period Favors the Development of Obesity in Female, But Not Male Rats. <i>Toxicological Sciences</i> , 2014, 138, 161-174.	3.1	38
33	Epigenetic Regulation of Metabolism and Inflammation by Calorie Restriction. <i>Advances in Nutrition</i> , 2019, 10, 520-536.	6.4	38
34	Early-life exposure to high-fat diet may predispose rats to gender-specific hepatic fat accumulation by programming Pepck expression. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 433-440.	4.2	37
35	The regulation of hepatic Pon1 by a maternal high-fat diet is gender specific and may occur through promoter histone modifications in neonatal rats. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 170-176.	4.2	36
36	Epigenetic regulation of carnitine palmitoyltransferase 1 (Cpt1a) by high fat diet. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2019, 1862, 141-152.	1.9	36

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37	A Low-Protein Diet during Gestation in Rats Activates the Placental Mammalian Amino Acid Response Pathway and Programs the Growth Capacity of Offspring. <i>Journal of Nutrition</i> , 2010, 140, 2116-2120.	2.9	34
38	Methods and novel technology for microRNA quantification in colorectal cancer screening. <i>Clinical Epigenetics</i> , 2017, 9, 119.	4.1	34
39	The Efficacy of miR-20a as a Diagnostic and Prognostic Biomarker for Colorectal Cancer: A Systematic Review and Meta-Analysis. <i>Cancers</i> , 2019, 11, 1111.	3.7	31
40	Methionine Supply During Late-Gestation Triggers Offspring Sex-Specific Divergent Changes in Metabolic and Epigenetic Signatures in Bovine Placenta. <i>Journal of Nutrition</i> , 2019, 149, 6-17.	2.9	30
41	Amino-acid limitation induces transcription from the human C/EBP β gene via an enhancer activity located downstream of the protein coding sequence. <i>Biochemical Journal</i> , 2005, 391, 649-658.	3.7	29
42	Histone deacetylase 3 (HDAC3) participates in the transcriptional repression of the p16 ^{INK4a} gene in mammary gland of the female rat offspring exposed to an early-life high-fat diet. <i>Epigenetics</i> , 2012, 7, 183-190.	2.7	28
43	In Utero Oxidative Stress Epigenetically Programs Antioxidant Defense Capacity and Adulthood Diseases. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 237-253.	5.4	28
44	Genistein exposure inhibits growth and alters steroidogenesis in adult mouse antral follicles. <i>Toxicology and Applied Pharmacology</i> , 2016, 293, 53-62.	2.8	28
45	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. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2011, 1809, 549-556.	1.9	27
46	Compensatory induction of Fads1 gene expression in heterozygous Fads2-null mice and by diet with a high n-6/n-3 PUFA ratio. <i>Journal of Lipid Research</i> , 2016, 57, 1995-2004.	4.2	27
47	High-fat diet caused widespread epigenomic differences on hepatic methylome in rat. <i>Physiological Genomics</i> , 2015, 47, 514-523.	2.3	26
48	Developmental regulation of a turkey intestinal peptide transporter (PepT1). <i>Poultry Science</i> , 2005, 84, 75-82.	3.4	23
49	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. <i>Journal of Dairy Science</i> , 2019, 102, 8305-8318.	3.4	23
50	Postnatal diet remodels hepatic DNA methylation in metabolic pathways established by a maternal high-fat diet. <i>Epigenomics</i> , 2017, 9, 1387-1402.	2.1	22
51	A gestational low-protein diet represses p21 ^{WAF1/Cip1} expression in the mammary gland of offspring rats through promoter histone modifications. <i>British Journal of Nutrition</i> , 2012, 108, 998-1007.	2.3	21
52	Histone modifications, not DNA methylation, cause transcriptional repression of p16 (CDKN2A) in the mammary glands of offspring of protein-restricted rats. <i>Journal of Nutritional Biochemistry</i> , 2011, 22, 567-573.	4.2	20
53	The Skeletal Muscle Wnt Pathway May Modulate Insulin Resistance and Muscle Development in a Diet-Induced Obese Rat Model. <i>Obesity</i> , 2012, 20, 1577-1584.	3.0	20
54	Isoflavones in soy flour diet have different effects on whole-genome expression patterns than purified isoflavone mix in human MCF7 breast tumors in ovariectomized athymic nude mice. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 1419-1430.	3.3	20

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55	High-fat diet modifies expression of hepatic cellular senescence gene p16(INK4a) through chromatin modifications in adult male rats. <i>Genes and Nutrition</i> , 2018, 13, 6.	2.5	20
56	Mass spectrometric quantification of asparagine synthetase in circulating leukemia cells from acute lymphoblastic leukemia patients. <i>Journal of Proteomics</i> , 2008, 71, 61-70.	2.4	18
57	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. <i>British Journal of Nutrition</i> , 2015, 114, 519-532.	2.3	17
58	Characterization and Regulation of a Cloned Ovine Gastrointestinal Peptide Transporter (oPepT1) Expressed in a Mammalian Cell Line. <i>Journal of Nutrition</i> , 2002, 132, 38-42.	2.9	15
59	Poly(A)+ RNA from sheep omasal epithelium induces expression of a peptide transport protein(s) in <i>Xenopus laevis</i> oocytes.. <i>Journal of Animal Science</i> , 1997, 75, 3323.	0.5	14
60	Perinatal High-Fat Diet and Bisphenol A: Effects on Behavior and Gene Expression in the Medial Prefrontal Cortex. <i>Developmental Neuroscience</i> , 2019, 41, 1-16.	2.0	14
61	Epigenetic Regulation of Centromere Chromatin Stability by Dietary and Environmental Factors. <i>Advances in Nutrition</i> , 2017, 8, 889-904.	6.4	13
62	Computational methods to identify bimodal gene expression and facilitate personalized treatment in cancer patients. <i>Journal of Biomedical Informatics: X</i> , 2019, 100, 100001.	4.2	13
63	Early-life Programming of Type 2 Diabetes Mellitus: Understanding the Association between Epigenetics/Genetics and Environmental Factors. <i>Current Genomics</i> , 2019, 20, 453-463.	1.6	12
64	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. <i>Journal of Nutrition</i> , 2002, 132, 382-386.	2.9	10
65	Maternal and Post-weaning High-Fat Diets Produce Distinct DNA Methylation Patterns in Hepatic Metabolic Pathways within Specific Genomic Contexts. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3229.	4.1	10
66	Hepatic Cystathionine β -Synthase Activity Is Increased by Greater Postruminal Supply of Met during the Periparturient Period in Dairy Cows. <i>Current Developments in Nutrition</i> , 2019, 3, nzz128.	0.3	9
67	Tissue-specific changes in Srebf1 and Srebf2 expression and DNA methylation with perinatal phthalate exposure. <i>Environmental Epigenetics</i> , 2019, 5, dvz009.	1.8	8
68	Maternal Low-Fat Diet Programs the Hepatic Epigenome despite Exposure to an Obesogenic Postnatal Diet. <i>Nutrients</i> , 2019, 11, 2075.	4.1	8
69	Perinatal phthalate and high-fat diet exposure induce sex-specific changes in adipocyte size and DNA methylation. <i>Journal of Nutritional Biochemistry</i> , 2019, 65, 15-25.	4.2	8
70	Effects of obesity and exercise on colon cancer induction and hematopoiesis in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E210-E220.	3.5	7
71	Dickkopf homolog 1, a Wnt signaling antagonist, is transcriptionally up-regulated via an ATF4-independent and MAPK/ERK-dependent pathway following amino acid deprivation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2011, 1809, 306-315.	1.9	6
72	Considerations for feature selection using gene pairs and applications in large-scale dataset integration, novel oncogene discovery, and interpretable cancer screening. <i>BMC Medical Genomics</i> , 2020, 13, 148.	1.5	6

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73	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
74	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
75	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
76	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
77	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
78	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
79	Gestational High Fat Diet Programs Hepatic Gluconeogenic Gene Expression And Histone Modification In Offspring Rats. FASEB Journal, 2011, 25, 351.5.	0.5	1
80	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
81	Epigenetic Mechanisms of Colon Cancer Prevention: What Can Nutrition Do?. , 2014, , 401-426.		0
82	Maternal Protein and Fat Intake: Epigenetic Consequences on Fetal Development. Oxidative Stress and Disease, 2014, , 87-110.	0.3	0
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	Epigenetic Modifications Cause Transcriptional Repression of p21 Gene in Mammary Gland in the Offspring of Protein-Restricted Rats. FASEB Journal, 2010, 24, 344.5.	0.5	0
88	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
89	Obese rat pregnancy impaired fetal development independent of diet and involved the placental WNT pathway. FASEB Journal, 2010, 24, 212.3.	0.5	0
90	ATF3 Induction by Genistein is MAPK/ERK and ATF4-independent in Human Cancer Cell DLD-1. FASEB Journal, 2011, 25, 916.4.	0.5	0

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91	Maternal high fat diet induces Dickkopf1 (Dkk1) mRNA in male offspring liver. FASEB Journal, 2011, 25, 351.4.	0.5	0
92	Genistein Affects Dickkopf1-related Protein 1 (DKK1) Expression Level through Histone Modification in SW480 Human Colon Cancer Cell Line. FASEB Journal, 2011, 25, .	0.5	0
93	Decreased Phosphorylation of Histone H3 serine 10 by Genistein is Associated with the Transcriptional Upregulation of ATF3 in DLD1 Colon Cancer Cells. FASEB Journal, 2012, 26, 969.6.	0.5	0
94	Maternal high fat diet programs gene expression of adipogenic transcription factors through regulating histone modifiers in a gender-dependent manner. FASEB Journal, 2013, 27, 837.3.	0.5	0
95	High Fat Diet Induced Genome-wide Differential Methylation Affecting Hepatic Signaling Pathways In Rat. FASEB Journal, 2013, 27, 981.6.	0.5	0
96	Low protein diet during gestation and lactation induces autophagy-related gene LC3 in the liver of rat dams (737.5). FASEB Journal, 2014, 28, 737.5.	0.5	0
97	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 High-fat Diet. FASEB Journal, 2015, 29, 889.2.	0.5	0
98	Maternal High Fat Diet-induced Il12b Overexpression in Male Offspring rats is Associated with DNA Hypomethylation. FASEB Journal, 2015, 29, 728.40.	0.5	0
99	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
100	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
101	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
102	Hepatic Autophagy Gene Expression Is Induced by Post-Weaning Diets in Sprague-Dawley Rats fed with A Low-Protein Diet During Lactation. FASEB Journal, 2018, 32, 648.23.	0.5	0
103	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
104	Single-Cell RNA-Seq Profiling Identifies L1 Cell Adhesion Molecule (<i>L1cam</i>) as a Mediator in Colonic Tuft Cells -Innate Lymphoid Cell (ILCs) Signaling in the <i>Hnrnp I</i> Knockout Mice. FASEB Journal, 2022, 36, .	0.5	0
105	Single-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