

Yuan-Xiang Pan

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

2,657
citations

32
h-index

49
g-index

106
ext. papers

2,971
ext. citations

3.9
avg, IF

5.21
L-index

#	Paper	IF	Citations
100	Nutritional control of gene expression: how mammalian cells respond to amino acid limitation. <i>Annual Review of Nutrition</i> , 2005 , 25, 59-85	9.9	215
99	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, 50829-39	5.4	150
98	Gestational low protein diet in the rat mediates Igf2 gene expression in male offspring via altered hepatic DNA methylation. <i>Epigenetics</i> , 2010 , 5, 619-26	5.7	108
97	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, 2621-34	9.2	107
96	Gestational high fat diet programs hepatic phosphoenolpyruvate carboxykinase gene expression and histone modification in neonatal offspring rats. <i>Journal of Physiology</i> , 2011 , 589, 2707-17	3.9	105
95	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, 101-12	4.6	97
94	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, 38402-12	5.4	86
93	Dietary protein level and stage of development affect expression of an intestinal peptide transporter (cPepT1) in chickens. <i>Journal of Nutrition</i> , 2005 , 135, 193-8	4.1	73
92	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	3.8	68
91	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, 517-27	3.8	65
90	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, 274-9	3	64
89	Molecular cloning and functional expression of a chicken intestinal peptide transporter (cPepT1) in <i>Xenopus</i> oocytes and Chinese hamster ovary cells. <i>Journal of Nutrition</i> , 2002 , 132, 387-93	4.1	61
88	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, 34609-16	5.4	58
87	Human CCAAT/enhancer-binding protein beta 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, 27948-56	5.4	56
86	Molecular Mechanisms Underlying the Link between Diet and DNA Methylation. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	55
85	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, 161-70	5.7	54
84	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	10	53

83	MEK signaling is required for phosphorylation of eIF2alpha following amino acid limitation of HepG2 human hepatoma cells. <i>Journal of Biological Chemistry</i> , 2008 , 283, 10848-57	5.4	50
82	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, 1254-9	4.1	44
81	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	3.8	43
80	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, 1264-70	4.1	43
79	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	3.9	42
78	Deprivation of protein or amino acid induces C/EBPbeta 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, 473-84	3.8	42
77	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, 1208-20	6.3	38
76	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	6.3	37
75	Genistein exposure during the early postnatal period favors the development of obesity in female, but not male rats. <i>Toxicological Sciences</i> , 2014 , 138, 161-74	4.4	36
74	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, 1064-71	6.3	36
73	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, G558-64	5.1	36
72	An inhibitor of human asparagine synthetase suppresses proliferation of an L-asparaginase-resistant leukemia cell line. <i>Chemistry and Biology</i> , 2006 , 13, 1339-47		35
71	Functional characterization of a cloned pig intestinal peptide transporter (pPepT1). <i>Journal of Animal Science</i> , 2005 , 83, 172-81	0.7	34
70	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, 433-40	6.3	32
69	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, 2116-20	4.1	32
68	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, 170-6	6.3	31
67	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	4.8	29
66	Amino-acid limitation induces transcription from the human C/EBPbeta gene via an enhancer activity located downstream of the protein coding sequence. <i>Biochemical Journal</i> , 2005 , 391, 649-58	3.8	27

65	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, 183-90	5.7	25
64	High-fat diet caused widespread epigenomic differences on hepatic methylome in rat. <i>Physiological Genomics</i> , 2015 , 47, 514-23	3.6	24
63	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, 549-56	6	22
62	Developmental regulation of a turkey intestinal peptide transporter (PepT1). <i>Poultry Science</i> , 2005 , 84, 75-82	3.9	22
61	In utero oxidative stress epigenetically programs antioxidant defense capacity and adulthood diseases. <i>Antioxidants and Redox Signaling</i> , 2012 , 17, 237-53	8.4	21
60	Epigenetic regulation of carnitine palmitoyltransferase 1 (Cpt1a) by high fat diet. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2019 , 1862, 141-152	6	21
59	Epigenetic Regulation of Metabolism and Inflammation by Calorie Restriction. <i>Advances in Nutrition</i> , 2019 , 10, 520-536	10	20
58	Methods and novel technology for microRNA quantification in colorectal cancer screening. <i>Clinical Epigenetics</i> , 2017 , 9, 119	7.7	20
57	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,	6.6	20
56	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, 567-73	6.3	20
55	Genistein exposure inhibits growth and alters steroidogenesis in adult mouse antral follicles. <i>Toxicology and Applied Pharmacology</i> , 2016 , 293, 53-62	4.6	19
54	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	4.1	19
53	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	4.1	18
52	Isoflavones in soy flour diet have different effects on whole-genome expression patterns than purified isoflavone mix in human MCF-7 breast tumors in ovariectomized athymic nude mice. <i>Molecular Nutrition and Food Research</i> , 2015 , 59, 1419-30	5.9	18
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	3.6	18
50	Postnatal diet remodels hepatic DNA methylation in metabolic pathways established by a maternal high-fat diet. <i>Epigenomics</i> , 2017 , 9, 1387-1402	4.4	17
49	The skeletal muscle Wnt pathway may modulate insulin resistance and muscle development in a diet-induced obese rat model. <i>Obesity</i> , 2012 , 20, 1577-84	8	17
48	Mass spectrometric quantification of asparagine synthetase in circulating leukemia cells from acute lymphoblastic leukemia patients. <i>Journal of Proteomics</i> , 2008 , 71, 61-70	3.9	17

47	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	6.3	14
46	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	4.1	14
45	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, 519-32	3.6	12
44	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, 3323-30	0.7	12
43	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	4.3	11
42	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, 382-6	4.1	10
41	Epigenetic Regulation of Centromere Chromatin Stability by Dietary and Environmental Factors. <i>Advances in Nutrition</i> , 2017 , 8, 889-904	10	9
40	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	2.2	9
39	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	4	8
38	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,	6.3	7
37	Maternal Low-Fat Diet Programs the Hepatic Epigenome despite Exposure to an Obesogenic Postnatal Diet. <i>Nutrients</i> , 2019 , 11,	6.7	6
36	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, 306-15	6	6
35	Computational methods to identify bimodal gene expression and facilitate personalized treatment in cancer patients. <i>Journal of Biomedical Informatics: X</i> , 2019 , 100S, 100001	3.9	6
34	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	2.6	5
33	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	6	5
32	Role of glucocorticoid signaling in exercise-associated changes in high-fat diet preference in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 318, R515-R528 ²	3.2	4
31	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	3.7	4
30	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	6.3	4

29	Tissue-specific changes in and expression and DNA methylation with perinatal phthalate exposure. <i>Environmental Epigenetics</i> , 2019 , 5, dvz009	2.4	3
28	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	0.4	3
27	High Fat Diet Induces Expression of Cell Cycle Control Gene p16 In the Liver of Obesity Prone Rats Through Epigenetic Modifications. <i>FASEB Journal</i> , 2010 , 24, 212.4	0.9	1
26	Gestational High Fat Diet Programs Hepatic Gluconeogenic Gene Expression And Histone Modification In Offspring Rats. <i>FASEB Journal</i> , 2011 , 25, 351.5	0.9	1
25	A Low Protein Diet during Gestation and Lactation Increases Hepatic Lipid Accumulation through Autophagy and Histone Deacetylase. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 ,	6	1
24	Caloric restriction following early-life high fat-diet feeding represses skeletal muscle TNF in male rats. <i>Journal of Nutritional Biochemistry</i> , 2021 , 91, 108598	6.3	1
23	Maternal high-fat diet activates hepatic interleukin-4 in rat male offspring accompanied by increased eosinophil infiltration. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 320, G81-G92	5.1	1
22	A maternal low-protein diet during gestation induces hepatic autophagy-related gene expression in a sex-specific manner in Sprague-Dawley rats. <i>British Journal of Nutrition</i> , 2021 , 1-12	3.6	0
21	Maternal Protein and Fat Intake: Epigenetic Consequences on Fetal Development. <i>Oxidative Stress and Disease</i> , 2014 , 87-110		
20	Epigenetic Mechanisms of Colon Cancer Prevention: What Can Nutrition Do? 2014 , 401-426		
19	Oral Intake of Genistein Changes DNA Methylation at the Promoters of Rat Colon Genes. <i>FASEB Journal</i> , 2008 , 22, 885.6	0.9	
18	MEK signaling is required for phosphorylation of eIF2 α following amino acid limitation of HepG2 human hepatoma cells. <i>FASEB Journal</i> , 2008 , 22, 691.16	0.9	
17	Influence of dietary availability of protein and carbohydrate on ERK1/2 and Akt signaling in rat liver. <i>FASEB Journal</i> , 2008 , 22, 294.2	0.9	
16	Maternal Protein and Folate Intake Affects Gene Expression and DNA Methylation in Rat Placenta. <i>FASEB Journal</i> , 2008 , 22, 727-727	0.9	
15	Epigenetic Regulations of Genes Related to Lipid Metabolism by MicroRNA in Mice Fed High Fat Diet. <i>FASEB Journal</i> , 2018 , 32, 648.20	0.9	
14	Hepatic Autophagy Gene Expression Is Induced by Post-Weaning Diets in Sprague-Dawley Rats fed with A Low-Protein Diet During Lactation. <i>FASEB Journal</i> , 2018 , 32, 648.23	0.9	
13	High Fat Diet Blunts the Activation of Canonical Wnt Signaling Pathway Induced by Radiation Therapy in Mouse Colon Epithelia. <i>FASEB Journal</i> , 2018 , 32, 648.19	0.9	
12	Epigenetic Modification of the Cpt1 α Gene at Birth by Developmental Bisphenol A (BPA) Exposure May Program Microvesicular Steatosis in Adult Male Rats Consuming a High-fat Diet. <i>FASEB Journal</i> , 2015 , 29, 889.2	0.9	

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| 11 | Maternal High Fat Diet-induced Il-12b Overexpression in Male Offspring rats is Associated with DNA Hypomethylation. <i>FASEB Journal</i> , 2015 , 29, 728.40 | 0.9 |
| 10 | Amino Acid Deprivation Increases Lipid Accumulation in HepG2 Hepatoma Cells through Repression of Histone Deacetylase 3 (HDAC3). <i>FASEB Journal</i> , 2015 , 29, 715.40 | 0.9 |
| 9 | Epigenetic Modifications Cause Transcriptional Repression of p21 Gene in Mammary Gland in the Offspring of Protein-Restricted Rats. <i>FASEB Journal</i> , 2010 , 24, 344.5 | 0.9 |
| 8 | Maternal Low Protein Diet Induces Amino Acid Response (AAR) Pathway in the Liver of Dam Rat. <i>FASEB Journal</i> , 2010 , 24, 212.5 | 0.9 |
| 7 | Obese rat pregnancy impaired fetal development independent of diet and involved the placental WNT pathway. <i>FASEB Journal</i> , 2010 , 24, 212.3 | 0.9 |
| 6 | ATF3 Induction by Genistein is MAPK/ERK- and ATF4- independent in Human Cancer Cell DLD-1. <i>FASEB Journal</i> , 2011 , 25, 916.4 | 0.9 |
| 5 | Maternal high fat diet induces Dickkopf-1(Dkk1) mRNA in male offspring liver. <i>FASEB Journal</i> , 2011 , 25, 351.4 | 0.9 |
| 4 | Decreased Phosphorylation of Histone H3 serine 10 by Genistein is Associated with the Transcriptional Upregulation of ATF3 in DLD-1 Colon Cancer Cells. <i>FASEB Journal</i> , 2012 , 26, 969.6 | 0.9 |
| 3 | Maternal high fat diet programs gene expression of adipogenic transcription factors through regulating histone modifiers in a gender-dependent manner. <i>FASEB Journal</i> , 2013 , 27, 837.3 | 0.9 |
| 2 | High Fat Diet Induced Genome-wide Differential Methylation Affecting Hepatic Signaling Pathways In Rat. <i>FASEB Journal</i> , 2013 , 27, 981.6 | 0.9 |
| 1 | Low protein diet during gestation and lactation induces autophagy-related gene LC3 in the liver of rat dams (737.5). <i>FASEB Journal</i> , 2014 , 28, 737.5 | 0.9 |