Xi-Rong Guo

List of Publications by Year
in descending order

114 papers	4,005 citations	159585 30 h-index	144013 57 g-index
115 all docs	115 docs citations	115 times ranked	6514 citing authors

#	Article	IF	Citations
1	Pre-Pregnancy Body Mass Index in Relation to Infant Birth Weight and Offspring Overweight/Obesity: A Systematic Review and Meta-Analysis. PLoS ONE, 2013, 8, e61627.	2.5	629
2	The clinical potential of circulating microRNAs in obesity. Nature Reviews Endocrinology, 2019, 15, 731-743.	9.6	175
3	Resveratrol-loaded polymeric micelles protect cells from Aî²-induced oxidative stress. International Journal of Pharmaceutics, 2009, 375, 89-96.	5.2	173
4	Mitochondrial dysfunction is induced by high levels of glucose and free fatty acids in 3T3-L1 adipocytes. Molecular and Cellular Endocrinology, 2010, 320, 25-33.	3.2	158
5	miR-148a is Associated with Obesity and Modulates Adipocyte Differentiation of Mesenchymal Stem Cells through Wnt Signaling. Scientific Reports, 2015, 5, 9930.	3.3	145
6	Differential Expression of MicroRNAs in Omental Adipose Tissue From Gestational Diabetes Mellitus Subjects Reveals miR-222 as a Regulator of ERÎ± Expression in Estrogen-Induced Insulin Resistance. Endocrinology, 2014, 155, 1982-1990.	2.8	126
7	Trends in Overweight and Obesity among Children and Adolescents in China from 1981 to 2010: A Meta-Analysis. PLoS ONE, 2012, 7, e51949.	2.5	120
8	Change in circulating microRNA profile of obese children indicates future risk of adult diabetes. Metabolism: Clinical and Experimental, 2018, 78, 95-105.	3.4	103
9	Adipogenic miRNA and meta-signature miRNAs involved in human adipocyte differentiation and obesity. Oncotarget, 2016, 7, 40830-40845.	1.8	89
10	Genetic Polymorphisms in Adipokine Genes and the Risk of Obesity: A Systematic Review and Metaâ€Analysis. Obesity, 2012, 20, 396-406.	3.0	88
11	MiR-146b is a regulator of human visceral preadipocyte proliferation and differentiation and its expression is altered in human obesity. Molecular and Cellular Endocrinology, 2014, 393, 65-74.	3.2	84
12	The role of microRNA-26b in human adipocyte differentiation and proliferation. Gene, 2014, 533, 481-487.	2.2	83
13	IL-6 induces lipolysis and mitochondrial dysfunction, but does not affect insulin-mediated glucose transport in 3T3-L1 adipocytes. Journal of Bioenergetics and Biomembranes, 2011, 43, 367-375.	2.3	79
14	IL-6 and TNF-Î± Induced Obesity-Related Inflammatory Response Through Transcriptional Regulation of miR-146b. Journal of Interferon and Cytokine Research, 2014, 34, 342-348.	1.2	75
15	Over-expression of NYGGF4 inhibits glucose transport in 3T3-L1 adipocytes via attenuated phosphorylation of IRS-1 and Akt. Acta Pharmacologica Sinica, 2009, 30, 120-124.	6.1	52
16	A transcribed ultraconserved noncoding RNA, uc.417, serves as a negative regulator of brown adipose tissue thermogenesis. FASEB Journal, 2016, 30, 4301-4312.	0.5	50
17	TNF-Î±, IL-6, and Leptin Increase the Expression of miR-378, an Adipogenesis-Related microRNA in Human Adipocytes. Cell Biochemistry and Biophysics, 2014, 70, 771-776.	1.8	48
18	Downregulation of STEAP4, a highly-expressed TNF-Î±-inducible gene in adipose tissue, is associated with obesity in humans. Acta Pharmacologica Sinica, 2008, 29, 587-592.	6.1	46

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19	Identification and characterization of NYGGF4, a novel gene containing a phosphotyrosine-binding (PTB) domain that stimulates 3T3-L1 preadipocytes proliferation. Gene, 2006, 379, 132-140.	2.2	44
20	Vascular Dysfunction Associated with Type 2 Diabetes and Alzheimerâ€™s Disease: A Potential Etiological Linkage. Medical Science Monitor Basic Research, 2014, 20, 118-129.	2.6	44
21	The effect of maternal vitamin D deficiency during pregnancy on body fat and adipogenesis in rat offspring. Scientific Reports, 2018, 8, 365.	3.3	40
22	miR-199a-3p regulates brown adipocyte differentiation through mTOR signaling pathway. Molecular and Cellular Endocrinology, 2018, 476, 155-164.	3.2	37
23	Identification of differentially expressed genes in omental adipose tissues of obese patients by suppression subtractive hybridization. Biochemical and Biophysical Research Communications, 2007, 352, 469-478.	2.1	35
24	Prolonged exposure to resistin inhibits glucose uptake in rat skeletal muscles. Acta Pharmacologica Sinica, 2007, 28, 410-416.	6.1	35
25	GM13133 is a negative regulator in mouse white adipocytes differentiation and drives the characteristics of brown adipocytes. Journal of Cellular Physiology, 2018, 233, 313-324.	4.1	35
26	Menin regulates spinal glutamate-GABA balance through GAD65 contributing to neuropathic pain. Pharmacological Reports, 2014, 66, 49-55.	3.3	33
27	Expression of miR-199a-3p in human adipocytes is regulated by free fatty acids and adipokines. Molecular Medicine Reports, 2016, 14, 1180-1186.	2.4	33
28	Distinct expression profiles of LncRNAs between brown adipose tissue and skeletal muscle. Biochemical and Biophysical Research Communications, 2014, 443, 1028-1034.	2.1	32
29	Overexpression of uncoupling protein 4 promotes proliferation and inhibits apoptosis and differentiation of preadipocytes. Life Sciences, 2006, 79, 1428-1435.	4.3	31
30	Modulation of hsa-miR-26b levels following adipokine stimulation. Molecular Biology Reports, 2013, 40, 3577-3582.	2.3	31
31	Differential lncRNA expression profiles in brown and white adipose tissues. Molecular Genetics and Genomics, 2015, 290, 699-707.	2.1	31
32	Congenital heart disease in a Chinese hospital: preâ€•and postnatal detection, incidence, clinical characteristics and outcomes. Pediatrics International, 2011, 53, 1059-1065.	0.5	30
33	miR-1275 inhibits adipogenesis via ELK1 and its expression decreases in obese subjects. Journal of Molecular Endocrinology, 2016, 57, 33-43.	2.5	30
34	STEAP4, a gene associated with insulin sensitivity, is regulated by several adipokines in human adipocytes. International Journal of Molecular Medicine, 2010, 25, 361-7.	4.0	29
35	Differential DNA Methylation Status Between Human Preadipocytes and Mature Adipocytes. Cell Biochemistry and Biophysics, 2012, 63, 1-15.	1.8	29
36	A Novel pro-adipogenesis factor abundant in adipose tissues and over-expressed in obesity acts upstream of PPARÎ³ and C/EBPÎ±. Journal of Bioenergetics and Biomembranes, 2013, 45, 219-228.	2.3	28

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37	FFAs and adipokine-mediated regulation of hsa-miR-143 expression in human adipocytes. Molecular Biology Reports, 2013, 40, 5669-5675.	2.3	26
38	Peptidome analysis of human skim milk in term and preterm milk. Biochemical and Biophysical Research Communications, 2013, 438, 236-241.	2.1	26
39	The long non-coding RNA Gm10768 activates hepatic gluconeogenesis by sequestering microRNA-214 in mice. Journal of Biological Chemistry, 2018, 293, 4097-4109.	3.4	26
40	PCB 1254 exposure contributes to the abnormalities of optomotor responses and influence of the photoreceptor cell development in zebrafish larvae. Ecotoxicology and Environmental Safety, 2015, 118, 133-138.	6.0	24
41	The biological effects of hsa-miR-1908 in human adipocytes. Molecular Biology Reports, 2015, 42, 927-935.	2.3	24
42	Expression of microRNA-26b, an obesity-related microRNA, is regulated by free fatty acids, glucose, dexamethasone and growth hormone in human adipocytes. Molecular Medicine Reports, 2014, 10, 223-228.	2.4	23
43	High folate intake contributes to the risk of large for gestational age birth and obesity in male offspring. Journal of Cellular Physiology, 2018, 233, 9383-9389.	4.1	23
44	Resistin induces insulin resistance, but does not affect glucose output in rat-derived hepatocytes. Acta Pharmacologica Sinica, 2008, 29, 98-104.	6.1	22
45	Knockdown of NYGGF4 increases glucose transport in C2C12 mice skeletal myocytes by activation IRS-1/PI3K/AKT insulin pathway. Journal of Bioenergetics and Biomembranes, 2012, 44, 351-355.	2.3	22
46	Association of maternal serum 25-hydroxyvitamin D concentrations with risk of preeclampsia: a nested case-control study and meta-analysis. Journal of Maternal-Fetal and Neonatal Medicine, 2021, 34, 1576-1585.	1.5	22
47	Monoclonal antibody to the six-transmembrane epithelial antigen of prostate 4 promotes apoptosis and inhibits proliferation and glucose uptake in human adipocytes. International Journal of Molecular Medicine, 2010, 26, 803-11.	4.0	21
48	Overexpression of NYGGF4 (PID1) induces mitochondrial impairment in 3T3-L1 adipocytes. Molecular and Cellular Biochemistry, 2010, 340, 41-48.	3.1	21
49	Gene expression profiles in the prefrontal cortex of SHR rats by cDNA microarrays. Molecular Biology Reports, 2010, 37, 1733-1740.	2.3	21
50	LYRM1, a novel gene promotes proliferation and inhibits apoptosis of preadipocytes. European Journal of Endocrinology, 2009, 160, 177-184.	3.7	20
51	The role of Homer 1a in increasing locomotor activity and non-selective attention, and impairing learning and memory abilities. Brain Research, 2013, 1515, 39-47.	2.2	20
52	Association of maternal folate status in the second trimester of pregnancy with the risk of gestational diabetes mellitus. Food Science and Nutrition, 2019, 7, 3759-3765.	3.4	20
53	Genetic variants in vitamin D signaling pathways and risk of gestational diabetes mellitus. Oncotarget, 2016, 7, 67788-67795.	1.8	20
54	Gene expression profiles of adipose tissue of high-fat diet-induced obese rats by cDNA microarrays. Molecular Biology Reports, 2010, 37, 3691-3695.	2.3	19

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55	Expression profile of plasma microRNAs in nonsyndromic cleft lip and their clinical significance as biomarkers. Biomedicine and Pharmacotherapy, 2016, 82, 459-466.	5.6	19
56	Ageâ€induced oxidative stress impairs adipogenesis and thermogenesis in brown fat. FEBS Journal, 2019, 286, 2753-2768.	4.7	19
57	Evaluation and optimization of differentiation conditions for human primary brown adipocytes. Scientific Reports, 2018, 8, 5304.	3.3	18
58	NYGGF4Âhomologous gene expression in 3T3-L1 adipocytes: regulation by FFA and adipokines. Molecular Biology Reports, 2010, 37, 3291-3296.	2.3	17
59	Overexpression of LYRM1 induces mitochondrial impairment in 3T3-L1 adipocytes. Molecular Genetics and Metabolism, 2010, 101, 395-399.	1.1	17
60	Increased Locomotor Activity and Non-Selective Attention and Impaired Learning Ability in SD Rats after Lentiviral Vector-Mediated RNA Interference of Homer 1a in the Brain. International Journal of Medical Sciences, 2013, 10, 90-102.	2.5	17
61	Expression of obesity-related miR-1908 in human adipocytes is regulated by adipokines, free fatty acids and hormones. Molecular Medicine Reports, 2014, 10, 1164-1169.	2.4	17
62	Analysis of transcription factor Stk40 expression and function during mouse pre-implantation embryonic development. Molecular Medicine Reports, 2014, 9, 535-540.	2.4	17
63	Distinct lncRNA expression profiles in the prefrontal cortex of SD rats after exposure to methylphenidate. Biomedicine and Pharmacotherapy, 2015, 70, 239-247.	5.6	17
64	Profiling Analysis Reveals the Potential Contribution of Peptides to Human Adipocyte Differentiation. Proteomics - Clinical Applications, 2018, 12, e1700172.	1.6	17
65	Resistin induces rat insulinoma cell RINm5F apoptosis. Molecular Biology Reports, 2009, 36, 1703-1708.	2.3	16
66	Monoclonal antibody to six transmembrane epithelial antigen of prostate-4 influences insulin sensitivity by attenuating phosphorylation of P13K (P85) and Akt: Possible mitochondrial mechanism. Journal of Bioenergetics and Biomembranes, 2011, 43, 247-255.	2.3	16
67	Identification and characterization of metformin on peptidomic profiling in human visceral adipocytes. Journal of Cellular Biochemistry, 2018, 119, 1866-1878.	2.6	16
68	A novel peptide suppresses adipogenic differentiation through activation of the AMPK pathway. Biochemical and Biophysical Research Communications, 2019, 510, 395-402.	2.1	16
69	Liposome-encapsulated peptide PDBSN ameliorates high-fat-diet-induced obesity and improves metabolism homeostasis. Biochemical and Biophysical Research Communications, 2020, 533, 181-187.	2.1	16
70	Effects of NYGGF4 knockdown on insulin sensitivity and mitochondrial function in 3T3-L1 adipocytes. Journal of Bioenergetics and Biomembranes, 2010, 42, 433-439.	2.3	15
71	Knockdown of STEAP4 inhibits insulin-stimulated glucose transport and GLUT4 translocation via attenuated phosphorylation of Akt, independent of the effects of EEA1. Molecular Medicine Reports, 2011, 4, 519-23.	2.4	15
72	Over-expression of LYRM1 inhibits glucose transport in rat skeletal muscles via attenuated phosphorylation of PI3K (p85) and Akt. Molecular and Cellular Biochemistry, 2011, 348, 149-154.	3.1	15

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73	Overexpression of PGC-1Î² improves insulin sensitivity and mitochondrial function in 3T3-L1 adipocytes. Molecular and Cellular Biochemistry, 2011, 353, 215-223.	3.1	15
74	Î±-Lipoic acid ameliorates impaired glucose uptake in LYRM1 overexpressing 3T3-L1 adipocytes through the IRS-1/Akt signaling pathway. Journal of Bioenergetics and Biomembranes, 2012, 44, 579-586.	2.3	14
75	Metformin prevents LYRM1-induced insulin resistance in 3T3-L1 adipocytes via a mitochondrial-dependent mechanism. Experimental Biology and Medicine, 2014, 239, 1567-1574.	2.4	14
76	Obesity-associated microRNA-26b regulates the proliferation of human preadipocytes via arrest of the G1/S transition. Molecular Medicine Reports, 2015, 12, 3648-3654.	2.4	14
77	Investigation into the antimicrobial action and mechanism of a novel endogenous peptide Î²-casein 197 from human milk. AMB Express, 2017, 7, 119.	3.0	14
78	Association of maternal serum 25-hydroxyvitamin D concentrations in second and third trimester with risk of macrosomia. Scientific Reports, 2018, 8, 6169.	3.3	14
79	Association of rs10830962 polymorphism with gestational diabetes mellitus risk in a Chinese population. Scientific Reports, 2019, 9, 5357.	3.3	14
80	Genetic variants in PTPRD and risk of gestational diabetes mellitus. Oncotarget, 2016, 7, 76101-76107.	1.8	14
81	Caenorhabditis elegans ucp-4 regulates fat metabolism: Suppression of ucp-4 expression induced obese phenotype and caused impairment of insulin like pathway. Gene, 2012, 491, 158-164.	2.2	13
82	A paradox: Insulin inhibits expression and secretion of resistin which induces insulin resistance. World Journal of Gastroenterology, 2008, 14, 95.	3.3	13
83	Tissue-specific distribution of uncoupling proteins in normal rats and rats with high-fat-diet-induced obesity. Molecular Biology Reports, 2010, 37, 3177-3182.	2.3	12
84	Measurement of Fetal Abdominal and Subscapular Subcutaneous Tissue Thickness during Pregnancy to Predict Macrosomia: A Pilot Study. PLoS ONE, 2014, 9, e93077.	2.5	12
85	Î±-Lipoic acid protects 3T3-L1 adipocytes from NYGGF4 (PID1) overexpression-induced insulin resistance through increasing phosphorylation of IRS-1 and Akt. Journal of Bioenergetics and Biomembranes, 2012, 44, 357-363.	2.3	11
86	Characterization of microRNA expression profiles in 3T3-L1 adipocytes overexpressing C10orf116. Molecular Biology Reports, 2013, 40, 6469-6476.	2.3	11
87	Quantitative Proteomics Analysis of Altered Protein Expression in the Placental Villous Tissue of Early Pregnancy Loss Using Isobaric Tandem Mass Tags. BioMed Research International, 2014, 2014, 1-9.	1.9	11
88	Dopaminergic inhibition by G9a/Glp complex on tyrosine hydroxylase in nerve injury-induced hypersensitivity. Molecular Pain, 2016, 12, 174480691666373.	2.1	11
89	Association between maternal nonresponsive feeding practice and childâ€™s eating behavior and weight status: children aged 1 to 6Âyears. European Journal of Pediatrics, 2017, 176, 1603-1612.	2.7	11
90	PID1 in adipocytes modulates whole-body glucose homeostasis. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2018, 1861, 125-132.	1.9	11

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91	Identification of intracellular peptides associated with thermogenesis in human brown adipocytes. Journal of Cellular Physiology, 2019, 234, 7104-7114.	4.1	11
92	The role of microRNA-23b-5p in regulating brown adipogenesis and thermogenic program. Endocrine Connections, 2020, 9, 457-470.	1.9	11
93	Mitochondrial dysfunction is induced by the overexpression of UCP4 in 3T3-L1 adipocytes. International Journal of Molecular Medicine, 2010, 25, 71-80.	4.0	11
94	Effects of Lyrm1 knockdown on mitochondrial function in 3 T3-L1 murine adipocytes. Journal of Bioenergetics and Biomembranes, 2012, 44, 225-232.	2.3	10
95	Overexpression of TFAM Protects 3T3-L1 Adipocytes from NYGGF4 (PID1) Overexpression-Induced Insulin Resistance and Mitochondrial Dysfunction. Cell Biochemistry and Biophysics, 2013, 66, 489-497.	1.8	10
96	Genetic predisposition to gestational glucose metabolism and gestational diabetes mellitus risk in a Chinese population. Journal of Diabetes, 2019, 11, 869-877.	1.8	10
97	Dynamic transcriptome profile in db/db skeletal muscle reveal critical roles for long noncoding RNA regulator. International Journal of Biochemistry and Cell Biology, 2018, 104, 14-24.	2.8	9
98	Effects of Aberrant miR-384-5p Expression on Learning and Memory in a Rat Model of Attention Deficit Hyperactivity Disorder. Frontiers in Neurology, 2019, 10, 1414.	2.4	9
99	The role and possible mechanism of lncRNA AC092159.2 in modulating adipocyte differentiation. Journal of Molecular Endocrinology, 2019, 62, 137-148.	2.5	9
100	Knockdown of NYGGF4 (PID1) rescues insulin resistance and mitochondrial dysfunction induced by FCCP in 3T3-L1 adipocytes. Mitochondrion, 2012, 12, 600-606.	3.4	7
101	Knockdown of LYRM1 Rescues Insulin Resistance and Mitochondrial Dysfunction Induced by FCCP in 3T3-L1 Adipocytes. Cell Biochemistry and Biophysics, 2014, 70, 667-675.	1.8	6
102	Tumor necrosis factor-Î± and interleukin-6 suppress microRNA-1275 transcription in human adipocytes through nuclear factor-ÎºB. Molecular Medicine Reports, 2017, 16, 5965-5971.	2.4	6
103	Peptidomic analysis of zebrafish embryos exposed to polychlorinated biphenyls and their impact on eye development. Ecotoxicology and Environmental Safety, 2019, 175, 164-172.	6.0	6
104	A novel peptide RIFV suppresses human adipocyte differentiation through the inhibition of C/EBP-Î² expression. Nutrition and Metabolism, 2019, 16, 88.	3.0	5
105	Regulation ofLYRM1Gene Expression by Free Fatty Acids, Adipokines, and Rosiglitazone in 3T3-L1 Adipocytes. Experimental Diabetes Research, 2012, 2012, 1-6.	3.8	4
106	NYGGF4 (PID1) effects on insulin resistance are reversed by metformin in 3T3-L1 adipocytes. Journal of Bioenergetics and Biomembranes, 2012, 44, 665-671.	2.3	4
107	NYGGF4 as a new therapeutic target for obesity-associated insulin resistance. Medical Hypotheses, 2012, 78, 432-434.	1.5	4
108	Potential genetic damage to nematode offspring following exposure to triclosan during pregnancy. Molecular Medicine Reports, 2017, 16, 1321-1327.	2.4	4

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109	UCP4 overexpression improves fatty acid oxidation and insulin sensitivity in L6 myocytes. Journal of Bioenergetics and Biomembranes, 2011, 43, 109-118.	2.3	3
110	Human milk derived peptide AOPDM1 attenuates obesity by restricting adipogenic differentiation through MAPK signalling. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129836.	2.4	3
111	Short Report: Tissue-specific Expression Profiles of the Uncoupling Protein Family in Normal Control Mice and Genetically ob/ob Mice. Journal of Bioenergetics and Biomembranes, 2010, 42, 255-259.	2.3	2
112	A mutation in signal peptide of rat resistin gene inhibits differentiation of 3T3-L1 preadipocytes. Acta Pharmacologica Sinica, 2004, 25, 1705-11.	6.1	2
113	Verapamil inhibits 3T3-L1 preadipocyte differentiation. Journal of Nanjing Medical University, 2009, 23, 403-409.	0.1	0
114	Fluorometric determination of the CCAAT/enhancer binding protein alpha by using gold nanoparticles and a labeled protein-binding DNA. Mikrochimica Acta, 2020, 187, 22.	5.0	0