

# Demin Cai

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,168  
citations

430874

18  
h-index

395702

33  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1697  
citing authors

#	ARTICLE	IF	CITATIONS
1	ROR $\gamma$ 3 drives androgen receptor expression and represents a therapeutic target in castration-resistant prostate cancer. <i>Nature Medicine</i> , 2016, 22, 488-496.	30.7	155
2	Butyrate alleviates high fat diet-induced obesity through activation of adiponectin-mediated pathway and stimulation of mitochondrial function in the skeletal muscle of mice. <i>Oncotarget</i> , 2016, 7, 56071-56082.	1.8	133
3	ROR $\gamma$ 3 is a targetable master regulator of cholesterol biosynthesis in a cancer subtype. <i>Nature Communications</i> , 2019, 10, 4621.	12.8	81
4	Maternal dietary betaine supplementation modifies hepatic expression of cholesterol metabolic genes via epigenetic mechanisms in newborn piglets. <i>British Journal of Nutrition</i> , 2014, 112, 1459-1468.	2.3	70
5	Betaine Supplementation in Maternal Diet Modulates the Epigenetic Regulation of Hepatic Gluconeogenic Genes in Neonatal Piglets. <i>PLoS ONE</i> , 2014, 9, e105504.	2.5	55
6	Butyrate stimulates adipose lipolysis and mitochondrial oxidative phosphorylation through histone hyperacetylation-associated $\beta$ -adrenergic receptor activation in high-fat diet-induced obese mice. <i>Experimental Physiology</i> , 2017, 102, 273-281.	2.0	53
7	GR-mediated FTO transactivation induces lipid accumulation in hepatocytes via demethylation of m <sup>6</sup> A on lipogenic mRNAs. <i>RNA Biology</i> , 2020, 17, 930-942.	3.1	50
8	In Ovo Injection of Betaine Affects Hepatic Cholesterol Metabolism through Epigenetic Gene Regulation in Newly Hatched Chicks. <i>PLoS ONE</i> , 2015, 10, e0122643.	2.5	43
9	Hypermethylation of Sp1 Binding Site Suppresses Hypothalamic POMC in Neonates and May Contribute to Metabolic Disorders in Adults: Impact of Maternal Dietary CLAs. <i>Diabetes</i> , 2014, 63, 1475-1487.	0.6	38
10	Gestational dietary betaine supplementation suppresses hepatic expression of lipogenic genes in neonatal piglets through epigenetic and glucocorticoid receptor-dependent mechanisms. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 41-50.	2.4	37
11	Silencing the epigenetic silencer KDM4A for TRAIL and DR5 simultaneous induction and antitumor therapy. <i>Cell Death and Differentiation</i> , 2016, 23, 1886-1896.	11.2	35
12	Maternal Betaine Supplementation during Gestation Enhances Expression of mtDNA-Encoded Genes through D-Loop DNA Hypomethylation in the Skeletal Muscle of Newborn Piglets. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10152-10160.	5.2	32
13	Intravenous injection of microvesicle-delivery miR-130b alleviates high-fat diet-induced obesity in C57BL/6 mice through translational repression of PPAR $\gamma$ 3. <i>Journal of Biomedical Science</i> , 2015, 22, 86.	7.0	30
14	In ovo injection of betaine alleviates corticosterone-induced fatty liver in chickens through epigenetic modifications. <i>Scientific Reports</i> , 2017, 7, 40251.	3.3	30
15	Dietary betaine supplementation to gestational sows enhances hippocampal IGF2 expression in newborn piglets with modified DNA methylation of the differentially methylated regions. <i>European Journal of Nutrition</i> , 2015, 54, 1201-1210.	3.9	27
16	Folate deprivation induces cell cycle arrest at G0/G1 phase and apoptosis in hippocampal neuron cells through down-regulation of IGF-1 signaling pathway. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 79, 222-230.	2.8	27
17	Maternal Low-protein Diet Alters Ovarian Expression of Folliculogenic and Steroidogenic Genes and Their Regulatory MicroRNAs in Neonatal Piglets. <i>Asian-Australasian Journal of Animal Sciences</i> , 2014, 27, 1695-1704.	2.4	25
18	Maternal Betaine Supplementation throughout Gestation and Lactation Modifies Hepatic Cholesterol Metabolic Genes in Weaning Piglets via AMPK/LXR-Mediated Pathway and Histone Modification. <i>Nutrients</i> , 2016, 8, 646.	4.1	24

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19	Low-protein diet fed to crossbred sows during pregnancy and lactation enhances myostatin gene expression through epigenetic regulation in skeletal muscle of weaning piglets. <i>European Journal of Nutrition</i> , 2016, 55, 1307-1314.	3.9	18
20	Dietary Fiber in Bilberry Ameliorates Pre-Obesity Events in Rats by Regulating Lipid Depot, Cecal Short-Chain Fatty Acid Formation and Microbiota Composition. <i>Nutrients</i> , 2019, 11, 1350.	4.1	17
21	Co-optio of PPAR $\alpha$ in the regulation of lipogenesis and fatty acid oxidation in CLA $\alpha$ -induced hepatic steatosis. <i>Journal of Cellular Physiology</i> , 2021, 236, 4387-4402.	4.1	16
22	Maternal protein restriction during gestation and lactation programs offspring ovarian steroidogenesis and folliculogenesis in the prepubertal gilts. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2014, 143, 267-276.	2.5	15
23	Maternal gestational betaine supplementation-mediated suppression of hepatic cyclin D2 and presenilin1 gene in newborn piglets is associated with epigenetic regulation of the STAT3-dependent pathway. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 1622-1631.	4.2	15
24	Maternal betaine supplementation decreases hepatic cholesterol deposition in chicken offspring with epigenetic modulation of SREBP2 and CYP7A1 genes. <i>Poultry Science</i> , 2020, 99, 3111-3120.	3.4	14
25	Epithelial Heat Shock Proteins Mediate the Protective Effects of <i>Limosilactobacillus reuteri</i> in Dextran Sulfate Sodium-Induced Colitis. <i>Frontiers in Immunology</i> , 2022, 13, 865982.	4.8	13
26	Epigenetic and SP1-mediated regulation is involved in the repression of galactokinase 1 gene in the liver of neonatal piglets born to betaine-supplemented sows. <i>European Journal of Nutrition</i> , 2017, 56, 1899-1909.	3.9	12
27	Time-restricted feeding downregulates cholesterol biosynthesis program via ROR $\gamma$ -mediated chromatin modification in porcine liver organoids. <i>Journal of Animal Science and Biotechnology</i> , 2020, 11, 106.	5.3	12
28	A master regulator of cholesterol biosynthesis constitutes a therapeutic liability of triple negative breast cancer. <i>Molecular and Cellular Oncology</i> , 2020, 7, 1701362.	0.7	11
29	Orphan Nuclear Receptor ROR $\gamma$ Modulates the Genome-Wide Binding of the Cholesterol Metabolic Genes during Mycotoxin-Induced Liver Injury. <i>Nutrients</i> , 2021, 13, 2539.	4.1	10
30	Conjugated linoleic acid supplementation caused reduction of perilipin1 and aberrant lipolysis in epididymal adipose tissue. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 621-626.	2.1	9
31	The Circadian Physiology: Implications in Livestock Health. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2111.	4.1	8
32	Aberrant Cholesterol Metabolic Genes Regulation in a Negative Feedback Loop Induced by an Alphacoronavirus. <i>Frontiers in Nutrition</i> , 2022, 9, 870680.	3.7	7
33	Nuclear Receptors in Hepatic Glucose and Lipid Metabolism During Neonatal and Adult Life. <i>Current Protein and Peptide Science</i> , 2017, 18, 548-561.	1.4	6
34	Amino acid starvation-induced autophagy is involved in reduced subcutaneous fat deposition in weaning piglets derived from sows fed low-protein diet during gestation and lactation. <i>European Journal of Nutrition</i> , 2018, 57, 991-1001.	3.9	5
35	Dietary Conjugated Linoleic Acid Modulates the Hepatic Circadian Clock Program via PPAR $\alpha$ /REV-ERB $\alpha$ -Mediated Chromatin Modification in Mice. <i>Frontiers in Nutrition</i> , 2021, 8, 711398.	3.7	5
36	Targeted inhibition of PPAR $\alpha$ ameliorates CLA $\alpha$ -induced hypercholesterolemia via hepatic cholesterol biosynthesis reprogramming. <i>Liver International</i> , 2022, 42, 1449-1466.	3.9	5

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37	Expression of hepatic miRNAs targeting porcine glucocorticoid receptor (GR) 3'UTR in the neonatal piglets under a maternal gestational betaine supplementation. <i>Data in Brief</i> , 2016, 6, 4-7.	1.0	4
38	Lithocholic Acid Alleviates Deoxynivalenol-Induced Lethal Cholesterol Metabolic Abnormalities in IPI-2I Cells. <i>Metabolites</i> , 2022, 12, 659.	2.9	4
39	Maternal high-protein diet modulates hepatic growth axis in weaning piglets by reprogramming the IGFBP-3 gene. <i>European Journal of Nutrition</i> , 2020, 59, 2497-2506.	3.9	3
40	Gestational Betaine, Liver Metabolism, and Epigenetics. , 2017, , 1-14.		3
41	Genome-wide transcriptional profiling and functional analysis reveal miR-330-MAPK15 axis involving in cellular responses to deoxynivalenol exposure. <i>Chemosphere</i> , 2022, 298, 134199.	8.2	3
42	Stress Response Simulated by Continuous Injection of ACTH Attenuates Lipopolysaccharide-Induced Inflammation in Porcine Adrenal Gland. <i>Frontiers in Veterinary Science</i> , 2020, 7, 315.	2.2	2
43	Nuclear Receptor ROR $\alpha$ / $\beta$ : Exciting Modulators in Metabolic Syndrome and Related Disorders. <i>Frontiers in Nutrition</i> , 0, 9, .	3.7	2
44	Maternal protein restriction depresses the duodenal expression of iron transporters and serum iron level in male weaning piglets. <i>British Journal of Nutrition</i> , 2017, 117, 923-929.	2.3	1
45	Editorial: Integrated Role of Nutrition and Digestive Physiology for Animal Health. <i>Frontiers in Veterinary Science</i> , 2021, 8, 789496.	2.2	1
46	Gestational Betaine, Liver Metabolism, and Epigenetics. , 2019, , 1217-1230.		0
47	Abstract 3062: Silencing the epigenetic silencer KDM4A for TRAIL and DR5 simultaneous induction and antitumor therapy. , 2016, , .		0