

# Shih-Torng Ding

## 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.

102  
papers

1,675  
citations

24  
h-index

34  
g-index

105  
ext. papers

1,918  
ext. citations

3.5  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
102	N-3 polyunsaturated fatty acids regulate lipid metabolism through several inflammation mediators: mechanisms and implications for obesity prevention. <i>Journal of Nutritional Biochemistry</i> , <b>2010</b> , 21, 357-63	6.3	83
101	Toward an ideal animal model to trace donor cell fates after stem cell therapy: production of stably labeled multipotent mesenchymal stem cells from bone marrow of transgenic pigs harboring enhanced green fluorescence protein gene. <i>Journal of Animal Science</i> , <b>2011</b> , 89, 3460-72	0.7	74
100	Role of n-3 Polyunsaturated Fatty Acids in Ameliorating the Obesity-Induced Metabolic Syndrome in Animal Models and Humans. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	53
99	Adiponectin receptor 1 regulates bone formation and osteoblast differentiation by GSK-3 $\beta$ /catenin signaling in mice. <i>Bone</i> , <b>2014</b> , 64, 147-54	4.7	49
98	Cytoophidium assembly reflects upregulation of IMPDH activity. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 3550-53	5.3	47
97	Cloning and expression of porcine adiponectin and adiponectin receptor 1 and 2 genes in pigs. <i>Journal of Animal Science</i> , <b>2004</b> , 82, 3162-74	0.7	47
96	Fatty acids modulate porcine adipocyte differentiation and transcripts for transcription factors and adipocyte-characteristic proteins*. <i>Journal of Nutritional Biochemistry</i> , <b>2001</b> , 12, 101-108	6.3	46
95	Porcine peroxisome proliferator-activated receptor gamma induces transdifferentiation of myocytes into adipocytes. <i>Journal of Animal Science</i> , <b>2006</b> , 84, 2655-65	0.7	43
94	Expression of porcine adipocyte transcripts during differentiation in vitro and in vivo. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2000</b> , 126, 291-302	2.3	42
93	EGF-induced Grb7 recruits and promotes Ras activity essential for the tumorigenicity of Sk-Br3 breast cancer cells. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 29279-85	5.4	38
92	Docosahexaenoic acid suppresses the expression of FoxO and its target genes. <i>Journal of Nutritional Biochemistry</i> , <b>2012</b> , 23, 1609-16	6.3	34
91	Docosahexaenoic acid regulates serum amyloid A protein to promote lipolysis through down regulation of perilipin. <i>Journal of Nutritional Biochemistry</i> , <b>2010</b> , 21, 317-24	6.3	32
90	Effect of polyunsaturated fatty acids on the expression of transcription factor adipocyte determination and differentiation-dependent factor 1 and of lipogenic and fatty acid oxidation enzymes in porcine differentiating adipocytes. <i>British Journal of Nutrition</i> , <b>2003</b> , 90, 507-13	3.6	32
89	Characterization of changes in yolk sac and liver lipids during embryonic and early posthatch development of turkey poults. <i>Poultry Science</i> , <b>1996</b> , 75, 478-83	3.9	32
88	Taurine homeostasis requires de novo synthesis via cysteine sulfinic acid decarboxylase during zebrafish early embryogenesis. <i>Amino Acids</i> , <b>2013</b> , 44, 615-29	3.5	30
87	Ectopic expression of porcine peroxisome proliferator-activated receptor delta regulates adipogenesis in mouse myoblasts. <i>Journal of Animal Science</i> , <b>2008</b> , 86, 64-72	0.7	30
86	Abundantly expressed genes in pig adipose tissue: an expressed sequence tag approach. <i>Journal of Animal Science</i> , <b>2006</b> , 84, 2673-83	0.7	30

85	Modulation of adipocyte determination and differentiation-dependent factor 1 by selected polyunsaturated fatty acids. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2002</b> , 38, 352-7	2.6	30
84	Serum amyloid A protein regulates the expression of porcine genes related to lipid metabolism. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 674-9	4.1	28
83	A Review of the Phytochemistry and Pharmacology of L. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 1109	5.6	28
82	The high-fat diet induces myocardial fibrosis in the metabolically healthy obese minipigs-The role of ER stress and oxidative stress. <i>Clinical Nutrition</i> , <b>2017</b> , 36, 760-767	5.9	26
81	Adiponectin receptor 1 overexpression reduces lipid accumulation and hypertrophy in the heart of diet-induced obese mice--possible involvement of oxidative stress and autophagy. <i>Endocrine Research</i> , <b>2014</b> , 39, 173-9	1.9	26
80	Synergistic property of cordycepin in cultivated <i>Cordyceps militaris</i> -mediated apoptosis in human leukemia cells. <i>Phytomedicine</i> , <b>2014</b> , 21, 1516-24	6.5	26
79	Isolation and Differentiation of Adipose-Derived Stem Cells from Porcine Subcutaneous Adipose Tissues. <i>Journal of Visualized Experiments</i> , <b>2016</b> , e53886	1.6	25
78	The function of porcine PPAR $\alpha$ and dietary fish oil effect on the expression of lipid and glucose metabolism related genes. <i>Journal of Nutritional Biochemistry</i> , <b>2011</b> , 22, 179-86	6.3	24
77	Schizochytrium limacinum SR-21 as a source of docosahexaenoic acid: optimal growth and use as a dietary supplement for laying hens. <i>Australian Journal of Agricultural Research</i> , <b>2006</b> , 57, 13		24
76	Adiponectin and adiponectin receptor 1 overexpression enhance inflammatory bowel disease. <i>Journal of Biomedical Science</i> , <b>2018</b> , 25, 24	13.3	23
75	Docosahexaenoic acid regulates adipogenic genes in myoblasts via porcine peroxisome proliferator-activated receptor gamma. <i>Journal of Animal Science</i> , <b>2008</b> , 86, 3385-92	0.7	22
74	Differentially expressed transcripts in shell glands from low and high egg production strains of chickens using cDNA microarrays. <i>Animal Reproduction Science</i> , <b>2007</b> , 101, 113-24	2.1	22
73	Adiponectin receptor 1 enhances fatty acid metabolism and cell survival in palmitate-treated HepG2 cells through the PI3K/AKT pathway. <i>European Journal of Nutrition</i> , <b>2014</b> , 53, 907-17	5.2	21
72	Alleviation of Carbon-Tetrachloride-Induced Liver Injury and Fibrosis by Betaine Supplementation in Chickens. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2015</b> , 2015, 725379	2.3	21
71	Insulin regulates the expression of adiponectin and adiponectin receptors in porcine adipocytes. <i>Domestic Animal Endocrinology</i> , <b>2008</b> , 34, 352-9	2.3	21
70	Effect of fumonisins on macrophage immune functions and gene expression of cytokines in broilers. <i>Archives of Animal Nutrition</i> , <b>2006</b> , 60, 267-76	2.7	21
69	Visfatin regulates genes related to lipid metabolism in porcine adipocytes. <i>Journal of Animal Science</i> , <b>2010</b> , 88, 3233-41	0.7	20
68	Fasting regulates the expression of adiponectin receptors in young growing pigs. <i>Journal of Animal Science</i> , <b>2008</b> , 86, 3377-84	0.7	20

67	Conjugated linoleic acid increases the differentiation of porcine adipocytes in vitro. <i>Nutrition Research</i> , <b>2000</b> , 20, 1569-1580	4	20
66	Docosahexaenoic acid enhances hepatic serum amyloid A expression via protein kinase A-dependent mechanism. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 32239-47	5.4	19
65	Precision biomarker discovery powered by microscopy image fusion-assisted high spatial resolution ambient ionization mass spectrometry imaging. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1100, 75-87	6.6	19
64	Identification of Potential Plasma Biomarkers for Nonalcoholic Fatty Liver Disease by Integrating Transcriptomics and Proteomics in Laying Hens. <i>Journal of Nutrition</i> , <b>2017</b> , 147, 293-303	4.1	18
63	Activation of focal adhesion kinase through an interaction with $\beta$ integrin contributes to tumorigenicity of colon cancer. <i>FEBS Letters</i> , <b>2016</b> , 590, 1826-37	3.8	17
62	Enhanced amelioration of high-fat diet-induced fatty liver by docosahexaenoic acid and lysine supplementations. <i>BioMed Research International</i> , <b>2014</b> , 2014, 310981	3	16
61	Gene-wide tagging study of the effects of common genetic polymorphisms in the $\beta$ subunits of the GABA(A) receptor on epilepsy treatment response. <i>Pharmacogenomics</i> , <b>2013</b> , 14, 1849-56	2.6	16
60	Effect of unsaturated fatty acids on porcine adipocyte differentiation. <i>Nutrition Research</i> , <b>2003</b> , 23, 1059-1069	4.1	16
59	Tunable coverage of immobilized biomolecules for biofunctional interface design. <i>Biomaterials Science</i> , <b>2015</b> , 3, 1266-9	7.4	15
58	A nutritional nonalcoholic steatohepatitis minipig model. <i>Journal of Nutritional Biochemistry</i> , <b>2016</b> , 28, 51-60	6.3	15
57	Controlling multi-function of biomaterials interfaces based on multiple and competing adsorption of functional proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 149, 130-137	6	15
56	Development of a dietary-induced metabolic syndrome model using miniature pigs involvement of AMPK and SIRT1. <i>European Journal of Clinical Investigation</i> , <b>2015</b> , 45, 70-80	4.6	14
55	Effects of dietary algal docosahexaenoic acid oil supplementation on fatty acid deposition and gene expression in laying Leghorn hens. <i>Journal of Agricultural Science</i> , <b>2004</b> , 142, 683-690	1	14
54	The association of genetic variations in the promoter region of myostatin gene with growth traits in Duroc pigs. <i>Animal Biotechnology</i> , <b>2012</b> , 23, 291-8	1.4	13
53	Docosahexaenoic acid increases accumulation of adipocyte triacylglycerol through up-regulation of lipogenic gene expression in pigs. <i>Lipids in Health and Disease</i> , <b>2017</b> , 16, 33	4.4	12
52	The role of pericardial adipose tissue in the heart of obese minipigs. <i>European Journal of Clinical Investigation</i> , <b>2018</b> , 48, e12942	4.6	11
51	Telomere elongation and naive pluripotent stem cells achieved from telomerase haplo-insufficient cells by somatic cell nuclear transfer. <i>Cell Reports</i> , <b>2014</b> , 9, 1603-1609	10.6	11
50	Automated quantitative analysis of lipid accumulation and hydrolysis in living macrophages with label-free imaging. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 8549-59	4.4	11

49	The differential expression of hepatic genes between prelaying and laying geese. <i>Poultry Science</i> , <b>2007</b> , 86, 1206-12	3.9	11
48	Synergistically Controlled Stemness and Multilineage Differentiation Capacity of Stem Cells on Multifunctional Biointerfaces. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700243	4.6	10
47	Enhanced bone morphogenic property of parylene-C. <i>Biomaterials Science</i> , <b>2016</b> , 4, 1754-1760	7.4	10
46	Regulation of HGF-induced hepatocyte proliferation by the small GTPase Arf6 through the PIP-producing enzyme PIP5K1A. <i>Scientific Reports</i> , <b>2017</b> , 7, 9438	4.9	10
45	Abundantly expressed hepatic genes and their differential expression in liver of prelaying and laying geese. <i>Poultry Science</i> , <b>2009</b> , 88, 1955-62	3.9	10
44	Chitosan-assisted differentiation of porcine adipose tissue-derived stem cells into glucose-responsive insulin-secreting clusters. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172922	3.7	10
43	Sterol O-Acyltransferase 2 Contributes to the Yolk Cholesterol Trafficking during Zebrafish Embryogenesis. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167644	3.7	10
42	Ophiocordyceps formosana improves hyperglycemia and depression-like behavior in an STZ-induced diabetic mouse model. <i>BMC Complementary and Alternative Medicine</i> , <b>2016</b> , 16, 310	4.7	10
41	Evaluation of an Epitypified Ophiocordyceps formosana (Cordyceps s.l.) for Its Pharmacological Potential. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2015</b> , 2015, 189891	2.3	9
40	Melting analysis on microbeads in rapid temperature-gradient inside microchannels for single nucleotide polymorphisms detection. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 064109	3.2	9
39	Porcine adiponectin receptor 1 transgene resists high-fat/sucrose diet-induced weight gain, hepatosteatosis and insulin resistance in mice. <i>Experimental Animals</i> , <b>2013</b> , 62, 347-60	1.8	9
38	Porcine peroxisome proliferator-activated receptor delta mediates the lipolytic effects of dietary fish oil to reduce body fat deposition. <i>Journal of Animal Science</i> , <b>2010</b> , 88, 2009-18	0.7	9
37	Modulation of glucose and lipid metabolism by porcine adiponectin receptor 1-transgenic mesenchymal stromal cells in diet-induced obese mice. <i>Cytotherapy</i> , <b>2013</b> , 15, 971-8	4.8	8
36	Efficient SNP Discovery by Combining Microarray and Lab-on-a-Chip Data for Animal Breeding and Selection. <i>Microarrays (Basel, Switzerland)</i> , <b>2015</b> , 4, 570-95		8
35	A bead-based single nucleotide polymorphism (SNP) detection using melting temperature on a microchip. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 17, 477-488	2.8	8
34	Vapor-based coatings for antibacterial and osteogenic functionalization and the immunological compatibility. <i>Materials Science and Engineering C</i> , <b>2016</b> , 69, 283-91	8.3	8
33	A microfluidic chip for rapid single nucleotide polymorphism (SNP) genotyping using primer extension on microbeads. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 246, 215-224	8.5	7
32	Establishing a Smart Farm-Scale Piggery Wastewater Treatment System with the Internet of Things (IoT) Applications. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1654	3	6

31	The impact of DRP1 on myocardial fibrosis in the obese minipig. <i>European Journal of Clinical Investigation</i> , <b>2020</b> , 50, e13204	4.6	6
30	Survey of genetic structure of geese using novel microsatellite markers. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2018</b> , 31, 167-179	2.4	6
29	LRRK2 Regulates CPT1A to Promote $\beta$ Oxidation in HepG2 Cells. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
28	Development of microsatellite markers in an ungulate mammal, the Formosan serow ( <i>Capricornis swinhoei</i> ). <i>Conservation Genetics Resources</i> , <b>2012</b> , 4, 755-757	0.8	4
27	Differential gene expression between the porcine morula and blastocyst. <i>Reproduction in Domestic Animals</i> , <b>2012</b> , 47, 69-81	1.6	4
26	Regulation of the expression of angiotensin-converting enzyme 2 by polyunsaturated fatty acids in porcine adipocytes. <i>Journal of Animal Science</i> , <b>2010</b> , 88, 3563-7	0.7	4
25	Use of random amplified polymorphic DNA to identify several novel markers for sex identification in the crested serpent eagle and crested goshawk. <i>Theriogenology</i> , <b>2009</b> , 72, 755-64	2.8	4
24	Adiponectin receptor 1 resists the decline of serum osteocalcin and GPRC6A expression in ovariectomized mice. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189063	3.7	4
23	Expression profile of adiponectin and adiponectin receptors in high-fat diet feeding chickens. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2018</b> , 102, 1585-1592	2.6	4
22	Methyl Brevifolincarboxylate Attenuates Free Fatty Acid-Induced Lipid Metabolism and Inflammation in Hepatocytes through AMPK/NF- $\kappa$ B Signaling Pathway. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
21	A Newly Designed EGFP-2A Peptide Monocistronic Baculoviral Vector for Concatenating the Expression of Recombinant Proteins in Insect Cells. <i>Processes</i> , <b>2019</b> , 7, 291	2.9	3
20	Primary Endodermal Epithelial Cell Culture from the Yolk Sac Membrane of Japanese Quail Embryos. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	3
19	A novel chicken model of fatty liver disease induced by high cholesterol and low choline diets. <i>Poultry Science</i> , <b>2021</b> , 100, 100869	3.9	3
18	Development of 24 new microsatellite markers in the Crested Serpent Eagle ( <i>Spilornis cheela hoya</i> ). <i>Conservation Genetics Resources</i> , <b>2013</b> , 5, 417-420	0.8	2
17	Population structure and phylogenetic analysis of laboratory rabbits in Taiwan based on microsatellite markers. <i>World Rabbit Science</i> , <b>2018</b> , 26, 57	0.9	2
16	Monitoring of genetically close Tsaiya duck populations using novel microsatellite markers with high polymorphism. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2020</b> , 33, 888-901	2.4	2
15	Docosahexaenoic Acid Suppresses Expression of Adipogenic Tetranectin through Sterol Regulatory Element-Binding Protein and Forkhead Box O Protein in Pigs. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	2
14	Embryonic cholesterol esterification is regulated by a cyclic AMP-dependent pathway in yolk sac membrane-derived endodermal epithelial cells. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187560	3.7	1

13	Sex identification in the Collared Scops Owl ( <i>Otus bakkamoena</i> ) with novel markers generated by random amplified polymorphic DNA. <i>Conservation Genetics Resources</i> , <b>2013</b> , 5, 239-242	0.8	1
12	Modulation of Fatty Acid Oxidation and Glucose Uptake by Oxytocin in Adipocytes. <i>Journal of Biomedical Science and Engineering</i> , <b>2017</b> , 10, 37-50	0.7	1
11	The effect of dietary docosahexaenoic acid on the expression of lipogenic genes in broilers. <i>Australian Journal of Agricultural Research</i> , <b>2007</b> , 58, 153		1
10	Tetranectin Promotes Adipogenesis and Lipogenesis and is Negatively Regulated by Polyunsaturated Fatty Acids in Human Adipocytes. <i>FASEB Journal</i> , <b>2012</b> , 26, lb303	0.9	1
9	Docosahexaenoic Acid Inhibits White Adipogenesis and Enhances Mitochondrial Biogenesis through SIRT1 and Hh Signaling. <i>FASEB Journal</i> , <b>2015</b> , 29, 995.11	0.9	1
8	Sterol-O acyltransferase 1 is inhibited by gga-miR-181a-5p and gga-miR-429-3p through the TGF $\beta$ pathway in endodermal epithelial cells of Japanese quail. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2020</b> , 240, 110376	2.3	1
7	Overexpression of Adiponectin Receptor 1 Inhibits Brown and Beige Adipose Tissue Activity in Mice. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
6	Leucine-Rich Repeat Kinase 2 Promotes $\beta$ Oxidation via the Regulation of CPT1a in Nonalcoholic Fatty Liver Disease. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
5	The effect of dietary docosahexaenoic acid on the expression of porcine lipid metabolism-related genes1. <i>Journal of Animal Science</i> , <b>2004</b> , 82, 683-689	0.7	
4	DHA up-regulated expression of lipogenic and endoplasmic reticulum stress related genes in pig adipose tissues. <i>FASEB Journal</i> , <b>2015</b> , 29, 568.20	0.9	
3	Isolation of adipose-derived stem cells from human breast subcutaneous adipose tissues and their differentiation into beige adipose tissue-like adipocytes. <i>FASEB Journal</i> , <b>2013</b> , 27, 1204.3	0.9	
2	Production of Live Offspring from Vitrified-Warmed Oocytes Collected at Metaphase I Stage. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157785	3.7	
1	The role of dynamin in absorbing lipids into endodermal epithelial cells of yolk sac membranes during embryonic development in Japanese quail. <i>Poultry Science</i> , <b>2021</b> , 100, 101470	3.9	