Hui-Young Lee

List of Publications by Year
in descending order

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70 papers	5,716 citations	117453 34 h-index	85405 71 g-index
71 all docs	71 docs citations	71 times ranked	10942 citing authors

#	Article	IF	Citations
1	Metformin suppresses gluconeogenesis by inhibiting mitochondrial glycerophosphate dehydrogenase. Nature, 2014, 510, 542-546.	13.7	989
2	Desnutrin/ATGL Is Regulated by AMPK and Is Required for a Brown Adipose Phenotype. Cell Metabolism, 2011, 13, 739-748.	7.2	440
3	Human originated bacteria, Lactobacillus rhamnosus PL60, produce conjugated linoleic acid and show anti-obesity effects in diet-induced obese mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 736-744.	1.2	284
4	Targeted Expression of Catalase to Mitochondria Prevents Age-Associated Reductions in Mitochondrial Function and Insulin Resistance. Cell Metabolism, 2010, 12, 668-674.	7.2	274
5	Paradoxical effects of increased expression of PGC-1Î± on muscle mitochondrial function and insulin-stimulated muscle glucose metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19926-19931.	3.3	257
6	AdPLA ablation increases lipolysis and prevents obesity induced by high-fat feeding or leptin deficiency. Nature Medicine, 2009, 15, 159-168.	15.2	234
7	The H19/let-7 double-negative feedback loop contributes to glucose metabolism in muscle cells. Nucleic Acids Research, 2014, 42, 13799-13811.	6.5	218
8	SGLT2 Deletion Improves Glucose Homeostasis and Preserves Pancreatic Î²-Cell Function. Diabetes, 2011, 60, 890-898.	0.3	197
9	Deletion of the Mammalian INDY Homolog Mimics Aspects of Dietary Restriction and Protects against Adiposity and Insulin Resistance in Mice. Cell Metabolism, 2011, 14, 184-195.	7.2	193
10	Reversal of Hypertriglyceridemia, Fatty Liver Disease, and Insulin Resistance by a Liver-Targeted Mitochondrial Uncoupler. Cell Metabolism, 2013, 18, 740-748.	7.2	190
11	A high-fat, ketogenic diet causes hepatic insulin resistance in mice, despite increasing energy expenditure and preventing weight gain. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E808-E815.	1.8	174
12	Cellular Mechanism by Which Estradiol Protects Female Ovariectomized Mice From High-Fat Diet-Induced Hepatic and Muscle Insulin Resistance. Endocrinology, 2013, 154, 1021-1028.	1.4	154
13	Hepatic insulin resistance in mice with hepatic overexpression of diacylglycerol acyltransferase 2. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5748-5752.	3.3	139
14	Dissociation of Inositol-requiring Enzyme (IRE1Î±)-mediated c-Jun N-terminal Kinase Activation from Hepatic Insulin Resistance in Conditional X-box-binding Protein-1 (XBP1) Knock-out Mice. Journal of Biological Chemistry, 2012, 287, 2558-2567.	1.6	132
15	Deletion of the Î±-Arrestin Protein Txnip in Mice Promotes Adiposity and Adipogenesis While Preserving Insulin Sensitivity. Diabetes, 2010, 59, 1424-1434.	0.3	131
16	Apolipoprotein CIII overexpressing mice are predisposed to dietâ€induced hepatic steatosis and hepatic insulin resistance. Hepatology, 2011, 54, 1650-1660.	3.6	114
17	Activation of sphingosine kinase 2 by endoplasmic reticulum stress ameliorates hepatic steatosis and insulin resistance in mice. Hepatology, 2015, 62, 135-146.	3.6	89
18	Production of specific antibodies against SARS-coronavirus nucleocapsid protein without cross reactivity with human coronaviruses 229E and OC43. Journal of Veterinary Science, 2010, 11, 165.	0.5	85

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19	Impact of CD1d Deficiency on Metabolism. PLoS ONE, 2011, 6, e25478.	1.1	68
20	Low Density Lipoprotein (LDL) Receptor-related Protein 6 (LRP6) Regulates Body Fat and Glucose Homeostasis by Modulating Nutrient Sensing Pathways and Mitochondrial Energy Expenditure. Journal of Biological Chemistry, 2012, 287, 7213-7223.	1.6	67
21	Thyroid Hormone Receptor-Î± Gene Knockout Mice Are Protected from Diet-Induced Hepatic Insulin Resistance. Endocrinology, 2012, 153, 583-591.	1.4	66
22	Influence of the Hepatic Eukaryotic Initiation Factor 2Î± (eIF2Î±) Endoplasmic Reticulum (ER) Stress Response Pathway on Insulin-mediated ER Stress and Hepatic and Peripheral Glucose Metabolism. Journal of Biological Chemistry, 2011, 286, 36163-36170.	1.6	65
23	Ezetimibe, an NPC1L1 inhibitor, is a potent Nrf2 activator that protects mice from diet-induced nonalcoholic steatohepatitis. Free Radical Biology and Medicine, 2016, 99, 520-532.	1.3	62
24	AMPK is critical for mitochondrial function during reperfusion after myocardial ischemia. Journal of Molecular and Cellular Cardiology, 2016, 91, 104-113.	0.9	62
25	The role of lipids in the pathogenesis and treatment of type 2 diabetes and associated co-morbidities. BMB Reports, 2016, 49, 139-148.	1.1	57
26	Mitochondrial ATP transporter depletion protects mice against liver steatosis and insulin resistance. Nature Communications, 2017, 8, 14477.	5.8	55
27	Adipocyte-Specific Deficiency of De Novo Sphingolipid Biosynthesis Leads to Lipodystrophy and Insulin Resistance. Diabetes, 2017, 66, 2596-2609.	0.3	50
28	A protective mechanism of probiotic Lactobacillus against hepatic steatosis via reducing host intestinal fatty acid absorption. Experimental and Molecular Medicine, 2019, 51, 1-14.	3.2	50
29	Diabetes in Mice With Selective Impairment of Insulin Action in Glut4-Expressing Tissues. Diabetes, 2011, 60, 700-709.	0.3	48
30	Mitochondrial-Targeted Catalase Protects Against High-Fat Dietâ€“Induced Muscle Insulin Resistance by Decreasing Intramuscular Lipid Accumulation. Diabetes, 2017, 66, 2072-2081.	0.3	45
31	Effects of Renal Replacement Therapy in Patients Receiving Extracorporeal Membrane Oxygenation: A Meta-Analysis. Annals of Thoracic Surgery, 2015, 100, 1485-1495.	0.7	43
32	Arsenite-induced apoptosis is prevented by antioxidants in zebrafish liver cell line. Toxicology in Vitro, 2007, 21, 870-877.	1.1	40
33	Protective effects of vitamin E against 3,3â€²,4,4â€²,5-pentachlorobiphenyl (PCB126) induced toxicity in zebrafish embryos. Ecotoxicology and Environmental Safety, 2009, 72, 714-719.	2.9	39
34	Developmental toxicity and brain aromatase induction by high genistein concentrations in zebrafish embryos. Toxicology Mechanisms and Methods, 2009, 19, 251-256.	1.3	38
35	Potential antimicrobial effects of human lactoferrin against oral infection with Listeria monocytogenes in mice. Journal of Medical Microbiology, 2005, 54, 1049-1054.	0.7	32
36	Fatty acid amide hydrolase ablation promotes ectopic lipid storage and insulin resistance due to centrally mediated hypothyroidism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14966-14971.	3.3	32

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37	In vivo alternative testing with zebrafish in ecotoxicology. Journal of Veterinary Science, 2008, 9, 351.	0.5	30
38	Deletion of KLF10 Leads to Stress-Induced Liver Fibrosis upon High Sucrose Feeding. International Journal of Molecular Sciences, 2021, 22, 331.	1.8	28
39	Intrinsic expression of viperin regulates thermogenesis in adipose tissues. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17419-17428.	3.3	27
40	Quantitative GFP fluorescence as an indicator of arsenite developmental toxicity in mosaic heat shock protein 70 transgenic zebrafish. Toxicology and Applied Pharmacology, 2007, 225, 154-161.	1.3	25
41	Specific activation of the human HSP70 promoter by copper sulfate in mosaic transgenic zebrafish. Journal of Biotechnology, 2006, 126, 406-413.	1.9	24
42	Short-term food restriction followed by controlled refeeding promotes gorging behavior, enhances fat deposition, and diminishes insulin sensitivity in mice. Journal of Nutritional Biochemistry, 2015, 26, 721-728.	1.9	24
43	Phospholipase D1 deficiency in mice causes nonalcoholic fatty liver disease via an autophagy defect. Scientific Reports, 2016, 6, 39170.	1.6	23
44	The high prevalence of sp. in porcine pyloric mucosa and its histopathological and molecular characteristics. Veterinary Microbiology, 2004, 104, 219-225.	0.8	22
45	Benomyl induction of brain aromatase and toxic effects in the zebrafish embryo. Journal of Applied Toxicology, 2009, 29, 289-294.	1.4	22
46	Detection of antibodies against SARS-Coronavirus using recombinant truncated nucleocapsid proteins by ELISA. Journal of Microbiology and Biotechnology, 2008, 18, 1717-21.	0.9	21
47	Enhanced Fasting Glucose Turnover in Mice with Disrupted Action of TUG Protein in Skeletal Muscle. Journal of Biological Chemistry, 2013, 288, 20135-20150.	1.6	20
48	Mitochondrial GTP Insensitivity Contributes to Hypoglycemia in Hyperinsulinemia Hyperammonemia by Inhibiting Glucagon Release. Diabetes, 2014, 63, 4218-4229.	0.3	20
49	Revisiting the Bacterial Phylum Composition in Metabolic Diseases Focused on Host Energy Metabolism. Diabetes and Metabolism Journal, 2020, 44, 658-667.	1.8	19
50	Evaluation ofphoPandrpoSmutants ofSalmonella entericaserovar Typhi as attenuated typhoid vaccine candidates: virulence and protective immune responses in intranasally immunized mice. FEMS Immunology and Medical Microbiology, 2007, 51, 310-318.	2.7	18
51	Characteristics of the gastritis induced by Listeria monocytogenes in mice: microbiology, histopathology, and mRNA expression of inflammatory mediators with time course of infection. Microbial Pathogenesis, 2004, 37, 87-94.	1.3	17
52	Antimicrobial effect of lactic acid producing bacteria culture condensate mixture (LCCM) against Salmonella enteritidis. International Journal of Food Microbiology, 2005, 101, 111-117.	2.1	17
53	The essential role of fructose-1,6-bisphosphatase 2 enzyme in thermal homeostasis upon cold stress. Experimental and Molecular Medicine, 2020, 52, 485-496.	3.2	15
54	Mechanisms linking gut microbial metabolites to insulin resistance. World Journal of Diabetes, 2021, 12, 730-744.	1.3	15

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55	Muscle-specific activation of Ca2+/calmodulin-dependent protein kinase IV increases whole-body insulin action in mice. Diabetologia, 2014, 57, 1232-1241.	2.9	12
56	Immunoenhancing Effects of a New Probiotic Strain, Lactobacillus fermentum PL9005. Journal of Food Protection, 2005, 68, 571-576.	0.8	11
57	Epitheliocystis in Carp (Cyprinus carpio) in South Korea. Journal of Veterinary Medical Science, 2005, 67, 119-120.	0.3	10
58	Highly expressed recombinant human follicle-stimulating hormone from Chinese hamster ovary cellsÂgrown in serum-free medium and its effect onÂinduction of folliculogenesis and ovulation. Fertility and Sterility, 2010, 93, 2652-2660.	0.5	10
59	In-depth metabolic phenotyping of genetically engineered mouse models in obesity and diabetes. Mammalian Genome, 2014, 25, 508-521.	1.0	10
60	Safety and protective effect of a disinfectant (STEL water) for white spot syndrome viral infection in shrimp. Diseases of Aquatic Organisms, 2004, 60, 253-257.	0.5	9
61	Use of PCR-restriction fragment length polymorphism for the identification of zoonotic mycobacteriosis in zebrafish caused by Mycobacterium abscessus and Mycobacterium chelonae. Veterinary Microbiology, 2006, 114, 292-297.	0.8	8
62	Protective and therapeutic effects of an extract mixture of alder tree, labiate herb, milk thistle green bean-rice bran fermentation, and turnip against ethanol-induced toxicity in the rat. Journal of Veterinary Science, 2008, 9, 31.	0.5	7
63	Estrogen-responsive transient expression assay using a brain aromatase-based reporter gene in zebrafish (Danio rerio). Comparative Medicine, 2009, 59, 416-23.	0.4	7
64	Microbiological Monitoring of Guinea Pigs Reared Conventionally at Two Breeding Facilities in Korea. Experimental Animals, 2006, 55, 427-432.	0.7	6
65	Microbiological Quality Assessment of Laboratory Mice in Korea and Recommendations for Quality Improvement. Experimental Animals, 2010, 59, 25-33.	0.7	5
66	Bone morphogenic protein 9 is a novel thermogenic hepatokine secreted in response to cold exposure. Metabolism: Clinical and Experimental, 2022, 129, 155139.	1.5	5
67	.BETA.-Naphthoflavone Caused Up-Regulation of AhR Regulated GFP in Transgenic Zebrafish. Experimental Animals, 2004, 53, 479-483.	0.7	4
68	Differential Identification of Mycoplasma pulmonis and M. arthritidis Using PCR-Based RFLP. Experimental Animals, 2005, 54, 359-362.	0.7	4
69	Deletion of the Mammalian INDY Homolog Mimics Aspects of Dietary Restriction and Protects against Adiposity and Insulin Resistance in Mice. Cell Metabolism, 2011, 14, 567.	7.2	4
70	Carbonic anhydrase II gene upregulation and tumorigenesis in Lewis lung carcinomaâ€bearing mice. Basic and Applied Pathology, 2008, 1, 9-11.	0.2	2