Soonkyu Chung

List of Publications by Year
in descending order

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Version: 2024-02-01

90 papers	3,196 citations	117453 34 h-index	161609 54 g-index
92 all docs	92 docs citations	92 times ranked	4716 citing authors

#	Article	IF	Citations
1	Preadipocytes Mediate Lipopolysaccharide-Induced Inflammation and Insulin Resistance in Primary Cultures of Newly Differentiated Human Adipocytes. Endocrinology, 2006, 147, 5340-5351.	1.4	227
2	Inhibition of Stearoyl-Coenzyme A Desaturase 1 Dissociates Insulin Resistance and Obesity From Atherosclerosis. Circulation, 2008, 118, 1467-1475.	1.6	148
3	Conjugated Linoleic Acid Induces Human Adipocyte Delipidation. Journal of Biological Chemistry, 2004, 279, 26735-26747.	1.6	142
4	Dietary Factors Promoting Brown and Beige Fat Development and Thermogenesis. Advances in Nutrition, 2017, 8, 473-483.	2.9	140
5	Conjugated Linoleic Acid Promotes Human Adipocyte Insulin Resistance through NFÎºB-dependent Cytokine Production. Journal of Biological Chemistry, 2005, 280, 38445-38456.	1.6	139
6	Improvements in Metabolic Health with Consumption of Ellagic Acid and Subsequent Conversion into Urolithins: Evidence and Mechanisms. Advances in Nutrition, 2016, 7, 961-972.	2.9	128
7	Eicosapentaenoic Acid Potentiates Brown Thermogenesis through FFAR4-dependent Up-regulation of miR-30b and miR-378. Journal of Biological Chemistry, 2016, 291, 20551-20562.	1.6	94
8	Urolithin A, C, and D, but not isoâ€urolithin A and urolithin B, attenuate triglyceride accumulation in human cultures of adipocytes and hepatocytes. Molecular Nutrition and Food Research, 2016, 60, 1129-1138.	1.5	85
9	Targeted Deletion of Hepatocyte ABCA1 Leads to Very Low Density Lipoprotein Triglyceride Overproduction and Low Density Lipoprotein Hypercatabolism. Journal of Biological Chemistry, 2010, 285, 12197-12209.	1.6	81
10	Activation of Toll-like Receptor 4 (TLR4) Attenuates Adaptive Thermogenesis via Endoplasmic Reticulum Stress. Journal of Biological Chemistry, 2015, 290, 26476-26490.	1.6	81
11	Adipose Tissue ATP Binding Cassette Transporter A1 Contributes to High-Density Lipoprotein Biogenesis In Vivo. Circulation, 2011, 124, 1663-1672.	1.6	77
12	Suppression of NLRP3 inflammasome by Î³-tocotrienol ameliorates type 2 diabetes. Journal of Lipid Research, 2016, 57, 66-76.	2.0	72
13	Trans-10,cis-12 CLA increases adipocyte lipolysis and alters lipid droplet-associated proteins: role of mTOR and ERK signaling. Journal of Lipid Research, 2005, 46, 885-895.	2.0	69
14	BMP7 Drives Human Adipogenic Stem Cells into Metabolically Active Beige Adipocytes. Lipids, 2015, 50, 111-120.	0.7	63
15	Trans-10, Cis-12 Conjugated Linoleic Acid Antagonizes Ligand-Dependent PPARÎ³ Activity in Primary Cultures of Human Adipocytes. Journal of Nutrition, 2008, 138, 455-461.	1.3	61
16	Inhibitory Effects of Toll-Like Receptor 4, NLRP3 Inflammasome, and Interleukin-1Î² on White Adipocyte Browning. Inflammation, 2018, 41, 626-642.	1.7	61
17	Combined Therapy of Dietary Fish Oil and Stearoyl-CoA Desaturase 1 Inhibition Prevents the Metabolic Syndrome and Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 24-30.	1.1	59
18	Niemann-Pick C1-Like 1 deletion in mice prevents high-fat diet-induced fatty liver by reducing lipogenesis. Journal of Lipid Research, 2010, 51, 3135-3144.	2.0	58

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19	Urolithin A, a Gut Metabolite, Improves Insulin Sensitivity Through Augmentation of Mitochondrial Function and Biogenesis. Obesity, 2019, 27, 612-620.	1.5	53
20	Muscadine Grape (Vitis rotundifolia) and Wine Phytochemicals Prevented Obesity-Associated Metabolic Complications in C57BL/6J Mice. Journal of Agricultural and Food Chemistry, 2012, 60, 7674-7681.	2.4	50
21	CGI-58 facilitates the mobilization of cytoplasmic triglyceride for lipoprotein secretion in hepatoma cells. Journal of Lipid Research, 2007, 48, 2295-2305.	2.0	47
22	Ellagic acid modulates lipid accumulation in primary human adipocytes and human hepatoma Huh7 cells via discrete mechanisms. Journal of Nutritional Biochemistry, 2015, 26, 82-90.	1.9	47
23	CGI-58/ABHD5-Derived Signaling Lipids Regulate Systemic Inflammation and Insulin Action. Diabetes, 2012, 61, 355-363.	0.3	46
24	Raspberry seed flour attenuates high-sucrose diet-mediated hepatic stress and adipose tissue inflammation. Journal of Nutritional Biochemistry, 2016, 32, 64-72.	1.9	45
25	Mechanically robust cryogels with injectability and bioprinting supportability for adipose tissue engineering. Acta Biomaterialia, 2018, 74, 131-142.	4.1	45
26	Inflammation and insulin resistance induced by trans-10, cis-12 conjugated linoleic acid depend on intracellular calcium levels in primary cultures of human adipocytes. Journal of Lipid Research, 2010, 51, 1906-1917.	2.0	44
27	Ellagic acid inhibits adipocyte differentiation through coactivator-associated arginine methyltransferase 1-mediated chromatin modification. Journal of Nutritional Biochemistry, 2014, 25, 946-953.	1.9	44
28	Dietary cholesterol effects on adipose tissue inflammation. Current Opinion in Lipidology, 2016, 27, 19-25.	1.2	43
29	Adaptive thermogenesis by dietary n-3 polyunsaturated fatty acids: Emerging evidence and mechanisms. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 59-70.	1.2	40
30	Trans-10, cis-12 conjugated linoleic acid decreases de novo lipid synthesis in human adipocytes. Journal of Nutritional Biochemistry, 2012, 23, 580-590.	1.9	39
31	Targeted Deletion of Adipocyte Abca1 (ATP-Binding Cassette Transporter A1) Impairs Diet-Induced Obesity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 733-743.	1.1	39
32	Immunomodulatory Role of Urolithin A on Metabolic Diseases. Biomedicines, 2021, 9, 192.	1.4	39
33	Effects of tunable, 3D-bioprinted hydrogels on human brown adipocyte behavior and metabolic function. Acta Biomaterialia, 2018, 71, 486-495.	4.1	38
34	Therapeutic potential of garlic chive-derived vesicle-like nanoparticles in NLRP3 inflammasome-mediated inflammatory diseases. Theranostics, 2021, 11, 9311-9330.	4.6	38
35	Hepatic ABCA1 and VLDL triglyceride production. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 770-777.	1.2	36
36	Regulation of Obesity and Metabolic Complications by Gamma and Delta Tocotrienols. Molecules, 2016, 21, 344.	1.7	36

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37	Dietary Cholesterol Promotes Adipocyte Hypertrophy and Adipose Tissue Inflammation in Visceral, but Not in Subcutaneous, Fat in Monkeys. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1880-1887.	1.1	35
38	Differential Effects of Grape Powder and Its Extract on Glucose Tolerance and Chronic Inflammation in High-Fat-Fed Obese Mice. Journal of Agricultural and Food Chemistry, 2012, 60, 12458-12468.	2.4	34
39	Hepatic ABC transporters and triglyceride metabolism. Current Opinion in Lipidology, 2012, 23, 196-200.	1.2	33
40	A novel role for ABCA1-generated large pre-Â migrating nascent HDL in the regulation of hepatic VLDL triglyceride secretion. Journal of Lipid Research, 2010, 51, 729-742.	2.0	33
41	Muscadine grape seed oil as a novel source of tocotrienols to reduce adipogenesis and adipocyte inflammation. Food and Function, 2015, 6, 2293-2302.	2.1	32
42	Hepatocyte ABCA1 Deletion Impairs Liver Insulin Signaling and Lipogenesis. Cell Reports, 2017, 19, 2116-2129.	2.9	32
43	Activation of autophagy and <scp>AMPK</scp> by gammaâ€tocotrienol suppresses the adipogenesis in human adipose derived stem cells. Molecular Nutrition and Food Research, 2014, 58, 569-579.	1.5	31
44	Maternal n-3 PUFA supplementation promotes fetal brown adipose tissue development through epigenetic modifications in C57BL/6 mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1488-1497.	1.2	31
45	Î±-Linolenic acid-enriched butter attenuated high fat diet-induced insulin resistance and inflammation by promoting bioconversion of n-3 PUFA and subsequent oxylipin formation. Journal of Nutritional Biochemistry, 2020, 76, 108285.	1.9	29
46	Ocular Inflammation and Endoplasmic Reticulum Stress Are Attenuated by Supplementation with Grape Polyphenols in Human Retinal Pigmented Epithelium Cells and in C57BL/6 Mice. Journal of Nutrition, 2014, 144, 799-806.	1.3	28
47	A Scalable and Efficient Bioprocess for Manufacturing Human Pluripotent Stem Cell-Derived Endothelial Cells. Stem Cell Reports, 2018, 11, 454-469.	2.3	22
48	Red Raspberry Polyphenols Attenuate Highâ€Fat Dietâ€“Driven Activation of NLRP3 Inflammasome and its Paracrine Suppression of Adipogenesis via Histone Modifications. Molecular Nutrition and Food Research, 2020, 64, e1900995.	1.5	22
49	Gammaâ€Tocotrienol Attenuates the Hepatic Inflammation and Fibrosis by Suppressing Endoplasmic Reticulum Stress in Mice. Molecular Nutrition and Food Research, 2018, 62, e1800519.	1.5	20
50	Alpha-Linolenic Acid-Enriched Butter Promotes Fatty Acid Remodeling and Thermogenic Activation in the Brown Adipose Tissue. Nutrients, 2020, 12, 136.	1.7	19
51	Differential Effects of Whole Red Raspberry Polyphenols and Their Gut Metabolite Urolithin A on Neuroinflammation in BV-2 Microglia. International Journal of Environmental Research and Public Health, 2021, 18, 68.	1.2	19
52	Gamma-tocotrienol attenuates the aberrant lipid mediator production in NLRP3 inflammasome-stimulated macrophages. Journal of Nutritional Biochemistry, 2018, 58, 169-177.	1.9	18
53	Development of ovarian tumour causes significant loss of muscle and adipose tissue: a novel mouse model for cancer cachexia study. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 1289-1301.	2.9	17
54	Polyphenolic fractions isolated from red raspberry whole fruit, pulp, and seed differentially alter the gut microbiota of mice with diet-induced obesity. Journal of Functional Foods, 2021, 76, 104288.	1.6	16

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55	Dietary Iron Deficiency Modulates Adipocyte Iron Homeostasis, Adaptive Thermogenesis, and Obesity in C57BL/6 Mice. Journal of Nutrition, 2021, 151, 2967-2975.	1.3	15
56	The thermogenic characteristics of adipocytes are dependent on the regulation of iron homeostasis. Journal of Biological Chemistry, 2021, 296, 100452.	1.6	15
57	Nutrigenomic Functions of PPARs in Obesogenic Environments. PPAR Research, 2016, 2016, 1-17.	1.1	14
58	Is Exercise a Match for Cold Exposure? Common Molecular Framework for Adipose Tissue Browning. International Journal of Sports Medicine, 2020, 41, 427-442.	0.8	14
59	Hepatic ABCA1 deficiency is associated with delayed apolipoprotein B secretory trafficking and augmented VLDL triglyceride secretion. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1035-1043.	1.2	12
60	Manufacturing human pluripotent stem cell derived endothelial cells in scalable and cell-friendly microenvironments. Biomaterials Science, 2019, 7, 373-388.	2.6	12
61	Sestrin2 Phosphorylation by ULK1 Induces Autophagic Degradation of Mitochondria Damaged by Copper-Induced Oxidative Stress. International Journal of Molecular Sciences, 2020, 21, 6130.	1.8	12
62	Apigenin Reverses Interleukinâ€1Î²â€Induced Suppression of Adipocyte Browning via COX2/PGE2 Signaling Pathway in Human Adipocytes. Molecular Nutrition and Food Research, 2020, 64, 1900925.	1.5	11
63	Myeloid cell-specific ABCA1 deletion does not worsen insulin resistance in HF diet-induced or genetically obese mouse models. Journal of Lipid Research, 2013, 54, 2708-2717.	2.0	10
64	Annatto Tocotrienol Attenuates NLRP3 Inflammasome Activation in Macrophages. Current Developments in Nutrition, 2017, 1, e000760.	0.1	10
65	Essential role of systemic iron mobilization and redistribution for adaptive thermogenesis through HIF2-Î±/hepcidin axis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2109186118.	3.3	9
66	3D bioprinted white adipose model for in vitro study of cancer-associated cachexia induced adipose tissue remodeling. Biofabrication, 2022, 14, 034106.	3.7	9
67	Echium Oil Reduces Plasma Triglycerides by Increasing Intravascular Lipolysis in apoB100-Only Low Density Lipoprotein (LDL) Receptor Knockout Mice. Nutrients, 2013, 5, 2629-2645.	1.7	8
68	Visceral adipose tissue remodeling in pancreatic ductal adenocarcinoma cachexia: the role of activin A signaling. Scientific Reports, 2022, 12, 1659.	1.6	8
69	Arsenic Toxicity on Metabolism and Autophagy in Adipose and Muscle Tissues. Antioxidants, 2022, 11, 689.	2.2	7
70	Urolithin C, a Gut Microbiota Metabolite Derived from Ellagic Acid, Attenuates Triglyceride Accumulation in Human Adipocytes and Hepatoma Huh7 Cells. FASEB Journal, 2015, 29, 130.1.	0.2	2
71	The Gut Microbiota Regulates the Metabolic Benefits Mediated by Red Raspberry Polyphenols. Current Developments in Nutrition, 2021, 5, 1187.	0.1	1
72	Nutraceutical Values of Muscadine against Obesity and Metabolic Complications inâ€vivo. FASEB Journal, 2012, 26, 818.6.	0.2	1

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73	Ellagic Acid Supplementation Attenuates Sucroseâ€induced Obesity and Metabolic Complication in C57BL/6 mice. FASEB Journal, 2015, 29, 402.6.	0.2	1
74	The Influence of High-Fat Diet in Early Life on Intestinal Tumorigenesis in APC1638N Mice. Current Developments in Nutrition, 2021, 5, 272.	0.1	0
75	Impact of High-Fat Diet in Early-Life on Mammary Metabolic and Inflammatory Status in Later-Life in Mice. Current Developments in Nutrition, 2021, 5, 54.	0.1	0
76	Diet-Induced Non-anemic Iron Deficiency Attenuates Adaptive Thermogenesis via Defective Iron Metabolism of Adipose Tissue in C57BL/6 Mice. Current Developments in Nutrition, 2021, 5, 1330.	0.1	0
77	Loss of Thermogenic Energy Expenditure via Targeted Deletion of Transferrin Receptor 1 in Adipocytes Instigates Hepatic Steatosis and Insulin Resistance. Current Developments in Nutrition, 2021, 5, 954.	0.1	0
78	Obesity-Induced Tumor Necrosis Factor Alpha Suppresses In Vivo and In Vitro Retinoic Acid Synthesis and Fatty Acid Oxidation in Adipose Tissue. Current Developments in Nutrition, 2021, 5, 955.	0.1	0
79	Proinflammatory cytokine gene expression is influenced by the degree of differentiation of primary cultures of human adipocytes. FASEB Journal, 2006, 20, .	0.2	0
80	Lipid-Lowering Actions of trans-10, cis-12 Conjugated Linoleic Acid in Primary Cultures of Human (Pre) Adipocytes. , 2006, , 227-238.		0
81	Docosahexanoic acid (DHA) Attenuates Inflammation in Primary Cultures of Human (Pre)adipocytes. FASEB Journal, 2007, 21, A735.	0.2	0
82	Transcriptional attributes of constitutively active brown adipose tissue in nonhuman primates. FASEB Journal, 2012, 26, 819.31.	0.2	0
83	Brown adipocyte commitment of primary human adipose stem cells in vitro. FASEB Journal, 2012, 26, 819.9.	0.2	0
84	Gammaâ€tocotrienol antagonizes adipogenesis through activation of AMPK/autophagy axis in primary human adipocytes. FASEB Journal, 2013, 27, 222.6.	0.2	0
85	Ellagic acid inhibits hyperplastic conversion of human adiposederived stem cells through histone deacetylaseâ€dependent mechanisms. FASEB Journal, 2013, 27, 247.6.	0.2	0
86	Gamma tocotrienol improves high fat dietâ€induced obesity and insulin resistance by inhibiting adipose inflammation and macrophage recruitment (383.4). FASEB Journal, 2014, 28, 383.4.	0.2	0
87	Ellagic acid attenuates adipocyte and hepatic triglyceride contents via discrete mechanisms (269.6). FASEB Journal, 2014, 28, 269.6.	0.2	0
88	Ocular endoplasmic reticulum stress and inflammation is attenuated by supplementation with muscadine grape polyphenols in vitro and in vivo (1045.2). FASEB Journal, 2014, 28, 1045.2.	0.2	0
89	Ellagic acid attenuates adipocyte differentiation via histone arginine methylationâ€associated epigenetic modification (271.2). FASEB Journal, 2014, 28, 271.2.	0.2	0
90	Paracrine Signaling From Pancreatic Ductal Cancer Cells Induced Programmed-Cell Death in 3T3-L1 Adipocytes Through Apoptosis and Ferroptosis. Current Developments in Nutrition, 2022, 6, 244.	0.1	0