Soy protein and isoflavones influence adiposity and development of metabolic syndrome in the obese male ZDF rat

DOI: 10.1159/000100820
Annals of Nutrition and Metabolism, 2007, 51, 42-52.

#	Paper	IF	Citations
68	Ginseng modifies the diabetic phenotype and genes associated with diabetes in the male ZDF rat. *Phytomedicine*, **2007**, 14, 681-9	6.5	36
67	Effect of AOB, a fermented-grain food supplement, on oxidative stress in type 2 diabetic rats. *BioFactors*, **2007**, 30, 91-104	6.1	18
66	Effects of soy protein and isoflavone on hepatic fatty acid synthesis and oxidation and mRNA expression of uncoupling proteins and peroxisome proliferator-activated receptor gamma in adipose tissues of rats. *Journal of Nutritional Biochemistry*, **2008**, 19, 682-93	6.3	46
65	The metabolic syndrome. *Endocrine Reviews*, **2008**, 29, 777-822	27.2	1141
64	The effects of soy isoflavones on obesity. *Experimental Biology and Medicine*, **2008**, 233, 1066-80	3.7	170
63	Dietary soy protein inhibits DNA damage and cell survival of colon epithelial cells through attenuated expression of fatty acid synthase. *American Journal of Physiology - Renal Physiology*, **2008**, 294, G868-76	5.1	25
62	Soy protein intake has sex-specific effects on the risk of metabolic syndrome in middle-aged and elderly Chinese. *Journal of Nutrition*, **2008**, 138, 2413-21	4.1	29
61	Effects of a methanolic fraction of soybean seeds on the transcriptional activity of peroxisome proliferator-activated receptors (PPAR). *Brazilian Journal of Medical and Biological Research*, **2009**, 42, 545-50	2.8	9
60	Dietary soy protein reduces cardiac lipid accumulation and the ceramide concentration in high-fat diet-fed rats and ob/ob mice. *Journal of Nutrition*, **2009**, 139, 2237-43	4.1	27
59	A randomized controlled trial of the effects of flaxseed lignan complex on metabolic syndrome composite score and bone mineral in older adults. *Applied Physiology, Nutrition and Metabolism*, **2009**, 34, 89-98	3	65
58	Synthetic and natural iron chelators: therapeutic potential and clinical use. *Future Medicinal Chemistry*, **2009**, 1, 1643-70	4.1	128
57	Soya protein does not affect glycaemic control in adults with type 2 diabetes. *British Journal of Nutrition*, **2010**, 103, 412-21	3.6	25
56	Daidzein and the daidzein metabolite, equol, enhance adipocyte differentiation and PPARgamma transcriptional activity. *Journal of Nutritional Biochemistry*, **2010**, 21, 841-7	6.3	76
55	Soy protein diet alters expression of hepatic genes regulating fatty acid and thyroid hormone metabolism in the male rat. *Journal of Nutritional Biochemistry*, **2010**, 21, 1106-13	6.3	22
54	Potential health-modulating effects of isoflavones and metabolites via activation of PPAR and AhR. *Nutrients*, **2010**, 2, 241-79	6.7	47
53	Effects of soy protein on lipoprotein lipids and fecal bile acid excretion in men and women with moderate hypercholesterolemia. *Journal of Clinical Lipidology*, **2010**, 4, 531-42	4.9	32
52	Yeast Eglucosidase inhibition by isoflavones from plants of Leguminosae as an in vitro alternative to acarbose. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 9988-93	5.7	69

51	Effects of the Soybean Flour Diet on Insulin Secretion and Action. **2011**, 495-506		
50	Reduction of body weight, liver steatosis and expression of stearoyl-CoA desaturase 1 by the isoflavone daidzein in diet-induced obesity. *British Journal of Pharmacology*, **2011**, 164, 1899-915	8.6	76
49	Isoflavones reduce inflammation in 3T3-L1 adipocytes. *Food Chemistry*, **2011**, 125, 513-520	8.5	12
48	White adipose tissue genome wide-expression profiling and adipocyte metabolic functions after soy protein consumption in rats. *Journal of Nutritional Biochemistry*, **2011**, 22, 118-29	6.3	25
47	Soya protein ameliorates the metabolic abnormalities of dysfunctional adipose tissue of dyslipidaemic rats fed a sucrose-rich diet. *British Journal of Nutrition*, **2011**, 105, 1188-98	3.6	15
46	Prevention of diabetes in db/db mice by dietary soy is independent of isoflavone levels. *Endocrinology*, **2012**, 153, 5200-11	4.8	23
45	The soybean peptide aglycin regulates glucose homeostasis in type 2 diabetic mice via IR/IRS1 pathway. *Journal of Nutritional Biochemistry*, **2012**, 23, 1449-57	6.3	49
44	An insight on genistein as potential pharmacological and therapeutic agent. *Asian Pacific Journal of Tropical Biomedicine*, **2012**, 2, S1924-S1937	1.4	10
43	Effects of voluntary running and soy supplementation on diet-induced metabolic disturbance and inflammation in mice. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 9373-9	5.7	17
42	Modulation of adipose tissue inflammation by bioactive food compounds. *Journal of Nutritional Biochemistry*, **2013**, 24, 613-23	6.3	210
41	Soluble soy protein peptic hydrolysate stimulates adipocyte differentiation in 3T3-L1 cells. *Molecular Nutrition and Food Research*, **2013**, 57, 1435-45	5.9	20
40	Soy isoflavones modulate adipokines and myokines to regulate lipid metabolism in adipose tissue, skeletal muscle and liver of male Huanjiang mini-pigs. *Molecular and Cellular Endocrinology*, **2013**, 365, 44-51	4.4	33
39	Pharmacological administration of the isoflavone daidzein enhances cell proliferation and reduces high fat diet-induced apoptosis and gliosis in the rat hippocampus. *PLoS ONE*, **2013**, 8, e64750	3.7	46
38	Dietary supplementation with soy isoflavones or replacement with soy proteins prevents hepatic lipid droplet accumulation and alters expression of genes involved in lipid metabolism in rats. *Genes and Nutrition*, **2014**, 9, 373	4.3	24
37	Daidzein promotes glucose uptake through glucose transporter 4 translocation to plasma membrane in L6 myocytes and improves glucose homeostasis in Type 2 diabetic model mice. *Journal of Nutritional Biochemistry*, **2014**, 25, 136-43	6.3	68
36	Effects of Soy Flour Fortified Bread Consumption on Cardiovascular Risk Factors According to APOE Genotypes in Overweight and Obese Adult Women: A Cross-over Randomized Controlled Clinical Trial. *Clinical Nutrition Research*, **2015**, 4, 225-34	1.7	2
35	Role of phytoestrogens in prevention and management of type 2 diabetes. *World Journal of Diabetes*, **2015**, 6, 271-83	4.7	35
34	Monascus pilosus-fermented black soybean inhibits lipid accumulation in adipocytes and in high-fat diet-induced obese mice. *Asian Pacific Journal of Tropical Medicine*, **2015**, 8, 276-82	2.1	11

33	Dietary soy isoflavones differentially regulate expression of the lipid-metabolic genes in different white adipose tissues of the female Bama mini-pigs. *Biochemical and Biophysical Research Communications*, **2015**, 461, 159-64	3.4	9
32	Soy Isoflavones Regulate Lipid Metabolism through an AKT/mTORC1 Pathway in Diet-Induced Obesity (DIO) Male Rats. *Molecules*, **2016**, 21,	4.8	24
31	Soy-based renoprotection. *World Journal of Nephrology*, **2016**, 5, 233-57	3.6	22
30	A genistein-enriched diet neither improves skeletal muscle oxidative capacity nor prevents the transition towards advanced insulin resistance in ZDF rats. *Scientific Reports*, **2016**, 6, 22854	4.9	7
29	Beneficial effects of legumes on parameters of the metabolic syndrome: a systematic review of trials in animal models. *British Journal of Nutrition*, **2016**, 116, 402-24	3.6	19
28	The potential of flavonoids in the treatment of non-alcoholic fatty liver disease. *Critical Reviews in Food Science and Nutrition*, **2017**, 57, 834-855	11.5	93
27	Anti-obesity Medicinal Plants. **2017**, 59-93		2
26	Marine Peptides as Potential Agents for the Management of Type 2 Diabetes Mellitus-A Prospect. *Marine Drugs*, **2017**, 15,	6	30
25	Anti-Inflammatory and Anti-Obesity Properties of Food Bioactive Components: Effects on Adipose Tissue. *Preventive Nutrition and Food Science*, **2017**, 22, 251-262	2.4	52
24	Treatment with soy isoflavones during early adulthood improves metabolism in early postnatally overfed rats. *Nutritional Neuroscience*, **2018**, 21, 25-32	3.6	5
23	Genistein represses PEPCK-C expression in an insulin-independent manner in HepG2 cells and in alloxan-induced diabetic mice. *Journal of Cellular Biochemistry*, **2018**, 119, 1953-1970	4.7	16
22	The potential beneficial role of isoflavones in type 2 diabetes mellitus. *Nutrition Research*, **2018**, 59, 1-154		16
21	A Possible Mechanism: Genistein Improves Metabolism and Induces White Fat Browning Through Modulating Hypothalamic Expression of , and. *Frontiers in Endocrinology*, **2019**, 10, 478	5.7	10
20	Effects of the Soybean Flour Diet on Insulin Secretion and Action. **2019**, 423-434		1
19	Miso (Fermented Soybean Paste) Suppresses Visceral Fat Accumulation in Mice, Especially in Combination with Exercise. *Nutrients*, **2019**, 11,	6.7	18
18	The effect of soy products on circulating adiponectin and leptin concentration in adults: A systematic review and meta-analysis of randomised controlled trials. *International Journal of Clinical Practice*, **2021**, 75, e14100	2.9	0
17	Habitual Miso (Fermented Soybean Paste) Consumption Is Associated with Glycemic Variability in Patients with Type 2 Diabetes: A Cross-Sectional Study. *Nutrients*, **2021**, 13,	6.7	1
16	Soy Isoflavones Intake and Obesity in Chinese Adults: A Cross-Sectional Study in Shanghai, China. *Nutrients*, **2021**, 13,	6.7	1

15	The Effects of Soy Products on Cardiovascular Risk Factors in Patients with Type 2 Diabetes: A Systematic Review and Meta-analysis of Clinical Trials. *Advances in Nutrition*, **2021**,	10	2
14	Prevention and Treatment of Obesity-Related Diseases by Diet and Medicinal Plants. **2017**, 95-128		3
13	Flavonoids in adipose tissue inflammation and atherosclerosis: one arrow, two targets. *Clinical Science*, **2020**, 134, 1403-1432	6.5	16
12	A Review on Molecular Mechanism of Flavonoids as Antidiabetic Agents. *Mini-Reviews in Medicinal Chemistry*, **2019**, 19, 762-786	3.2	9
11	Habitual Miso (Fermented Soybean Paste) Consumption Is Associated with a Low Prevalence of Sarcopenia in Patients with Type 2 Diabetes: A Cross-Sectional Study. *Nutrients*, **2020**, 13,	6.7	6
10	Soy may help protect against cardiovascular disease. *California Agriculture*, **2011**, 65, 118-123	1.1	2
9	Metabolic syndrome and chronic kidney disease. *Indian Journal of Nephrology*, **2008**, 18, 1-4	0.8	9
8	Soy Protein for the Metabolic Syndrome. 67-85		
7	The renoprotective effects of soy protein in the aging rat kidney. *Medical Research Archives*, **2020**, 8,	2.1	0
6	CHAPTER 19. Calcium-Fortified Soymilk: Function and Health Benefits. *Food and Nutritional Components in Focus*, 310-328		
5	Data_Sheet_1.PDF. **2019**,		
4	Natural drugs targeting inflammation pathways can be used to treat atherosclerosis. 13,		0
3	Legume-Derived Bioactive Peptides in Type 2 Diabetes: Opportunities and Challenges. **2023**, 15, 1096		0
2	Long-Term Exposure to Isoflavones Alters the Hormonal Steroid Homeostasis-Impairing Reproductive Function in Adult Male Wistar Rats. **2023**, 15, 1261		0
1	Black and Yellow Soybean Consumption Prevents High-Fat Diet-Induced Obesity by Regulating Lipid Metabolism in C57BL/6 Mice. **2023**, 2023, 1-8		0