David C Wright

List of Publications by Year
in descending order

125 papers	5,388 citations	109321 35 h-index	91884 69 g-index
127 all docs	127 docs citations	127 times ranked	7206 citing authors

#	Article	IF	Citations
1	Intermittent cold exposure improves glucose homeostasis despite exacerbating dietâ€induced obesity in mice housed at thermoneutrality. Journal of Physiology, 2022, 600, 829-845.	2.9	9
2	CHOP is dispensable for exercise-induced increases in GDF15. Journal of Applied Physiology, 2022, 132, 413-422.	2.5	6
3	Plant and marine N3-PUFA regulation of fatty acid trafficking along the adipose tissue-liver axis varies according to nutritional state. Journal of Nutritional Biochemistry, 2022, 102, 108940.	4.2	1
4	The glucose lowering effects of CL 316,243 dissipate with repeated use and are rescued by cilostamide. Physiological Reports, 2022, 10, e15187.	1.7	8
5	Topical application of the pharmacological cold mimetic menthol stimulates brown adipose tissue thermogenesis through a TRPM8, UCP1, and norepinephrine dependent mechanism in mice housed at thermoneutrality. FASEB Journal, 2022, 36, e22205.	0.5	11
6	Fasting or the shortâ€term consumption of a ketogenic diet protects against antipsychoticâ€induced hyperglycaemia in mice. Journal of Physiology, 2022, 600, 2713-2728.	2.9	7
7	Peripheral mechanisms of acute olanzapine induced metabolic dysfunction: A review of in vivo models and treatment approaches. Behavioural Brain Research, 2021, 400, 113049.	2.2	10
8	AMPK mediates energetic stressâ€induced liver GDF15. FASEB Journal, 2021, 35, e21218.	0.5	25
9	Voluntary physical activity protects against olanzapine-induced hyperglycemia. Journal of Applied Physiology, 2021, 130, 466-478.	2.5	4
10	New Horizon: Exercise and a Focus on Tissue-Brain Crosstalk. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 2147-2163.	3.6	15
11	The confounding effects of sub-thermoneutral housing temperatures on aerobic exercise-induced adaptations in mouse subcutaneous white adipose tissue. Biology Letters, 2021, 17, 20210171.	2.3	6
12	Reactive oxygen species-dependent regulation of pyruvate dehydrogenase kinase-4 in white adipose tissue. American Journal of Physiology - Cell Physiology, 2020, 318, C137-C149.	4.6	16
13	Exercise and Dairy Protein have Distinct Effects on Indices of Liver and Systemic Lipid Metabolism. Obesity, 2020, 28, 97-105.	3.0	8
14	GLP1 receptor agonism protects against acute olanzapine-induced hyperglycemia. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E1101-E1111.	3.5	12
15	Recent advances in the role of interleukin-6 in health and disease. Current Opinion in Pharmacology, 2020, 52, 47-51.	3.5	11
16	Epinephrine responsiveness is reduced in livers from trained mice. Physiological Reports, 2020, 8, e14370.	1.7	8
17	Biochemical adaptations in white adipose tissue following aerobic exercise: from mitochondrial biogenesis to browning. Biochemical Journal, 2020, 477, 1061-1081.	3.7	17
18	Effect of Acute High-intensity Interval Exercise on Whole-body Fat Oxidation and Subcutaneous Adipose Tissue Cell Signaling in Overweight Women. International Journal of Exercise Science, 2020, 13, 554-566.	0.5	1

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19	Looking on the â€œbriteâ€•side exercise-induced browning of white adipose tissue. Pflugers Archiv European Journal of Physiology, 2019, 471, 455-465.	2.8	26
20	Housing temperature affects the acute and chronic metabolic adaptations to exercise in mice. Journal of Physiology, 2019, 597, 4581-4600.	2.9	69
21	Female mice are protected against acute olanzapine-induced hyperglycemia. Psychoneuroendocrinology, 2019, 110, 104413.	2.7	18
22	Distinct Gut Microbiota and Serum Metabolites in Response to Weight Loss Induced by Either Dairy or Exercise in a Rodent Model of Obesity. Journal of Proteome Research, 2019, 18, 3867-3875.	3.7	12
23	Deficiency of the autophagy gene ATG16L1 induces insulin resistance through KLHL9/KLHL13/CUL3-mediated IRS1 degradation. Journal of Biological Chemistry, 2019, 294, 16172-16185.	3.4	22
24	AMPK Î²1 activation suppresses antipsychoticâ€•induced hyperglycemia in mice. FASEB Journal, 2019, 33, 14010-14021.	0.5	18
25	A blend of fatty acids, organic acids, and phytochemicals induced changes in intestinal morphology and inflammatory gene expression in coccidiosis-vaccinated broiler chickens. Poultry Science, 2019, 98, 4901-4908.	3.4	12
26	High-saturated-fat diet-induced obesity causes hepatic interleukin-6 resistance via endoplasmic reticulum stress. Journal of Lipid Research, 2019, 60, 1236-1249.	4.2	32
27	Regulation of Hepatic Follistatin Expression at Rest and during Exercise in Mice. Medicine and Science in Sports and Exercise, 2019, 51, 1116-1125.	0.4	5
28	Loss of glucagon signaling alters white adipose tissue browning. FASEB Journal, 2019, 33, 4824-4835.	0.5	28
29	Acute administration of IL-6 improves indices of hepatic glucose and insulin homeostasis in lean and obese mice. American Journal of Physiology - Renal Physiology, 2019, 316, G166-G178.	3.4	23
30	Preclinical and Clinical Sex Differences in Antipsychotic-Induced Metabolic Disturbances: A Narrative Review of Adiposity and Glucose Metabolism. Journal of Psychiatry and Brain Science, 2019, 4, .	0.5	19
31	Exercise Protects Against Olanzapine-Induced Hyperglycemia in Male C57BL/6J Mice. Scientific Reports, 2018, 8, 772.	3.3	20
32	AICAR Prevents Acute Olanzapine-Induced Disturbances in Glucose Homeostasis. Journal of Pharmacology and Experimental Therapeutics, 2018, 365, 526-535.	2.5	20
33	Subcutaneous inguinal white adipose tissue is responsive to, but dispensable for, the metabolic health benefits of exercise. American Journal of Physiology - Endocrinology and Metabolism, 2018, 314, E66-E77.	3.5	43
34	Rosiglitazone is superior to resveratrol in inducing the expression of glyceroneogenic genes in adipose tissue from obese participants. Applied Physiology, Nutrition and Metabolism, 2018, 43, 307-311.	1.9	0
35	Obesity exacerbates the acute metabolic side effects of olanzapine. Psychoneuroendocrinology, 2018, 88, 121-128.	2.7	41
36	Prior exercise training improves cold tolerance independent of indices associated with nonâ€•shivering thermogenesis. Journal of Physiology, 2018, 596, 4375-4391.	2.9	21

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37	Cycling our way to fit fat. Physiological Reports, 2017, 5, e13247.	1.7	26
38	Glucagon receptor knockout mice are protected against acute olanzapine-induced hyperglycemia. Psychoneuroendocrinology, 2017, 82, 38-45.	2.7	28
39	Central-acting therapeutics alleviate respiratory weakness caused by heart failureâ€“induced ventilatory overdrive. Science Translational Medicine, 2017, 9, .	12.4	17
40	Microbiome and NAFLD: potential influence of aerobic fitness and lifestyle modification. Physiological Genomics, 2017, 49, 385-399.	2.3	31
41	CL 316, 243 mediated reductions in blood glucose are enhanced in RIP140â^'/â^' mice independent of alterations in lipolysis. Biochemical and Biophysical Research Communications, 2017, 486, 486-491.	2.1	4
42	Estradiol does not directly regulate adipose lipolysis. Adipocyte, 2017, 6, 76-86.	2.8	7
43	Habitual physical activity protects against lipopolysaccharide-induced inflammation in mouse adipose tissue. Adipocyte, 2017, 6, 1-11.	2.8	25
44	Dairy Attenuates Weight Gain to a Similar Extent as Exercise in Rats Fed a Highâ€Fat, Highâ€Sugar Diet. Obesity, 2017, 25, 1707-1715.	3.0	10
45	Alcohol extract of North American ginseng (Panax quinquefolius) reduces fatty liver, dyslipidemia, and other complications of metabolic syndrome in a mouse model. Canadian Journal of Physiology and Pharmacology, 2017, 95, 1046-1057.	1.4	12
46	Reduced SCD1 activity alters markers of fatty acid reesterification, glyceroneogenesis, and lipolysis in murine white adipose tissue and 3T3-L1 adipocytes. American Journal of Physiology - Cell Physiology, 2017, 313, C295-C304.	4.6	22
47	Proliferative endocrine effects of adipose tissue from obese animals on MCF7 cells are ameliorated by resveratrol supplementation. PLoS ONE, 2017, 12, e0183897.	2.5	8
48	Statin Therapy Alters Lipid Storage in Diabetic Skeletal Muscle. Frontiers in Endocrinology, 2016, 7, 95.	3.5	4
49	Postprandial control of fatty acid transport proteinsâ€™ subcellular location is not dependent on insulin. FEBS Letters, 2016, 590, 2661-2670.	2.8	8
50	Dietary Î±-linolenic acid supplementation alters skeletal muscle plasma membrane lipid composition, sarcolemmal FAT/CD36 abundance, and palmitate transport rates. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R1234-R1242.	1.8	25
51	Beneficial effects of combined resveratrol and metformin therapy in treating dietâ€induced insulin resistance. Physiological Reports, 2016, 4, e12877.	1.7	32
52	Challenging dogma: is hepatic lipid accumulation in type 2 diabetes due to mitochondrial dysfunction?. Journal of Physiology, 2016, 594, 4093-4094.	2.9	1
53	â€œWeighingâ€•the effects of exercise and intrinsic aerobic capacity: are there beneficial effects independent of changes in weight?. Applied Physiology, Nutrition and Metabolism, 2016, 41, 911-916.	1.9	19
54	Prior exercise training blunts short-term high-fat diet-induced weight gain. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R315-R324.	1.8	13

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55	Reduced ATGL-mediated lipolysis attenuates Î²-adrenergic-induced AMPK signaling, but not the induction of PKA-targeted genes, in adipocytes and adipose tissue. American Journal of Physiology - Cell Physiology, 2016, 311, C269-C276.	4.6	25
56	Sarcolipin knockout mice fed a highâ€fat diet exhibit altered indices of adipose tissue inflammation and remodeling. Obesity, 2016, 24, 1499-1505.	3.0	18
57	Voluntary wheel running attenuates lipopolysaccharide-induced liver inflammation in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R934-R942.	1.8	25
58	North American ginseng influences adipocyteâ€“macrophage crosstalk regulation of inflammatory gene expression. Journal of Ginseng Research, 2016, 40, 141-150.	5.7	8
59	Combined highâ€fatâ€resveratrol diet and RIP140 knockout mice reveal a novel relationship between elevated bone mitochondrial content and compromised bone microarchitecture, bone mineral mass, and bone strength in the tibia. Molecular Nutrition and Food Research, 2016, 60, 1994-2007.	3.3	12
60	Hyperactive mTORC1 signaling is unaffected by metformin treatment in aged skeletal muscle. Muscle and Nerve, 2016, 53, 107-117.	2.2	9
61	The contribution of IL-6 to beta 3 adrenergic receptor mediated adipose tissue remodeling. Physiological Reports, 2015, 3, e12312.	1.7	18
62	Feeding butter with elevated content of trans-10, cis-12 conjugated linoleic acid to obese-prone rats impairs glucose and insulin tolerance. Lipids in Health and Disease, 2015, 14, 119.	3.0	7
63	Adipose tissue mitochondrial respiration: Key insights from <scp>RYGB</scp>â€induced weight loss. Obesity, 2015, 23, 1941-1941.	3.0	0
64	Adipose Tissue Insulin Action and IL-6 Signaling after Exercise in Obese Mice. Medicine and Science in Sports and Exercise, 2015, 47, 2034-2042.	0.4	48
65	Dietary Mannoheptulose Does Not Significantly Alter Daily Energy Expenditure in Adult Labrador Retrievers. PLoS ONE, 2015, 10, e0143324.	2.5	10
66	Exercise-mediated IL-6 signaling occurs independent of inflammation and is amplified by training in mouse adipose tissue. Journal of Applied Physiology, 2015, 119, 1347-1354.	2.5	17
67	Heat shock proteins: in vivo heat treatments reveal adipose tissue depot-specific effects. Journal of Applied Physiology, 2015, 118, 98-106.	2.5	23
68	Extremely rapid increase in fatty acid transport and intramyocellular lipid accumulation but markedly delayed insulin resistance after high fat feeding in rats. Diabetologia, 2015, 58, 2381-2391.	6.3	62
69	Respiratory muscle weakness in the Zucker diabetic fatty rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R780-R787.	1.8	11
70	Glucose-dependent insulinotropic polypeptide directly induces glucose transport in rat skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R295-R303.	1.8	9
71	Short-Term Disruption of Diurnal Rhythms After Murine Myocardial Infarction Adversely Affects Long-Term Myocardial Structure and Function. Circulation Research, 2014, 114, 1713-1722.	4.5	95
72	Exercise training protects against an acute inflammatory insult in mouse epididymal adipose tissue. Journal of Applied Physiology, 2014, 116, 1272-1280.	2.5	37

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73	Aging-Associated Reductions in Lipolytic and Mitochondrial Proteins in Mouse Adipose Tissue Are Not Rescued by Metformin Treatment. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1060-1068.	3.6	35
74	Evidence for fatty acids mediating CL 316,243-induced reductions in blood glucose in mice. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E563-E570.	3.5	37
75	Adiponectin is not required for exercise training-induced improvements in glucose and insulin tolerance in mice. Physiological Reports, 2014, 2, e12146.	1.7	6
76	Exercise- and resveratrol-mediated alterations in adipose tissue metabolism. Applied Physiology, Nutrition and Metabolism, 2014, 39, 109-116.	1.9	6
77	Lack of REDD1 reduces whole body glucose and insulin tolerance, and impairs skeletal muscle insulin signaling. Biochemical and Biophysical Research Communications, 2014, 453, 778-783.	2.1	26
78	The day/night proteome in the murine heart. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R121-R137.	1.8	69
79	Evidence for the role of AMPK in regulating PGCâ€1 alpha expression and mitochondrial proteins in mouse epididymal adipose tissue. Obesity, 2014, 22, 730-738.	3.0	129
80	Feeding butter with elevated content of trans-10, cis-12 conjugated linoleic acid to lean rats does not impair glucose tolerance or muscle insulin response. Lipids in Health and Disease, 2014, 13, 101.	3.0	2
81	Adiponectin is sufficient, but not required, for exerciseâ€induced increases in the expression of skeletal muscle mitochondrial enzymes. Journal of Physiology, 2014, 592, 2653-2665.	2.9	14
82	Novel effects of rosiglitazone on SMAD2 and SMAD3 signaling in white adipose tissue of diabetic rats. Obesity, 2014, 22, 1632-1642.	3.0	11
83	Impairments in mitochondrial palmitoylâ€CoA respiratory kinetics that precede development of diabetic cardiomyopathy are prevented by resveratrol in ZDF rats. Journal of Physiology, 2014, 592, 2519-2533.	2.9	44
84	Changes in mechanisms proposed to mediate fat loss following an acute bout of high-intensity interval and endurance exercise. Applied Physiology, Nutrition and Metabolism, 2013, 38, 1236-1244.	1.9	66
85	IL-6 and epinephrine have divergent fiber type effects on intramuscular lipolysis. Journal of Applied Physiology, 2013, 115, 1457-1463.	2.5	10
86	Enhanced glucose homeostasis in BHE/cdb rats with mutated ATP synthase. Mitochondrion, 2013, 13, 320-329.	3.4	0
87	IL-6 is not essential for exercise-induced increases in glucose uptake. Journal of Applied Physiology, 2013, 114, 1151-1157.	2.5	16
88	FAT/CD36 regulates PEPCK expression in adipose tissue. American Journal of Physiology - Cell Physiology, 2013, 304, C478-C484.	4.6	21
89	Submaximal ADPâ€stimulated respiration is impaired in ZDF rats and recovered by resveratrol. Journal of Physiology, 2013, 591, 6089-6101.	2.9	32
90	Resveratrol supplementation improves white adipose tissue function in a depot-specific manner in Zucker diabetic fatty rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R542-R551.	1.8	64

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91	Identification of a novel malonyl-CoA IC50 for CPT-I: implications for predicting inÂvivo fatty acid oxidation rates. Biochemical Journal, 2012, 448, 13-20.	3.7	36
92	Exercise restores insulin, but not adiponectin, response in skeletal muscle of high-fat fed rodents. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R1062-R1070.	1.8	12
93	Dietary supplementation with vitamin E and C attenuates dexamethasone-induced glucose intolerance in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R49-R58.	1.8	20
94	Epinephrine Induces PDK4 mRNA Expression in Adipose Tissue From Obese, Insulin Resistant Rats. Obesity, 2012, 20, 453-456.	3.0	14
95	Epinephrine and AICAR-induced PGC-1Î± mRNA expression is intact in skeletal muscle from rats fed a high-fat diet. American Journal of Physiology - Cell Physiology, 2012, 302, C1772-C1779.	4.6	19
96	Mitochondrial creatine kinase activity and phosphate shuttling are acutely regulated by exercise in human skeletal muscle. Journal of Physiology, 2012, 590, 5475-5486.	2.9	65
97	IL-6 Indirectly Modulates the Induction of Glyceroneogenic Enzymes in Adipose Tissue during Exercise. PLoS ONE, 2012, 7, e41719.	2.5	40
98	IL-6 Is Not Necessary for the Regulation of Adipose Tissue Mitochondrial Content. PLoS ONE, 2012, 7, e51233.	2.5	22
99	Skeletal muscle and beyond: the role of exercise as a mediator of systemic mitochondrial biogenesis. Applied Physiology, Nutrition and Metabolism, 2011, 36, 598-607.	1.9	56
100	The effects of glucocorticoids on adipose tissue lipid metabolism. Metabolism: Clinical and Experimental, 2011, 60, 1500-1510.	3.4	403
101	Reductions in RIP140 are not required for exercise- and AICAR-mediated increases in skeletal muscle mitochondrial content. Journal of Applied Physiology, 2011, 111, 688-695.	2.5	18
102	Interactions between the consumption of a high-fat diet and fasting in the regulation of fatty acid oxidation enzyme gene expression: an evaluation of potential mechanisms. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R212-R221.	1.8	36
103	Increased hypolipidemic benefits of cis-9, trans-11 conjugated linoleic acid in combination with trans-11 vaccenic acid in a rodent model of the metabolic syndrome, the JCR:LA-cp rat. Nutrition and Metabolism, 2010, 7, 60.	3.0	39
104	Epinephrine-mediated regulation of PDK4 mRNA in rat adipose tissue. American Journal of Physiology - Cell Physiology, 2010, 299, C1162-C1170.	4.6	41
105	Adiponectin resistance precedes the accumulation of skeletal muscle lipids and insulin resistance in high-fat-fed rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R243-R251.	1.8	116
106	Muscle-specific differences in the response of mitochondrial proteins to Î²-GPA feeding: an evaluation of potential mechanisms. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E1400-E1408.	3.5	35
107	The effects of apelin treatment on skeletal muscle mitochondrial content. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1761-R1768.	1.8	52
108	Trans-11 Vaccenic Acid Reduces Hepatic Lipogenesis and Chylomicron Secretion in JCR:LA-cp Rats. Journal of Nutrition, 2009, 139, 2049-2054.	2.9	59

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109	Exercise and adrenaline increase PGCâ€1Î± mRNA expression in rat adipose tissue. Journal of Physiology, 2009, 587, 1607-1617.	2.9	180
110	PGC-1Î±-mediated regulation of gene expression and metabolism: implications for nutrition and exercise prescriptions. Applied Physiology, Nutrition and Metabolism, 2008, 33, 843-862.	1.9	70
111	Antioxidant supplemention in the treatment of skeletal muscle insulin resistance: potential mechanisms and clinical relevance. Applied Physiology, Nutrition and Metabolism, 2008, 33, 21-31.	1.9	20
112	Time course of high-fat diet-induced reductions in adipose tissue mitochondrial proteins: potential mechanisms and the relationship to glucose intolerance. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E1076-E1083.	3.5	119
113	Palmitate acutely induces insulin resistance in isolated muscle from obese but not lean humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1205-R1212.	1.8	27
114	High-fat diets cause insulin resistance despite an increase in muscle mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7815-7820.	7.1	466
115	Exercise-induced Mitochondrial Biogenesis Begins before the Increase in Muscle PGC-1Î± Expression. Journal of Biological Chemistry, 2007, 282, 194-199.	3.4	406
116	Calcium Induces Increases in Peroxisome Proliferator-activated Receptor Î³ Coactivator-1Î± and Mitochondrial Biogenesis by a Pathway Leading to p38 Mitogen-activated Protein Kinase Activation. Journal of Biological Chemistry, 2007, 282, 18793-18799.	3.4	252
117	IL-6 increases muscle insulin sensitivity only at superphysiological levels. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1842-E1846.	3.5	31
118	Mechanisms of calcium-induced mitochondrial biogenesis and GLUT4 synthesis. Applied Physiology, Nutrition and Metabolism, 2007, 32, 840-845.	1.9	58
119	Are tyrosine kinases involved in mediating contraction-stimulated muscle glucose transport?. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E123-E128.	3.5	16
120	How muscle insulin sensitivity is regulated: testing of a hypothesis. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E1258-E1263.	3.5	57
121	Lipid metabolism response to a single, prolonged bout of endurance exercise in healthy young men. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E355-E362.	3.5	105
122	Contraction- and hypoxia-stimulated glucose transport is mediated by a Ca²⁺-dependent mechanism in slow-twitch rat soleus muscle. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E1062-E1066.	3.5	112
123	Activation of p38 MAP kinase enhances sensitivity of muscle glucose transport to insulin. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E782-E788.	3.5	125
124	Phorbol esters affect skeletal muscle glucose transport in a fiber type-specific manner. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E305-E309.	3.5	14
125	Ca2+ and AMPK Both Mediate Stimulation of Glucose Transport by Muscle Contractions. Diabetes, 2004, 53, 330-335.	0.6	329