

# Mustafa Atalay

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

11,933  
citations

71102

41  
h-index

29157

104  
g-index

113  
all docs

113  
docs citations

113  
times ranked

21667  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. <i>Nature Genetics</i> , 2012, 44, 981-990.	21.4	1,748
2	Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. <i>Nature Genetics</i> , 2014, 46, 234-244.	21.4	959
3	A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. <i>Nature Genetics</i> , 2012, 44, 659-669.	21.4	762
4	Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. <i>Nature Genetics</i> , 2012, 44, 991-1005.	21.4	746
5	Genome-wide meta-analysis identifies 11 new loci for anthropometric traits and provides insights into genetic architecture. <i>Nature Genetics</i> , 2013, 45, 501-512.	21.4	578
6	Oxygen Consumption and Usage During Physical Exercise: The Balance Between Oxidative Stress and ROS-Dependent Adaptive Signaling. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1208-1246.	5.4	457
7	Physical Activity Attenuates the Influence of FTO Variants on Obesity Risk: A Meta-Analysis of 218,166 Adults and 19,268 Children. <i>PLoS Medicine</i> , 2011, 8, e1001116.	8.4	446
8	Chemistry and biochemistry of lipid peroxidation products. <i>Free Radical Research</i> , 2010, 44, 1098-1124.	3.3	425
9	Genome-wide associations for birth weight and correlations with adult disease. <i>Nature</i> , 2016, 538, 248-252.	27.8	406
10	Maternal and fetal genetic effects on birth weight and their relevance to cardio-metabolic risk factors. <i>Nature Genetics</i> , 2019, 51, 804-814.	21.4	402
11	Sex-stratified Genome-wide Association Studies Including 270,000 Individuals Show Sexual Dimorphism in Genetic Loci for Anthropometric Traits. <i>PLoS Genetics</i> , 2013, 9, e1003500.	3.5	371
12	Genome-wide association analysis identifies three new susceptibility loci for childhood body mass index. <i>Human Molecular Genetics</i> , 2016, 25, 389-403.	2.9	275
13	Anti-angiogenic, Antioxidant, and Anti-carcinogenic Properties of a Novel Anthocyanin-Rich Berry Extract Formula. <i>Biochemistry (Moscow)</i> , 2004, 69, 75-80.	1.5	263
14	Exercise Plays a Preventive Role Against Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 20, 777-783.	2.6	252
15	Life-Course Genome-wide Association Study Meta-analysis of Total Body BMD and Assessment of Age-Specific Effects. <i>American Journal of Human Genetics</i> , 2018, 102, 88-102.	6.2	252
16	Exercise alters SIRT1, SIRT6, NAD and NAMPT levels in skeletal muscle of aged rats. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 21-28.	4.6	230
17	Exercise training modulates heat shock protein response in diabetic rats. <i>Journal of Applied Physiology</i> , 2004, 97, 605-611.	2.5	168
18	Heat Shock Proteins in Diabetes and Wound Healing. <i>Current Protein and Peptide Science</i> , 2009, 10, 85-95.	1.4	118

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19	Cortical spreading depression induces oxidative stress in the trigeminal nociceptive system. <i>Neuroscience</i> , 2013, 253, 341-349.	2.3	117
20	A novel common variant in DCST2 is associated with length in early life and height in adulthood. <i>Human Molecular Genetics</i> , 2015, 24, 1155-1168.	2.9	109
21	Validation of protein carbonyl measurement: A multi-centre study. <i>Redox Biology</i> , 2015, 4, 149-157.	9.0	102
22	Inflammation markers are modulated by responses to diets differing in postprandial insulin responses in individuals with the metabolic syndrome. <i>American Journal of Clinical Nutrition</i> , 2008, 87, 1497-1503.	4.7	91
23	Altered oxidative stress in overtrained athletes. <i>Journal of Sports Sciences</i> , 2010, 28, 309-317.	2.0	89
24	Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress. <i>Redox Biology</i> , 2014, 3, 25-28.	9.0	86
25	Effect of weight loss on cytokine messenger RNA expression in peripheral blood mononuclear cells of obese subjects with the metabolic syndrome. <i>Metabolism: Clinical and Experimental</i> , 2008, 57, 192-199.	3.4	85
26	Diabetes, oxidative stress and physical exercise. <i>Journal of Sports Science and Medicine</i> , 2002, 1, 1-14.	1.6	77
27	Î±-Lipoic acid supplementation: tissue glutathione homeostasis at rest and after exercise. <i>Journal of Applied Physiology</i> , 1999, 86, 1191-1196.	2.5	76
28	A trans-ancestral meta-analysis of genome-wide association studies reveals loci associated with childhood obesity. <i>Human Molecular Genetics</i> , 2019, 28, 3327-3338.	2.9	76
29	Fish oil and vitamin E supplementation in oxidative stress at rest and after physical exercise. <i>Journal of Applied Physiology</i> , 1997, 83, 189-195.	2.5	70
30	Skeletal muscle and heart antioxidant defences in response to sprint training. <i>Acta Physiologica Scandinavica</i> , 1996, 158, 129-134.	2.2	67
31	Altered antioxidant enzyme defences in insulin-dependent diabetic men with increased resting and exercise-induced oxidative stress. <i>Acta Physiologica Scandinavica</i> , 1997, 161, 195-201.	2.2	66
32	Effects of endurance training on tissue glutathione homeostasis and lipid peroxidation in streptozotocin-induced diabetic rats. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2002, 12, 163-170.	2.9	61
33	Decline in cellular clearance systems induces inflammasome signaling in human ARPE-19 cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 3038-3046.	4.1	60
34	Nordic walking decreased circulating chemerin and leptin concentrations in middle-aged men with impaired glucose regulation. <i>Annals of Medicine</i> , 2013, 45, 162-170.	3.8	59
35	Downregulation of genes involved in NFÎ±B activation in peripheral blood mononuclear cells after weight loss is associated with the improvement of insulin sensitivity in individuals with the metabolic syndrome: the GENOBIN study. <i>Diabetologia</i> , 2008, 51, 2060-2067.	6.3	57
36	An inter-laboratory validation of methods of lipid peroxidation measurement in UVA-treated human plasma samples. <i>Free Radical Research</i> , 2010, 44, 1203-1215.	3.3	56

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37	Serum Sex Hormoneâ€“Binding Globulin and Cortisol Concentrations are Associated With Overreaching During Strenuous Military Training. <i>Journal of Strength and Conditioning Research</i> , 2011, 25, 787-797.	2.1	55
38	Diabetes impairs exercise training-associated thioredoxin response and glutathione status in rat brain. <i>Journal of Applied Physiology</i> , 2009, 106, 461-467.	2.5	52
39	Exercise-induced oxidative stress and muscle stress protein responses in trotters. <i>European Journal of Applied Physiology</i> , 2005, 93, 496-501.	2.5	51
40	Exercise improves import of 8-oxoguanine DNA glycosylase into the mitochondrial matrix of skeletal muscle and enhances the relative activity. <i>Free Radical Biology and Medicine</i> , 2009, 46, 238-243.	2.9	48
41	The effect of fatty or lean fish intake on inflammatory gene expression in peripheral blood mononuclear cells of patients with coronary heart disease. <i>European Journal of Nutrition</i> , 2009, 48, 447-455.	3.9	47
42	Piperine: Old Spice and New Nutraceutical?. <i>Current Pharmaceutical Design</i> , 2019, 25, 1729-1739.	1.9	45
43	The beneficial effects of nettle supplementation and exercise on brain lesion and memory in rat. <i>Journal of Nutritional Biochemistry</i> , 2009, 20, 974-981.	4.2	43
44	Heat shock protein 60 response to exercise in diabetes. <i>Journal of Diabetes and Its Complications</i> , 2006, 20, 257-261.	2.3	42
45	A key angiogenic role of monocyte chemoattractant protein-1 in hemangi endothelioma proliferation. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C866-C873.	4.6	41
46	Dietary Antioxidants for the Athlete. <i>Current Sports Medicine Reports</i> , 2006, 5, 182-186.	1.2	41
47	Association of MBOAT7 gene variant with plasma ALT levels in children: the PANIC study. <i>Pediatric Research</i> , 2016, 80, 651-655.	2.3	41
48	Physical Exercise and Antioxidant Defenses in the Heart. <i>Annals of the New York Academy of Sciences</i> , 1999, 874, 169-177.	3.8	40
49	Oxygen radical absorbance capacity (ORAC) and exercise-induced oxidative stress in trotters. <i>European Journal of Applied Physiology</i> , 2005, 95, 550-556.	2.5	39
50	The Effects of Chromium Picolinate and Chromium Histidinate Administration on NF-Î²B and Nrf2/HO-1 Pathway in the Brain of Diabetic Rats. <i>Biological Trace Element Research</i> , 2012, 150, 291-296.	3.5	38
51	Body fat mass, lean body mass and associated biomarkers as determinants of bone mineral density in children 6â€“8 years of age â€“ The Physical Activity and Nutrition in Children (PANIC) study. <i>Bone</i> , 2018, 108, 106-114.	2.9	37
52	Maternal and fetal genetic contribution to gestational weight gain. <i>International Journal of Obesity</i> , 2018, 42, 775-784.	3.4	36
53	Glutathione-dependent modulation of exhausting exercise-induced changes in neutrophil function of rats. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1996, 74, 342-347.	1.2	34
54	Chromium picolinate and chromium histidinate protects against renal dysfunction by modulation of NF-Î²B pathway in high-fat diet fed and Streptozotocin-induced diabetic rats. <i>Nutrition and Metabolism</i> , 2012, 9, 30.	3.0	34

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55	Expression of ghrelin gene in peripheral blood mononuclear cells and plasma ghrelin concentrations in patients with metabolic syndrome.. <i>European Journal of Endocrinology</i> , 2008, 158, 499-510.	3.7	33
56	Association of Military Training with Oxidative Stress and Overreaching. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 1552-1560.	0.4	33
57	Alpha-Lipoic Acid Modulates Heat Shock Factor-1 Expression in Streptozotocin-Induced Diabetic Rat Kidney. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 497-506.	5.4	32
58	Effects of Prolonged Dietary Curcumin Exposure on Skeletal Muscle Biochemical and Functional Responses of Aged Male Rats. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1178.	4.1	32
59	Markers of absorption and synthesis of cholesterol in men with type 1 diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2007, 23, 372-377.	4.0	29
60	12 Weeks™ aerobic and resistance training without dietary intervention did not influence oxidative stress but aerobic training decreased atherogenic index in middle-aged men with impaired glucose regulation. <i>Food and Chemical Toxicology</i> , 2013, 61, 127-135.	3.6	29
61	Effects of prolonged exercise on oxidative stress and antioxidant defense in endurance horse. <i>Journal of Sports Science and Medicine</i> , 2005, 4, 415-21.	1.6	29
62	The effects of some Mannich bases on heat shock proteins HSC70 and GRP75, and thioredoxin and glutaredoxin levels in Jurkat cells. <i>Toxicology in Vitro</i> , 2005, 19, 573-580.	2.4	27
63	Effects of muscular dystrophy, exercise and blocking activin receptor IIB ligands on the unfolded protein response and oxidative stress. <i>Free Radical Biology and Medicine</i> , 2016, 99, 308-322.	2.9	27
64	±-Lipoic acid modulates thiol antioxidant defences and attenuates exercise-induced oxidative stress in standardbred trotters. <i>Free Radical Research</i> , 2009, 43, 697-705.	3.3	26
65	Radicicol but not geldanamycin evokes oxidative stress response and efflux protein inhibition in ARPE-19 human retinal pigment epithelial cells. <i>European Journal of Pharmacology</i> , 2008, 584, 229-236.	3.5	24
66	Heart rate variability in trotters during different training periods. <i>Equine Veterinary Journal</i> , 2006, 38, 214-217.	1.7	23
67	Plasma irisin is increased following 12 weeks of Nordic walking and associates with glucose homeostasis in overweight/obese men with impaired glucose regulation. <i>European Journal of Sport Science</i> , 2019, 19, 258-266.	2.7	23
68	Associations of 148M variant in PNPLA3 gene with plasma ALT levels during 2-year follow-up in normal weight and overweight children: the PANIC Study. <i>Pediatric Obesity</i> , 2015, 10, 84-90.	2.8	22
69	Abdominal adiposity and cardiometabolic risk factors in children and adolescents: a Mendelian randomization analysis. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 1079-1087.	4.7	22
70	A 2-year physical activity and dietary intervention attenuates the increase in insulin resistance in a general population of children: the PANIC study. <i>Diabetologia</i> , 2020, 63, 2270-2281.	6.3	22
71	±-Lipoic acid supplementation enhances heat shock protein production and decreases post exercise lactic acid concentrations in exercised standardbred trotters. <i>Research in Veterinary Science</i> , 2009, 87, 462-467.	1.9	21
72	Long-Term Exercise Protects against Cellular Stresses in Aged Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-10.	4.0	21

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73	Cytotoxic activity of 4â€²-hydroxychalcone derivatives against Jurkat cells and their effects on mammalian DNA topoisomerase I. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009, 24, 804-807.	5.2	20
74	Effects of Easy-to-Use Protein-Rich Energy Bar on Energy Balance, Physical Activity and Performance during 8 Days of Sustained Physical Exertion. <i>PLoS ONE</i> , 2012, 7, e47771.	2.5	20
75	Changes in cytokines, leptin, and IGF-1 levels in overtrained athletes during a prolonged recovery phase: A case-control study. <i>Journal of Sports Sciences</i> , 2017, 35, 2342-2349.	2.0	20
76	Synthesis of some Mannich bases with dimethylamine and their hydrazones and evaluation of their cytotoxicity against Jurkat cells. <i>Arzneimittelforschung</i> , 2011, 61, 366-371.	0.4	19
77	The 148 M allele of the PNPLA3 is associated with plasma irisin levels in a population sample of Caucasian children: The PANIC Study. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 793-796.	3.4	19
78	Association of plasma fatty acid composition with plasma irisin levels in normal weight and overweight/obese children. <i>Pediatric Obesity</i> , 2016, 11, 299-305.	2.8	17
79	Exercise training with dietary counselling increases mitochondrial chaperone expression in middle-aged subjects with impaired glucose tolerance. <i>BMC Endocrine Disorders</i> , 2008, 8, 3.	2.2	16
80	Genetic variations of leptin and leptin receptor are associated with body composition changes in response to physical training. <i>Cell Biochemistry and Function</i> , 2010, 28, 306-312.	2.9	16
81	Impact of Wheat Aleurone Structure on Metabolic Disorders Caused by a High-Fat Diet in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 10101-10109.	5.2	16
82	Exercise training and experimental diabetes modulate heat shock protein response in brain. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010, 20, 83-89.	2.9	14
83	Common Genetic Variation in the IGF1 Associates with Maximal Force Output. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 2368-2374.	0.4	14
84	Elevated concentration of oxidized LDL together with poor cardiorespiratory and abdominal muscle fitness predicts metabolic syndrome in young men. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 992-999.	3.4	14
85	Decreased Thioredoxin-1 and Increased HSP90 Expression in Skeletal Muscle in Subjects with Type 2 Diabetes or Impaired Glucose Tolerance. <i>BioMed Research International</i> , 2014, 2014, 1-6.	1.9	14
86	Associations of TM6SF2 167K allele with liver enzymes and lipid profile in children: the PANIC Study. <i>Pediatric Research</i> , 2016, 79, 684-688.	2.3	14
87	Genetic predisposition to adiposity is associated with increased objectively assessed sedentary time in young children. <i>International Journal of Obesity</i> , 2018, 42, 111-114.	3.4	14
88	Endurance training and glutathione-dependent antioxidant defense mechanism in heart of the diabetic rats. <i>Journal of Sports Science and Medicine</i> , 2003, 2, 52-61.	1.6	14
89	Associations of physical activity, sedentary time, and diet quality with biomarkers of inflammation in children. <i>European Journal of Sport Science</i> , 2022, 22, 906-915.	2.7	13
90	The effects of cocoa supplementation, caloric restriction, and regular exercise, on oxidative stress markers of brain and memory in the rat model. <i>Food and Chemical Toxicology</i> , 2013, 61, 36-41.	3.6	12

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91	Age-dependent action of reactive oxygen species on transmitter release in mammalian neuromuscular junctions. <i>Neurobiology of Aging</i> , 2016, 38, 73-81.	3.1	12
92	Heat Shock Preconditioning Induces Protein Carbonylation and Alters Antioxidant Protection in Superficially Injured Guinea Pig Gastric Mucosa In Vitro. <i>Digestive Diseases and Sciences</i> , 2007, 52, 1897-1905.	2.3	11
93	Suppressed heat shock protein response in the kidney of exercise-trained diabetic rats. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 1808-1817.	2.9	11
94	Cytotoxicity of 1-Aryl-3-butylamino-1-propanone Hydrochlorides against Jurkat and L6 Cells. <i>Arzneimittelforschung</i> , 2009, 59, 364-369.	0.4	10
95	Acute Exercise and Thioredoxin-1 in Rat Brain, and Alpha-Lipoic Acid and Thioredoxin-Interacting Protein Response, in Diabetes. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2010, 20, 206-215.	2.1	10
96	Treatments with sodium selenate or doxycycline offset diabetes-induced perturbations of thioredoxin-1 levels and antioxidant capacity. <i>Molecular and Cellular Biochemistry</i> , 2011, 351, 125-131.	3.1	8
97	Activin Receptor Ligand Blocking and Cancer Have Distinct Effects on Protein and Redox Homeostasis in Skeletal Muscle and Liver. <i>Frontiers in Physiology</i> , 2019, 9, 1917.	2.8	8
98	Aerobic Fitness Does Not Modify the Effect of FTO Variation on Body Composition Traits. <i>PLoS ONE</i> , 2012, 7, e51635.	2.5	8
99	Skeletal muscle and liver lipoyllysine content in response to exercise, training and dietary lipoic acid supplementation. <i>IUBMB Life</i> , 1998, 46, 297-306.	3.4	7
100	Postconditioning and Remote Postconditioning of Ischemic Rat Cardiac Grafts. <i>European Surgical Research</i> , 2010, 45, 1-8.	1.3	7
101	Skeletal Muscle HSP Expression in Response to Immobilization and Remobilization. <i>International Journal of Sports Medicine</i> , 2007, 28, 281-286.	1.7	6
102	The effects of a 2-year physical activity and dietary intervention on plasma lipid concentrations in children: the PANIC Study. <i>European Journal of Nutrition</i> , 2021, 60, 425-434.	3.9	6
103	A common variation in the promoter region of interleukin-6 gene shows association with exercise performance. <i>Journal of Sports Science and Medicine</i> , 2009, 8, 271-7.	1.6	6
104	Recovery from immobilisation: responses of fast-twitch muscle fibres to spontaneous and intensive exercise in rat calf muscles. <i>Pathophysiology</i> , 2004, 11, 17-22.	2.2	5
105	Antireflux surgery and esophageal mucosal DNA damage. <i>Pathophysiology</i> , 2006, 13, 23-27.	2.2	5
106	Time-of-day effects during acute isokinetic exhaustive eccentric exercise: Serum leptin response. <i>Isokinetics and Exercise Science</i> , 2009, 17, 19-25.	0.4	5
107	Genetic predisposition to higher body fat yet lower cardiometabolic risk in children and adolescents. <i>International Journal of Obesity</i> , 2019, 43, 2007-2016.	3.4	5
108	Immuno-spin trapping detection of antioxidant/pro-oxidant properties of zinc or selenium on DNA and protein radical formation via hydrogen peroxide. <i>Molecular and Cellular Biochemistry</i> , 2015, 409, 23-31.	3.1	4

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109	Functional and biochemical responses of skeletal muscle following a moderate degree of systemic iron loading in mice. <i>Journal of Applied Physiology</i> , 2019, 126, 799-809.	2.5	4
110	Effects of military training on plasma amino acid concentrations and their associations with overreaching. <i>Experimental Biology and Medicine</i> , 2020, 245, 1029-1038.	2.4	3
111	Alpha-lipoic acid does not alter stress protein response to acute exercise in diabetic brain. <i>Cell Biochemistry and Function</i> , 2010, 28, 644-650.	2.9	2
112	Plasma irisin and its associations with oxidative stress in athletes suffering from overtraining syndrome. <i>Physiology International</i> , 2021, 107, 513-526.	1.6	2
113	Glutathione-dependent modulation of exhausting exercise-induced changes in neutrophil function of rats. <i>European Journal of Applied Physiology</i> , 1996, 74, 342-347.	2.5	1