

Heikki Kainulainen

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

3,404
citations

147801

31
h-index

161849

54
g-index

113
all docs

113
docs citations

113
times ranked

5984
citing authors

#	ARTICLE	IF	CITATIONS
1	Branched-Chain Amino Acid Deprivation Decreases Lipid Oxidation and Lipogenesis in C2C12 Myotubes. <i>Metabolites</i> , 2022, 12, 328.	2.9	7
2	Enlarged PLIN5-uncoated lipid droplets in inner regions of skeletal muscle type II fibers associate with type 2 diabetes. <i>Acta Histochemica</i> , 2022, 124, 151869.	1.8	3
3	A collagen extraction and deuterium oxide stable isotope tracer method for the quantification of bone collagen synthesis rates <i>in vivo</i> . <i>Physiological Reports</i> , 2021, 9, e14799.	1.7	2
4	Interactive effects of aging and aerobic capacity on energy metabolism—related metabolites of serum, skeletal muscle, and white adipose tissue. <i>GeroScience</i> , 2021, 43, 2679-2691.	4.6	8
5	Rats with elevated genetic risk for metabolic syndrome exhibit cognitive deficiencies when young. <i>Physiology and Behavior</i> , 2021, 236, 113417.	2.1	3
6	Higher glucose availability augments the metabolic responses of the C2C12 myotubes to exercise-like electrical pulse stimulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 321, E229-E245.	3.5	9
7	Rats bred for low intrinsic aerobic exercise capacity link obesity with brain inflammation and reduced structural plasticity of the hippocampus. <i>Brain, Behavior, and Immunity</i> , 2021, 97, 250-259.	4.1	6
8	Striated muscle-specific serine/threonine-protein kinase beta segregates with high versus low responsiveness to endurance exercise training. <i>Physiological Genomics</i> , 2020, 52, 35-46.	2.3	17
9	Effects of aerobic and strength training on aerobic capacity, muscle strength, and gene expression of lymphomonocytes in patients with stable CAD. <i>American Journal of Translational Research (discontinued)</i> , 2020, 12, 4582-4593.	0.0	1
10	Beneficial effects of running and milk protein supplements on Sirtuins and risk factors of metabolic disorders in rats with low aerobic capacity. <i>Metabolism Open</i> , 2019, 4, 100019.	2.9	6
11	Fat oxidation at rest and during exercise in male monozygotic twins. <i>European Journal of Applied Physiology</i> , 2019, 119, 2711-2722.	2.5	7
12	Associations of Aerobic Fitness and Maximal Muscular Strength With Metabolites in Young Men. <i>JAMA Network Open</i> , 2019, 2, e198265.	5.9	30
13	Strength Training Improves Metabolic Health Markers in Older Individual Regardless of Training Frequency. <i>Frontiers in Physiology</i> , 2019, 10, 32.	2.8	46
14	Physiological adaptations to resistance training in rats selectively bred for low and high response to aerobic exercise training. <i>Experimental Physiology</i> , 2018, 103, 1513-1523.	2.0	12
15	Corrected whole blood biomarkers - the equation of Dill and Costill revisited. <i>Physiological Reports</i> , 2018, 6, e13749.	1.7	26
16	Enterobacter cloacae administration induces hepatic damage and subcutaneous fat accumulation in high-fat diet fed mice. <i>PLoS ONE</i> , 2018, 13, e0198262.	2.5	22
17	PO-201 Aging attenuates the effect of aerobic capacity in muscle and serum metabolic profile but not in white adipose tissue. <i>Exercise Biochemistry Review</i> , 2018, 1, .	0.0	0
18	Acute Metabolic Response, Energy Expenditure, and EMG Activity in Sitting and Standing. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 1927-1934.	0.4	39

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19	Intrinsic aerobic capacity governs the associations between gut microbiota composition and fat metabolism age-dependently in rat siblings. <i>Physiological Genomics</i> , 2017, 49, 733-746.	2.3	13
20	Treatment with soluble activin type IIB-receptor improves bone mass and strength in a mouse model of Duchenne muscular dystrophy. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 20.	1.9	23
21	Branched-Chain Amino Acid Levels Are Related with Surrogates of Disturbed Lipid Metabolism among Older Men. <i>Frontiers in Medicine</i> , 2016, 3, 57.	2.6	32
22	Voluntary Running Aids to Maintain High Body Temperature in Rats Bred for High Aerobic Capacity. <i>Frontiers in Physiology</i> , 2016, 7, 311.	2.8	10
23	Effects of intrinsic aerobic capacity, aging and voluntary running on skeletal muscle sirtuins and heat shock proteins. <i>Experimental Gerontology</i> , 2016, 79, 46-54.	2.8	33
24	iGEMS: an integrated model for identification of alternative exon usage events. <i>Nucleic Acids Research</i> , 2016, 44, e109-e109.	14.5	18
25	CHI3L1 - a novel myokine. <i>Acta Physiologica</i> , 2016, 216, 260-261.	3.8	2
26	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
27	Physical exercise increases adult hippocampal neurogenesis in male rats provided it is aerobic and sustained. <i>Journal of Physiology</i> , 2016, 594, 1855-1873.	2.9	187
28	Predictors of increase in physical activity during a 6-month follow-up period among overweight and physically inactive healthy young adults. <i>Journal of Exercise Science and Fitness</i> , 2015, 13, 63-71.	2.2	6
29	Physical activity in adulthood: genes and mortality. <i>Scientific Reports</i> , 2015, 5, 18259.	3.3	60
30	DAPIT Over-Expression Modulates Glucose Metabolism and Cell Behaviour in HEK293T Cells. <i>PLoS ONE</i> , 2015, 10, e0131990.	2.5	14
31	PGC-1 isoforms and their target genes are expressed differently in human skeletal muscle following resistance and endurance exercise. <i>Physiological Reports</i> , 2015, 3, e12563.	1.7	54
32	Muscle Inactivity Is Adversely Associated with Biomarkers in Physically Active Adults. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1188-1196.	0.4	22
33	Physical Activity, Fitness, Glucose Homeostasis, and Brain Morphology in Twins. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 509-518.	0.4	35
34	Effect of diet composition on acid-base balance in adolescents, young adults and elderly at rest and during exercise. <i>European Journal of Clinical Nutrition</i> , 2015, 69, 399-404.	2.9	29
35	Myostatin/activin blocking combined with exercise reconditions skeletal muscle expression profile of mdx mice. <i>Molecular and Cellular Endocrinology</i> , 2015, 399, 131-142.	3.2	21
36	Validation of a method to measure total spontaneous physical activity of sedentary and voluntary running mice. <i>Journal of Neuroscience Methods</i> , 2014, 235, 51-58.	2.5	8

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37	Label-free profiling of skeletal muscle using high-definition mass spectrometry. <i>Proteomics</i> , 2014, 14, 2339-2344.	2.2	44
38	Lipid droplet-associated proteins in high-fat fed mice with the effects of voluntary running and diet change. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 1031-1040.	3.4	23
39	High-fat feeding induces angiogenesis in skeletal muscle and activates angiogenic pathways in capillaries. <i>Angiogenesis</i> , 2013, 16, 297-307.	7.2	23
40	Long-term Leisure-time Physical Activity and Serum Metabolome. <i>Circulation</i> , 2013, 127, 340-348.	1.6	193
41	Muscle protein synthesis, mTORC1/MAPK/Hippo signaling, and capillary density are altered by blocking of myostatin and activins. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E41-E50.	3.5	76
42	Are skeletal muscle <i>FNDC5</i> gene expression and irisin release regulated by exercise and related to health?. <i>Journal of Physiology</i> , 2013, 591, 5393-5400.	2.9	219
43	Exercise restores decreased physical activity levels and increases markers of autophagy and oxidative capacity in myostatin/activin-blocked mdx mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E171-E182.	3.5	38
44	Potential Role of Branched-Chain Amino Acid Catabolism in Regulating Fat Oxidation. <i>Exercise and Sport Sciences Reviews</i> , 2013, 41, 194-200.	3.0	67
45	Altered REDD1, myostatin, and Akt/mTOR/FoxO/MAPK signaling in streptozotocin-induced diabetic muscle atrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E307-E315.	3.5	70
46	Low-protein vegetarian diet does not have a short-term effect on blood acid-base status but raises oxygen consumption during submaximal cycling. <i>Journal of the International Society of Sports Nutrition</i> , 2012, 9, 50.	3.9	27
47	Effects of high-fat diet and physical activity on pyruvate dehydrogenase kinase-4 in mouse skeletal muscle. <i>Nutrition and Metabolism</i> , 2012, 9, 53.	3.0	39
48	Selective breeding for endurance running capacity affects cognitive but not motor learning in rats. <i>Physiology and Behavior</i> , 2012, 106, 95-100.	2.1	27
49	Rats Bred for Low Aerobic Capacity Become Promptly Fatigued and Have Slow Metabolic Recovery after Stimulated, Maximal Muscle Contractions. <i>PLoS ONE</i> , 2012, 7, e48345.	2.5	9
50	Artificial Selection for High Aerobic Capacity is Protective against Weight Gain via Thermogenesis?. <i>FASEB Journal</i> , 2012, 26, 1073.5.	0.5	0
51	TopoCell – An image analysis tool to study intracellular topography. <i>FASEB Journal</i> , 2012, 26, 578.2.	0.5	0
52	Blocking of myostatin and activins increase muscle protein synthesis and mTORC1 signaling but decreases capillary density. <i>FASEB Journal</i> , 2012, 26, 1075.2.	0.5	0
53	Lung autophagic response following exposure of mice to whole body irradiation, with and without amifostine. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 552-558.	2.1	9
54	Leisure-time physical activity and artery lumen diameters: A monozygotic co-twin control study. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2011, 21, e208-14.	2.9	7

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55	Extraction of Input Function from Rat [18F]FDG PET Images. <i>Molecular Imaging and Biology</i> , 2011, 13, 1241-1249.	2.6	7
56	Effects of diet-induced obesity and voluntary wheel running on the microstructure of the murine distal femur. <i>Nutrition and Metabolism</i> , 2011, 8, 1.	3.0	71
57	Vertical ground reaction force measurements and video measurements provide comparable estimates of distance moved by mice during artificial light and dark periods. <i>Journal of Neuroscience Methods</i> , 2011, 197, 104-108.	2.5	4
58	"Autophagic flux" in normal mouse tissues: Focus on endogenous LC3A processing. <i>Autophagy</i> , 2011, 7, 1371-1378.	9.1	59
59	Development of Rat Models for Low and High Response to Exercise Training. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 61-62.	0.4	0
60	Effects of Diet-Induced Obesity and Voluntary Wheel Running on Bone Properties in Young Male C57BL/6J Mice. <i>Calcified Tissue International</i> , 2010, 86, 411-419.	3.1	31
61	Gene expression centroids that link with low intrinsic aerobic exercise capacity and complex disease risk. <i>FASEB Journal</i> , 2010, 24, 4565-4574.	0.5	56
62	Differences in Muscle and Adipose Tissue Gene Expression and Cardio-Metabolic Risk Factors in the Members of Physical Activity Discordant Twin Pairs. <i>PLoS ONE</i> , 2010, 5, e12609.	2.5	65
63	Increased PDK4 expression via PGC1 α /ERR1 α dependent mechanism in mouse skeletal muscle after high fat feeding. <i>FASEB Journal</i> , 2010, 24, 987.5.	0.5	0
64	Rats selectively bred for low aerobic capacity become promptly fatigued and have slow metabolic recovery after stimulated muscle contractions. <i>FASEB Journal</i> , 2010, 24, 1045.12.	0.5	0
65	Long lasting high fat feeding increases the capillary density in the skeletal muscle of mice. <i>FASEB Journal</i> , 2010, 24, 1031.6.	0.5	0
66	The Role of PDK4 in High Fat Diet - Induced Insulin Resistance. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 91.	0.4	0
67	High Fat Feeding Increases The Capillary Density In The Skeletal Muscle Of Mice. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 67.	0.4	0
68	Rats Bred For Low Aerobic Capacity Become Rapidly Fatigued And Have Slow Metabolic Recovery After Stimulated Muscle Contractions. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 54.	0.4	0
69	Run more, perform better"old truth revisited. <i>Journal of Applied Physiology</i> , 2009, 106, 1477-1478.	2.5	2
70	Effects of fatiguing jumping exercise on mRNA expression of titin-complex proteins and calpains. <i>Journal of Applied Physiology</i> , 2009, 106, 1419-1424.	2.5	38
71	Effects of 32-Year Leisure Time Physical Activity Discordance in Twin Pairs on Health (TWINACTIVE) Tj ETQq1 1 0.784314 rgBT /Overlock 108-117.	0.6	36
72	Resistance exercise with whey protein ingestion affects mTOR signaling pathway and myostatin in men. <i>Journal of Applied Physiology</i> , 2009, 106, 1720-1729.	2.5	112

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73	Leisure-time physical activity and high-risk fat: a longitudinal population-based twin study. <i>International Journal of Obesity</i> , 2009, 33, 1211-1218.	3.4	78
74	Leisure Time Physical Activity And Body Fat: A Twin Study. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 514-515.	0.4	0
75	Reply to Murphy and Lamb. <i>Journal of Applied Physiology</i> , 2009, 106, 2069-2069.	2.5	0
76	Short-term bone biochemical response to a single bout of high-impact exercise. <i>Journal of Sports Science and Medicine</i> , 2009, 8, 553-9.	1.6	20
77	Degradative and mechanical properties of a novel resorbable plating system during a 3-year follow-up in vivo and in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1155-1163.	3.6	50
78	Exercise-induced expression of angiogenic growth factors in skeletal muscle and in capillaries of healthy and diabetic mice. <i>Cardiovascular Diabetology</i> , 2008, 7, 13.	6.8	67
79	Amorphous and crystalline polyetheretherketone: Mechanical properties and tissue reactions during a 3-year follow-up. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 377-383.	4.0	88
80	Molecular adaptations of voltage-gated sodium ion channel related proteins after fatiguing stretch-shortening cycle exercise. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2008, 18, 636-642.	2.9	2
81	Myocardial blood flow and adenosine A _{2A} receptor density in endurance athletes and untrained men. <i>Journal of Physiology</i> , 2008, 586, 5193-5202.	2.9	32
82	Effects of acute exercise, exercise training, and diabetes on the expression of lymphangiogenic growth factors and lymphatic vessels in skeletal muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2573-H2579.	3.2	17
83	Effects of streptozotocin-induced diabetes and physical training on gene expression of titin-based stretch-sensing complexes in mouse striated muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E533-E542.	3.5	23
84	A single bout of exercise with high mechanical loading induces the expression of Cyr61/CCN1 and CTGF/CCN2 in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2007, 103, 1395-1401.	2.5	45
85	Gluten affects epithelial differentiation-associated genes in small intestinal mucosa of coeliac patients. <i>Clinical and Experimental Immunology</i> , 2007, 150, 294-305.	2.6	40
86	Physical training attenuates gene expression of ubiquitin-proteasome pathway in diabetic mouse skeletal muscle. <i>FASEB Journal</i> , 2007, 21, A837.	0.5	0
87	In vivo and in vitro degradation of a novel bioactive guided tissue regeneration membrane. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2006, 35, 727-732.	1.5	25
88	Gene expression in TGFbeta-induced epithelial cell differentiation in a three-dimensional intestinal epithelial cell differentiation model. <i>BMC Genomics</i> , 2006, 7, 279.	2.8	13
89	Effects of streptozotocin-induced diabetes and physical training on gene expression of extracellular matrix proteins in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E900-E907.	3.5	28
90	Murine Ortholog of the Novel Glycosyltransferase, B3GTL: Primary Structure, Characterization of the Gene and Transcripts, and Expression in Tissues. <i>DNA and Cell Biology</i> , 2006, 25, 465-474.	1.9	9

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91	Effects of experimental type 1 diabetes and exercise training on angiogenic gene expression and capillarization in skeletal muscle. <i>FASEB Journal</i> , 2006, 20, 1570-1572.	0.5	112
92	Small bowel cyclooxygenase 2 (COX-2) expression in patients with IgA nephropathy. <i>Kidney International</i> , 2005, 67, 2187-2195.	5.2	24
93	TGF- β 2 induces the expression of SAP30L, a novel nuclear protein. <i>BMC Genomics</i> , 2003, 4, 53.	2.8	16
94	A novel human glycosyltransferase: primary structure and characterization of the gene and transcripts. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 166-174.	2.1	19
95	Differentially expressed CC3/TIP30 and rab11 along in vivo and in vitro intestinal epithelial cell crypt-villus axis. <i>Life Sciences</i> , 2001, 69, 1363-1372.	4.3	12
96	A New Biodegradable Stent for the Pancreaticojejunal Anastomosis After Pancreaticoduodenal Resection: In Vitro Examination and Pilot Experiences in Humans. <i>Pancreas</i> , 2000, 21, 14-21.	1.1	28
97	Identification of Novel Transcription Factor-like Gene from Human Intestinal Cells. <i>Biochemical and Biophysical Research Communications</i> , 2000, 276, 660-666.	2.1	40
98	Small bowel T cells, HLA class II antigen DR, and GroEL stress protein in IgA nephropathy. <i>Kidney International</i> , 1999, 55, 2274-2280.	5.2	25
99	Reverse Transcription-Polymerase Chain Reaction in the Diagnosis of Helicobacter pylori Infection in Finnish Children. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 1999, 28, 252-256.	1.8	9
100	Placental Glucose Transporters in Fetal Intrauterine Growth Retardation and Macrosomia. <i>Gynecologic and Obstetric Investigation</i> , 1997, 44, 89-92.	1.6	44
101	Alternative mRNA Splicing of the Novel GTPase Rab28 Generates Isoforms with Different C-Termini. <i>FEBS Journal</i> , 1996, 237, 833-840.	0.2	29
102	Enterochromaffin cell density in the gastric mucosa of patients with chronic renal failure. <i>Apmis</i> , 1996, 104, 362-366.	2.0	13
103	Dyrk, a Dual Specificity Protein Kinase with Unique Structural Features Whose Activity Is Dependent on Tyrosine Residues between Subdomains VII and VIII. <i>Journal of Biological Chemistry</i> , 1996, 271, 3488-3495.	3.4	231
104	Dissociation of the effects of training on oxidative metabolism, glucose utilisation and GLUT4 levels in skeletal muscle of streptozotocin-diabetic rats. <i>Pflugers Archiv European Journal of Physiology</i> , 1994, 427, 444-449.	2.8	15
105	Effects of training and anabolic steroids on collagen synthesis in dog heart. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991, 62, 1-6.	1.2	31
106	Effects of Training on Regional Substrate Oxidation in the Hearts of Ageing Rats. <i>Gerontology</i> , 1989, 35, 289-296.	2.8	8
107	Redistribution of glucose uptake by chronic exercise, measured in isolated perfused rat hearts. <i>Pflugers Archiv European Journal of Physiology</i> , 1985, 403, 296-300.	2.8	13
108	Model ecosystem for environmental transport of xenobiotics. <i>Archives of Environmental Contamination and Toxicology</i> , 1982, 11, 419-424.	4.1	1

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109	Treatment with soluble activin type IIB-receptor improves bone mass and strength in a mouse model of duchenne muscular dystrophy. Bone Abstracts, 0, , .	0.0	0