Martine A Thomis

List of Publications by Citations

108 papers	2,971 citations	33 h-index	51 g-index
126 ext. papers	3,455 ext. citations	2.7 avg, IF	4.79 L-index

#	Paper	IF	Citations
108	ACTN3 (R577X) genotype is associated with fiber type distribution. *Physiological Genomics*, **2007**, 32, 58-63	3.6	197
107	Dietary nitrate improves muscle but not cerebral oxygenation status during exercise in hypoxia. *Journal of Applied Physiology*, **2012**, 113, 736-45	3.7	109
106	Inheritance of physical fitness in 10-yr-old twins and their parents. *Medicine and Science in Sports and Exercise*, **1996**, 28, 1479-91	1.2	109
105	Genetic factors in physical activity levels: a twin study. *American Journal of Preventive Medicine*, **2002**, 23, 87-91	6.1	103
104	Muscular strength, aerobic fitness, and metabolic syndrome risk in Flemish adults. *Medicine and Science in Sports and Exercise*, **2007**, 39, 233-40	1.2	102
103	Prediction of adult height using maturity-based cumulative height velocity curves. *Journal of Pediatrics*, **2005**, 147, 508-14	3.6	101
102	Reliability and validity of the ultrasound technique to measure the rectus femoris muscle diameter in older CAD-patients. *BMC Medical Imaging*, **2012**, 12, 7	2.9	84
101	Reliability and validity of the Flemish Physical Activity Computerized Questionnaire in adults. *Research Quarterly for Exercise and Sport*, **2007**, 78, 293-306	1.9	83
100	Use of different genetic predisposition score techniques to predict muscle mass and muscle function over the adult life span in Flemish Caucasians. *Archives of Public Health*, **2015**, 73,	2.6	78
99	(Epi)genetic variation in ageing of metabolic fitness. *Archives of Public Health*, **2015**, 73,	2.6	78
98	Sports Participation Among Females From Adolescence To Adulthood: A Longitudinal Study. *International Review for the Sociology of Sport*, **2006**, 41, 413-430	1.7	67
97	Heritability of conventional and ambulatory blood pressures. A study in twins. *Hypertension*, **1995**, 26, 919-24	8.5	65
96	Tracking of physical fitness and physical activity from youth to adulthood in females. *Medicine and Science in Sports and Exercise*, **2006**, 38, 1114-20	1.2	63
95	Socio-economic status, growth, physical activity and fitness: the Madeira Growth Study. *Annals of Human Biology*, **2007**, 34, 107-22	1.7	62
94	Specific associations between types of physical activity and components of mental health. *Journal of Science and Medicine in Sport*, **2009**, 12, 468-74	4.4	61
93	Protective role of alpha-actinin-3 in the response to an acute eccentric exercise bout. *Journal of Applied Physiology*, **2010**, 109, 564-73	3.7	59
92	Multivariate genetic analysis of maximal isometric muscle force at different elbow angles. *Journal of Applied Physiology*, **1997**, 82, 959-67	3.7	59

91	Heritability of body mass index in pre-adolescence, young adulthood and late adulthood. *European Journal of Epidemiology*, **2012**, 27, 247-53	12.1	58
90	Association between leisure time physical activity and stress, social support and coping: A cluster-analytical approach. *Psychology of Sport and Exercise*, **2007**, 8, 425-440	4.2	57
89	Muscular Strength Development in Children and Adolescents. *Pediatric Exercise Science*, **2000**, 12, 174-197	2.7	57
88	Determinants and upper-limit heritabilities of skeletal muscle mass and strength. *Applied Physiology, Nutrition, and Metabolism*, **2004**, 29, 186-200		53
87	Daily physical activity and physical fitness from adolescence to adulthood: A longitudinal study. *American Journal of Human Biology*, **2000**, 12, 487-497	2.7	49
86	Genetics of regular exercise and sedentary behaviors. *Twin Research and Human Genetics*, **2014**, 17, 262-71	2.2	48
85	Biological/Genetic Regulation of Physical Activity Level: Consensus from GenBioPAC. *Medicine and Science in Sports and Exercise*, **2018**, 50, 863-873	1.2	48
84	Genetic and environmental factors in familial clustering in physical activity. *European Journal of Epidemiology*, **2008**, 23, 205-11	12.1	45
83	Growth in peak aerobic power during adolescence. *Medicine and Science in Sports and Exercise*, **2004**, 36, 1616-24	1.2	43
82	Muscle mass and muscle function over the adult life span: a cross-sectional study in Flemish adults. *Archives of Gerontology and Geriatrics*, **2015**, 61, 161-7	4	38
81	Acute environmental hypoxia induces LC3 lipidation in a genotype-dependent manner. *FASEB Journal*, **2014**, 28, 1022-34	0.9	38
80	Sport participation and stress among women and men. *Psychology of Sport and Exercise*, **2012**, 13, 466-483	3.2	37
79	Associations between sport participation, demographic and socio-cultural factors in Portuguese children and adolescents. *European Journal of Public Health*, **2008**, 18, 25-30	2.1	37
78	Tracking of fatness during childhood, adolescence and young adulthood: a 7-year follow-up study in Madeira Island, Portugal. *Annals of Human Biology*, **2012**, 39, 59-67	1.7	35
77	The influence of sex, age and heritability on human skeletal muscle carnosine content. *Amino Acids*, **2012**, 43, 13-20	3.5	33
76	Adolescent growth spurts in female gymnasts. *Journal of Pediatrics*, **2005**, 146, 239-44	3.6	33
75	Skeletal maturation, fundamental motor skills and motor coordination in children 7-10 years. *Journal of Sports Sciences*, **2015**, 33, 924-34	3.6	32
74	Comprehensive fine mapping of chr12q12-14 and follow-up replication identify activin receptor 1B (ACVR1B) as a muscle strength gene. *European Journal of Human Genetics*, **2011**, 19, 208-15	5.3	32

73	A genetic predisposition score for muscular endophenotypes predicts the increase in aerobic power after training: the CAREGENE study. *BMC Genetics*, **2011**, 12, 84	2.6	30
72	Role of alpha-actinin-3 in contractile properties of human single muscle fibers: a case series study in paraplegics. *PLoS ONE*, **2012**, 7, e49281	3.7	28
71	Intraindividual allometric development of aerobic power in 8- to 16-year-old boys. *Medicine and Science in Sports and Exercise*, **2002**, 34, 503-10	1.2	27
70	The effect of resistance training, detraining and retraining on muscle strength and power, myofibre size, satellite cells and myonuclei in older men. *Experimental Gerontology*, **2020**, 133, 110860	4.5	24
69	Age and sex differences in physical activity of Portuguese adolescents. *Medicine and Science in Sports and Exercise*, **2008**, 40, 65-70	1.2	24
68	Age-related decline in muscle mass and muscle function in Flemish Caucasians: a 10-year follow-up. *Age*, **2016**, 38, 36		23
67	Gene powered? Where to go from heritability (h2) in muscle strength and power?. *Exercise and Sport Sciences Reviews*, **2004**, 32, 148-54	6.7	23
66	Gross motor coordination and weight status of Portuguese children aged 6-14 years. *American Journal of Human Biology*, **2015**, 27, 681-9	2.7	22
65	Longitudinal impact of aging on muscle quality in middle-aged men. *Age*, **2014**, 36, 9689		21
64	Genetic determinants of prepubertal and pubertal growth and development. *Food and Nutrition Bulletin*, **2006**, 27, S257-78	1.8	20
63	Genetic predisposition scores associate with muscular strength, size, and trainability. *Medicine and Science in Sports and Exercise*, **2013**, 45, 1451-9	1.2	19
62	Genetics of Strength and Power Characteristics in Children and Adolescents. *Pediatric Exercise Science*, **2003**, 15, 128-138	2	19
61	Evidence for ACTN3 as a Speed Gene in Isolated Human Muscle Fibers. *PLoS ONE*, **2016**, 11, e0150594	3.7	19
60	History-dependent force, angular velocity and muscular endurance in ACTN3 genotypes. *European Journal of Applied Physiology*, **2015**, 115, 1637-43	3.4	18
59	Univariate and multivariate genetic analysis of subcutaneous fatness and fat distribution in early adolescence. *Behavior Genetics*, **1998**, 28, 279-88	3.2	17
58	Methodological issues associated with longitudinal research: findings from the Leuven Longitudinal Study on Lifestyle, Fitness and Health (1969 - 2004). *Journal of Sports Sciences*, **2007**, 25, 1011-24	3.6	17
57	Skeletal Maturation, Body Size, and Motor Coordination in Youth 11-14 Years. *Medicine and Science in Sports and Exercise*, **2016**, 48, 1129-35	1.2	16
56	Prevalence and association of single nucleotide polymorphisms with sarcopenia in older women depends on definition. *Scientific Reports*, **2020**, 10, 2913	4.9	14

55	A Genetic Epidemiological Mega Analysis of Smoking Initiation in Adolescents. *Nicotine and Tobacco Research*, **2017**, 19, 401-409	4.9	14
54	Genetic and environmental determination of tracking in static strength during adolescence. *Journal of Applied Physiology*, **2005**, 99, 1317-26	3.7	13
53	Change, stability and prediction of gross motor co-ordination in Portuguese children. *Annals of Human Biology*, **2016**, 43, 201-11	1.7	13
52	Genetic predisposition score predicts the increases of knee strength and muscle mass after one-year exercise in healthy elderly. *Experimental Gerontology*, **2018**, 111, 17-26	4.5	11
51	Differentially methylated gene patterns between age-matched sarcopenic and non-sarcopenic women. *Journal of Cachexia, Sarcopenia and Muscle*, **2019**, 10, 1295-1306	10.3	11
50	A quantitative trait locus on 13q14.2 for trunk strength. *Twin Research and Human Genetics*, **2004**, 7, 603-6		11
49	Genetic and environmental causes of tracking in explosive strength during adolescence. *Behavior Genetics*, **2005**, 35, 551-63	3.2	10
48	Rate of power development of the knee extensors across the adult life span: A cross-sectional study in 1387 Flemish Caucasians. *Experimental Gerontology*, **2018**, 110, 260-266	4.5	10
47	Motor performance, body fatness and environmental factors in preschool children. *Journal of Sports Sciences*, **2018**, 36, 2289-2295	3.6	9
46	Lipid profile in men and women with different levels of sports participation and physical activity. *Public Health Nutrition*, **2008**, 11, 1098-106	3.3	9
45	The Association of Multiple Gene Variants with Ageing Skeletal Muscle Phenotypes in Elderly Women. *Genes*, **2020**, 11,	4.2	8
44	Twin Resemblance in Muscle HIF-1Responses to Hypoxia and Exercise. *Frontiers in Physiology*, **2016**, 7, 676	4.6	8
43	High twin resemblance for sensitivity to hypoxia. *Medicine and Science in Sports and Exercise*, **2015**, 47, 74-81	1.2	8
42	Clustering of metabolic risk factors in young adults: genes and environment. *Atherosclerosis*, **2008**, 200, 168-76	3.1	8
41	Adolescent physical performance and adult physical activity in Flemish males. *American Journal of Human Biology*, **2001**, 13, 173-9	2.7	8
40	Muscular strength and diameter as determinants of aerobic power and aerobic power response to exercise training in CAD patients. *Acta Cardiologica*, **2012**, 67, 399-406	0.9	7
39	Short-term secular change in height, body mass and Tanner-Whitehouse 3 skeletal maturity of Madeira youth, Portugal. *Annals of Human Biology*, **2012**, 39, 195-205	1.7	7
38	Genetic, maternal and placental factors in the association between birth weight and physical fitness: a longitudinal twin study. *PLoS ONE*, **2013**, 8, e76423	3.7	7

37	Associations of combined genetic and epigenetic scores with muscle size and muscle strength: a pilot study in older women. *Journal of Cachexia, Sarcopenia and Muscle*, **2020**, 11, 1548-1561	10.3	7
36	The stiffness response of type IIa fibres after eccentric exercise-induced muscle damage is dependent on ACTN3 r577X polymorphism. *European Journal of Sport Science*, **2019**, 19, 480-489	3.9	7
35	Limited potential of genetic predisposition scores to predict muscle mass and strength performance in Flemish Caucasians between 19 and 73 years of age. *Physiological Genomics*, **2017**, 49, 160-166	3.6	6
34	A genetic predisposition score associates with reduced aerobic capacity in response to acute normobaric hypoxia in lowlanders. *High Altitude Medicine and Biology*, **2015**, 16, 34-42	1.9	6
33	Genetic variation in human muscle strength--opportunities for therapeutic interventions?. *Current Opinion in Pharmacology*, **2012**, 12, 355-62	5.1	6
32	Prediction of adult height in girls: the Beunen-Malina-Freitas method. *Journal of Sports Sciences*, **2011**, 29, 1683-91	3.6	6
31	Static one-leg standing balance test as a screening tool for low muscle mass in healthy elderly women. *Aging Clinical and Experimental Research*, **2021**, 33, 1831-1839	4.8	6
30	Intensity-Specific Differential Leukocyte DNA Methylation in Physical (In)Activity: An Exploratory Approach. *Twin Research and Human Genetics*, **2018**, 21, 101-111	2.2	5
29	Physical activity, physical fitness, gross motor coordination, and metabolic syndrome: focus of twin research in Portugal. *Twin Research and Human Genetics*, **2013**, 16, 296-301	2.2	4
28	The Genetic Background of Metabolic Trait Clusters in Children and Adolescents. *Metabolic Syndrome and Related Disorders*, **2017**, 15, 329-336	2.6	3
27	Genetic influences of sports participation in Portuguese families. *European Journal of Sport Science*, **2014**, 14, 510-7	3.9	3
26	Commentary on viewpoint: Perspective on the future use of genomics in exercise prescription. *Journal of Applied Physiology*, **2008**, 104, 1251	3.7	3
25	Genetics of somatotype and physical fitness in children and adolescents. *American Journal of Human Biology*, **2021**, 33, e23470	2.7	3
24	Nutritional status and height, weight and BMI centiles of school-aged children and adolescents of 6-18-years from Kinshasa (DRC). *Annals of Human Biology*, **2017**, 44, 554-561	1.7	2
23	Genetic aspects of sports practice: a twin study. *Revista Paulista De Educa□ F□sica*, **1999**, 13, 160		2
22	Metabolic fitness in relation to genetic variation and leukocyte DNA methylation. *Physiological Genomics*, **2019**, 51, 12-26	3.6	2
21	Biological and environmental determinants of 12-minute run performance in youth. *Annals of Human Biology*, **2017**, 44, 607-613	1.7	1
20	Timing of adolescent somatic maturity and midlife muscle function: a 34-yr follow-up. *Medicine and Science in Sports and Exercise*, **2009**, 41, 1729-34	1.2	1

19	A Quantitative Trait Locus on 13q14.2 for Trunk Strength		1
18	Sarcopenia, Obesity, and Sarcopenic Obesity: Relationship with Skeletal Muscle Phenotypes and Single Nucleotide Polymorphisms. *Journal of Clinical Medicine*, **2021**, 10,	5.1	1
17	Recurrent training rejuvenates and enhances transcriptome and methylome responses in young and older human muscle		1
16	Fundamental Concepts in Exercise Genomics **2011**, 1-22		1
15	Dietary Protein Requirement Threshold and Micronutrients Profile in Healthy Older Women Based on Relative Skeletal Muscle Mass. *Nutrients*, **2021**, 13,	6.7	1
14	Daily physical activity and physical fitness from adolescence to adulthood: A longitudinal study **2000**, 12, 487		1
13	Polygenic Models Partially Predict Muscle Size and Strength but Not Low Muscle Mass in Older Women. *Genes*, **2022**, 13, 982	4.2	1
12	Genes and Strength and Power Phenotypes **2010**, 159-176		
11	The Leuven Longitudinal Twin Study (LLTS): Major Findings. *Twin Research and Human Genetics*, **2007**, 10, 15-18	2.2	
10	Linkage Analysis Between Myostatin and Titin Markers and Muscular Strength. *Medicine and Science in Sports and Exercise*, **2004**, 36, S39-S40	1.2	
9	Linkage Analysis Of Myostatin Pathway Genes On Individual Factor Scores Of Human Muscularity. *Medicine and Science in Sports and Exercise*, **2005**, 37, S472	1.2	
8	Association Between Clusters Of Perceived Stress Correlates And Physical (in)activity In Adults. *Medicine and Science in Sports and Exercise*, **2005**, 37, S462	1.2	
7	Familial Resemblance In Physical Activity. *Medicine and Science in Sports and Exercise*, **2005**, 37, S327	1.2	
6	Familial Resemblance In Physical Fitness. *Medicine and Science in Sports and Exercise*, **2005**, 37, S326-S327	1.2	
5	Generational Differences In Physical Fitness. *Medicine and Science in Sports and Exercise*, **2005**, 37, S323	1.2	
4	Prevalence Of Overweight And Obesity In Flemish Adults. *Medicine and Science in Sports and Exercise*, **2005**, 37, S172	1.2	
3	Quantitative genetic analysis of physical activity in Portuguese nuclear families. *Medicine and Science in Sports and Exercise*, **2008**, 40, S182	1.2	
2	Genome-wide Linkage Scan For Resistance To Fatigue Of The Knee Flexors In Young Men. *Medicine and Science in Sports and Exercise*, **2008**, 40, S184-S185	1.2	

1 Acute environmental hypoxia activates autophagy in human skeletal muscle (1167.2). *FASEB Journal*, **2014**, 28, 1167.2 0.9