Gil Atzmon

List of Publications by Year in descending order

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Version: 2024-02-01

78 papers	12,297 citations	117571 34 h-index	79644 73 g-index
80 all docs	80 docs citations	80 times ranked	26918 citing authors

#	Article	IF	Citations
1	The mutational constraint spectrum quantified from variation in 141,456 humans. Nature, 2020, 581, 434-443.	13.7	6,140
2	The genetic architecture of type 2 diabetes. Nature, 2016, 536, 41-47.	13.7	952
3	Loss-of-function mutations in SLC30A8 protect against type 2 diabetes. Nature Genetics, 2014, 46, 357-363.	9.4	428
4	Genome-wide analysis identifies 12 loci influencing human reproductive behavior. Nature Genetics, 2016, 48, 1462-1472.	9.4	284
5	Functional variants in the LRRK2 gene confer shared effects on risk for Crohnâ€™s disease and Parkinsonâ€™s disease. Science Translational Medicine, 2018, 10, .	5.8	273
6	Exome sequencing of 20,791Âcases of type 2 diabetes and 24,440Âcontrols. Nature, 2019, 570, 71-76.	13.7	248
7	Extreme Longevity Is Associated with Increased Serum Thyrotropin. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 1251-1254.	1.8	223
8	Abraham's Children in the Genome Era: Major Jewish Diaspora Populations Comprise Distinct Genetic Clusters with Shared Middle Eastern Ancestry. American Journal of Human Genetics, 2010, 86, 850-859.	2.6	217
9	A meta-analysis of genome-wide association studies identifies multiple longevity genes. Nature Communications, 2019, 10, 3669.	5.8	214
10	Genetic variation in human telomerase is associated with telomere length in Ashkenazi centenarians. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1710-1717.	3.3	203
11	Lipoprotein Genotype and Conserved Pathway for Exceptional Longevity in Humans. PLoS Biology, 2006, 4, e113.	2.6	197
12	Clinical Phenotype of Families with Longevity. Journal of the American Geriatrics Society, 2004, 52, 274-277.	1.3	174
13	Sequencing an Ashkenazi reference panel supports population-targeted personal genomics and illuminates Jewish and European origins. Nature Communications, 2014, 5, 4835.	5.8	156
14	A Genome-Wide Scan of Ashkenazi Jewish Crohn's Disease Suggests Novel Susceptibility Loci. PLoS Genetics, 2012, 8, e1002559.	1.5	144
15	Transcript expression-aware annotation improves rare variant interpretation. Nature, 2020, 581, 452-458.	13.7	142
16	Body mass index is negatively associated with telomere length: a collaborative cross-sectional meta-analysis of 87 observational studies. American Journal of Clinical Nutrition, 2018, 108, 453-475.	2.2	137
17	Genetic Predisposition to Elevated Serum Thyrotropin Is Associated with Exceptional Longevity. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 4768-4775.	1.8	132
18	Plasma HDL Levels Highly Correlate With Cognitive Function in Exceptional Longevity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2002, 57, M712-M715.	1.7	130

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19	Genome-Wide Scan Informed by Age-Related Disease Identifies Loci for Exceptional Human Longevity. PLoS Genetics, 2015, 11, e1005728.	1.5	128
20	A genome-wide association study of aging. Neurobiology of Aging, 2011, 32, 2109.e15-2109.e28.	1.5	127
21	Adiponectin Levels and Genotype: A Potential Regulator of Life Span in Humans. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2008, 63, 447-453.	1.7	121
22	Biological evidence for inheritance of exceptional longevity. Mechanisms of Ageing and Development, 2005, 126, 341-345.	2.2	100
23	Genetics, lifestyle and longevity: Lessons from centenarians. Applied & Translational Genomics, 2015, 4, 23-32.	2.1	90
24	Screening Human Embryos for Polygenic Traits Has Limited Utility. Cell, 2019, 179, 1424-1435.e8.	13.5	78
25	Disrupting Mitochondrialâ€“Nuclear Coevolution Affects OXPHOS Complex I Integrity and Impacts Human Health. Genome Biology and Evolution, 2014, 6, 2665-2680.	1.1	68
26	The mitochondrial derived peptide humanin is a regulator of lifespan and healthspan. Aging, 2020, 12, 11185-11199.	1.4	67
27	Insights into the genetic epidemiology of Crohn's and rare diseases in the Ashkenazi Jewish population. PLoS Genetics, 2018, 14, e1007329.	1.5	66
28	Genomic Instabilities, Cellular Senescence, and Aging: In Vitro, In Vivo and Aging-Like Human Syndromes. Frontiers in Medicine, 2018, 5, 104.	1.2	60
29	A Frameshift in CSF2RB Predominant Among Ashkenazi Jews Increases Risk for Crohn's Disease and Reduces Monocyte Signaling via GM-CSF. Gastroenterology, 2016, 151, 710-723.e2.	0.6	51
30	<scp>GWAS</scp> analysis of handgrip and lower body strength in older adults in the <scp>CHARGE</scp> consortium. Aging Cell, 2016, 15, 792-800.	3.0	51
31	Genome-wide mapping of IBD segments in an Ashkenazi PD cohort identifies associated haplotypes. Human Molecular Genetics, 2014, 23, 4693-4702.	1.4	49
32	Determinants of penetrance and variable expressivity in monogenic metabolic conditions across 77,184 exomes. Nature Communications, 2021, 12, 3505.	5.8	49
33	The GH receptor exon 3 deletion is a marker of male-specific exceptional longevity associated with increased GH sensitivity and taller stature. Science Advances, 2017, 3, e1602025.	4.7	47
34	A Low-Frequency Inactivating AKT2 Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. Diabetes, 2017, 66, 2019-2032.	0.3	47
35	Positive attitude toward life, emotional expression, self-rated health, and depressive symptoms among centenarians and near-centenarians. Aging and Mental Health, 2016, 20, 930-939.	1.5	41
36	Genetic landscape of APOE in human longevity revealed by high-throughput sequencing. Mechanisms of Ageing and Development, 2016, 155, 7-9.	2.2	35

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37	Activation-Induced Autophagy Is Preserved in CD4+ T-Cells in Familial Longevity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1201-1206.	1.7	35
38	Expanded genetic screening panel for the Ashkenazi Jewish population. Genetics in Medicine, 2016, 18, 522-528.	1.1	33
39	Effects of FOXO3 Polymorphisms on Survival to Extreme Longevity in Four Centenarian Studies. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1439-1447.	1.7	32
40	Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. Scientific Data, 2017, 4, 170179.	2.4	31
41	Identification of Genes Promoting Skin Youthfulness by Genome-Wide Association Study. Journal of Investigative Dermatology, 2014, 134, 651-657.	0.3	30
42	Evaluating the contribution of rare variants to type 2 diabetes and related traits using pedigrees. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 379-384.	3.3	28
43	Telomeres and Longevity: A Cause or an Effect?. International Journal of Molecular Sciences, 2019, 20, 3233.	1.8	28
44	Effect of Exceptional Parental Longevity and Lifestyle Factors on Prevalence of Cardiovascular Disease in Offspring. American Journal of Cardiology, 2017, 120, 2170-2175.	0.7	27
45	FOXP3 mutations causing earlyâ€onset insulinâ€requiring diabetes but without other features of immune dysregulation, polyendocrinopathy, enteropathy, Xâ€linked syndrome. Pediatric Diabetes, 2018, 19, 388-392.	1.2	25
46	High-depth whole genome sequencing of an Ashkenazi Jewish reference panel: enhancing sensitivity, accuracy, and imputation. Human Genetics, 2018, 137, 343-355.	1.8	24
47	Rare coding variants in 35 genes associate with circulating lipid levelsâ€”A multi-ancestry analysis of 170,000 exomes. American Journal of Human Genetics, 2022, 109, 81-96.	2.6	24
48	Association of anti-inflammatory cytokine IL10 polymorphisms with motoric cognitive risk syndrome in an Ashkenazi Jewish population. Neurobiology of Aging, 2017, 58, 238.e1-238.e8.	1.5	22
49	Rare genetic coding variants associated with human longevity and protection against age-related diseases. Nature Aging, 2021, 1, 783-794.	5.3	22
50	Transancestral fine-mapping of four type 2 diabetes susceptibility loci highlights potential causal regulatory mechanisms. Human Molecular Genetics, 2016, 25, 2070-2081.	1.4	21
51	Novel ultra-rare exonic variants identified in a founder population implicate cadherins in schizophrenia. Neuron, 2021, 109, 1465-1478.e4.	3.8	21
52	Pregnancy as a model for aging. Ageing Research Reviews, 2020, 62, 101093.	5.0	20
53	Genetic Insights Into Frailty: Association of 9p21-23 Locus With Frailty. Frontiers in Medicine, 2018, 5, 105.	1.2	19
54	Exceptionally Long-Lived Individuals (ELLI) Demonstrate Slower Aging Rate Calculated by DNA Methylation Clocks as Possible Modulators for Healthy Longevity. International Journal of Molecular Sciences, 2020, 21, 615.	1.8	18

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55	The Genetics of Bene Israel from India Reveals Both Substantial Jewish and Indian Ancestry. PLoS ONE, 2016, 11, e0152056.	1.1	17
56	Greater effect of polygenic risk score for Alzheimer's disease among younger cases who are apolipoprotein E-Iµ4 carriers. Neurobiology of Aging, 2021, 99, 101.e1-101.e9.	1.5	16
57	Novel candidate genes putatively involved in stress fracture predisposition detected by whole-exome sequencing. Genetical Research, 2014, 96, e004.	0.3	14
58	Empirical design of a variant quality control pipeline for whole genome sequencing data using replicate discordance. Scientific Reports, 2019, 9, 16156.	1.6	14
59	The genetic history of Cochin Jews from India. Human Genetics, 2016, 135, 1127-1143.	1.8	12
60	Genetic signature of human longevity in PKC and NFâ€ºB signaling. Aging Cell, 2021, 20, e13362.	3.0	12
61	The influence of gender on inheritance of exceptional longevity. Aging, 2015, 7, 412-418.	1.4	12
62	Genotyping of geographically diverse Druze trios reveals substructure and a recent bottleneck. European Journal of Human Genetics, 2015, 23, 1093-1099.	1.4	10
63	New Locus for Skin Intrinsic Fluorescence in Type 1 Diabetes Also Associated With Blood and Skin Glycated Proteins. Diabetes, 2016, 65, 2060-2071.	0.3	10
64	Differential burden of rare protein truncating variants in Alzheimerâ€™s disease patients compared to centenarians. Human Molecular Genetics, 2016, 25, ddw150.	1.4	10
65	Redox-mediated regulation of aging and healthspan by an evolutionarily conserved transcription factor HLH-2/Tcf3/E2A. Redox Biology, 2020, 32, 101448.	3.9	10
66	Genetic variation in Sirtuin 1 (SIRT1) is associated with lipid profiles but not with longevity in Ashkenazi Jews. Translational Research, 2015, 165, 480-481.	2.2	9
67	Senescence and Longevity of Sea Urchins. Genes, 2020, 11, 573.	1.0	7
68	The effects of environmental stressors on candidate aging associated genes. Experimental Gerontology, 2020, 137, 110952.	1.2	5
69	PopCluster: an algorithm to identify genetic variants with ethnicity-dependent effects. Bioinformatics, 2019, 35, 3046-3054.	1.8	3
70	Buffering Mechanisms in Aging: A systems approach towards uncovering the genetic component of aging. PLoS Computational Biology, 2005, preprint, e170.	1.5	2
71	Breaking the Glass Ceiling. Gerontology, 2020, 66, 309-314.	1.4	1
72	Clonal Hematopoiesis with Somatic Mutations Is a Common, Age-Related Condition Associated with Adverse Outcomes. Blood, 2014, 124, 840-840.	0.6	1

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73	[P3â€“118]: INCREASED BURDEN OF RARE LOSSâ€OFâ€FUNCTION VARIANTS IN ALZHEIMER's DISEASE PATIENTS COMPARED TO CENTENARIANS. Alzheimer's and Dementia, 2017, 13, P980.	0.4	0
74	Prevalent skin cancer and conservative faith may be linked with cognitive impairment in Ashkenazi Jewish exceptionally longâ€lived individuals. Alzheimer's and Dementia, 2020, 16, e046002.	0.4	0
75	The Hypothalamic-Pituitary-Testicular Axis in Exceptionally Old Men. Journal of the Endocrine Society, 2021, 5, A727-A727.	0.1	0
76	Obesity/diabetesâ€associated gene screening in rhesus monkeys. FASEB Journal, 2011, 25, 859.4.	0.2	0
77	Association of telomere length (TL) with clinical outcomes in patients with colorectal carcinoma (CRC).. Journal of Clinical Oncology, 2013, 31, 418-418.	0.8	0
78	Association of telomere length with clinical outcomes in patients with colorectal carcinoma.. Journal of Clinical Oncology, 2013, 31, e14540-e14540.	0.8	0