

# Gilad Twig

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

8,489  
citations

101496

36  
h-index

46771

89  
g-index

120  
all docs

120  
docs citations

120  
times ranked

13809  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fission and selective fusion govern mitochondrial segregation and elimination by autophagy. <i>EMBO Journal</i> , 2008, 27, 433-446.	3.5	2,587
2	Body-Mass Index in 2.3 Million Adolescents and Cardiovascular Death in Adulthood. <i>New England Journal of Medicine</i> , 2016, 374, 2430-2440.	13.9	683
3	The Interplay Between Mitochondrial Dynamics and Mitophagy. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1939-1951.	2.5	632
4	Mitochondrial fusion, fission and autophagy as a quality control axis: The bioenergetic view. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1092-1097.	0.5	556
5	Mitochondrial Networking Protects $\beta$ -Cells From Nutrient-Induced Apoptosis. <i>Diabetes</i> , 2009, 58, 2303-2315.	0.3	339
6	Hormone-induced mitochondrial fission is utilized by brown adipocytes as an amplification pathway for energy expenditure. <i>EMBO Journal</i> , 2014, 33, n/a-n/a.	3.5	185
7	Fatty Acids Suppress Autophagic Turnover in $\beta$ -Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 42534-42544.	1.6	170
8	The Effectiveness of the Two-Dose BNT162b2 Vaccine: Analysis of Real-World Data. <i>Clinical Infectious Diseases</i> , 2022, 74, 472-478.	2.9	152
9	Pathogenesis of infertility and recurrent pregnancy loss in thyroid autoimmunity. <i>Journal of Autoimmunity</i> , 2012, 38, J275-J281.	3.0	151
10	History of Childhood Kidney Disease and Risk of Adult End-Stage Renal Disease. <i>New England Journal of Medicine</i> , 2018, 378, 428-438.	13.9	140
11	White Blood Cells Count and Incidence of Type 2 Diabetes in Young Men. <i>Diabetes Care</i> , 2013, 36, 276-282.	4.3	139
12	Cardiovascular morbidity, diabetes and cancer risk among children and adolescents with severe obesity. <i>Cardiovascular Diabetology</i> , 2020, 19, 79.	2.7	138
13	Frequency and Selectivity of Mitochondrial Fusion Are Key to Its Quality Maintenance Function. <i>Biophysical Journal</i> , 2009, 96, 3509-3518.	0.2	136
14	The Impact of Childhood and Adolescent Obesity on Cardiovascular Risk in Adulthood: a Systematic Review. <i>Current Diabetes Reports</i> , 2018, 18, 91.	1.7	122
15	Tagging and tracking individual networks within a complex mitochondrial web with photoactivatable GFP. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 291, C176-C184.	2.1	112
16	$\beta$ -Cell Mitochondria Exhibit Membrane Potential Heterogeneity That Can Be Altered by Stimulatory or Toxic Fuel Levels. <i>Diabetes</i> , 2007, 56, 2569-2578.	0.3	104
17	MitoTimer probe reveals the impact of autophagy, fusion, and motility on subcellular distribution of young and old mitochondrial protein and on relative mitochondrial protein age. <i>Autophagy</i> , 2013, 9, 1887-1896.	4.3	100
18	Diabetes Risk Among Overweight and Obese Metabolically Healthy Young Adults. <i>Diabetes Care</i> , 2014, 37, 2989-2995.	4.3	100

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19	What can mitochondrial heterogeneity tell us about mitochondrial dynamics and autophagy?. International Journal of Biochemistry and Cell Biology, 2009, 41, 1914-1927.	1.2	99
20	Autoantibody explosion in antiphospholipid syndrome. Journal of Autoimmunity, 2008, 30, 74-83.	3.0	87
21	Adolescent Obesity and Early-Onset Type 2 Diabetes. Diabetes Care, 2020, 43, 1487-1495.	4.3	84
22	Systemic Thromboembolism in Inflammatory Bowel Disease: Mechanisms and Clinical Applications. Annals of the New York Academy of Sciences, 2005, 1051, 166-173.	1.8	82
23	Adolescent obesity and midlife cancer risk: a population-based cohort study of 2.3 million adolescents in Israel. Lancet Diabetes and Endocrinology, 2020, 8, 216-225.	5.5	80
24	Biophysical properties of mitochondrial fusion events in pancreatic Î²-cells and cardiac cells unravel potential control mechanisms of its selectivity. American Journal of Physiology - Cell Physiology, 2010, 299, C477-C487.	2.1	75
25	Organellar vs cellular control of mitochondrial dynamics. Seminars in Cell and Developmental Biology, 2010, 21, 575-581.	2.3	70
26	Mortality risk factors associated with familial Mediterranean fever among a cohort of 1.25 million adolescents. Annals of the Rheumatic Diseases, 2014, 73, 704-709.	0.5	70
27	BMI at Age 17 Years and Diabetes Mortality in Midlife: A Nationwide Cohort of 2.3 Million Adolescents. Diabetes Care, 2016, 39, 1996-2003.	4.3	69
28	Adolescent and Childhood Obesity and Excess Morbidity and Mortality in Young Adulthoodâ€”a Systematic Review. Current Obesity Reports, 2021, 10, 301-310.	3.5	62
29	Association of Adolescent Hypertension With Future End-stage Renal Disease. JAMA Internal Medicine, 2019, 179, 517.	2.6	58
30	Cognitive Function and the Risk for Diabetes Among Young Men. Diabetes Care, 2014, 37, 2982-2988.	4.3	56
31	White Blood Cell Count and the Risk for Coronary Artery Disease in Young Adults. PLoS ONE, 2012, 7, e47183.	1.1	55
32	Socioeconomic disparities and COVID-19 vaccination acceptance: a nationwide ecologic study. Clinical Microbiology and Infection, 2021, 27, 1502-1506.	2.8	51
33	Hypertension in late adolescence and cardiovascular mortality in midlife: a cohort study of 2.3 million 16- to 19-year-old examinees. Pediatric Nephrology, 2016, 31, 485-492.	0.9	45
34	Adolescent body mass index and risk of colon and rectal cancer in a cohort of 1.79 million Israeli men and women: A population-based study. Cancer, 2017, 123, 4022-4030.	2.0	45
35	High Normal Uric Acid Levels Are Associated with an Increased Risk of Diabetes in Lean, Normoglycemic Healthy Women. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3772-3778.	1.8	43
36	Severe obesity and cardio-metabolic comorbidities: a nationwide study of 2.8 million adolescents. International Journal of Obesity, 2019, 43, 1391-1399.	1.6	40

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37	Cognitive function in adolescence and the risk for premature diabetes and cardiovascular mortality in adulthood. <i>Cardiovascular Diabetology</i> , 2018, 17, 154.	2.7	37
38	Adolescence BMI and Trends in Adulthood Mortality: A Study of 2.16 Million Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 2095-2103.	1.8	33
39	Adolescent overweight and obesity and the risk for pancreatic cancer among men and women: a nationwide study of 1.79 million Israeli adolescents. <i>Cancer</i> , 2019, 125, 118-126.	2.0	33
40	Acne and obesity: A nationwide study of 600,404 adolescents. <i>Journal of the American Academy of Dermatology</i> , 2019, 81, 723-729.	0.6	31
41	Prehypertension among 2.19 million adolescents and future risk for end-stage renal disease. <i>Journal of Hypertension</i> , 2017, 35, 1290-1296.	0.3	29
42	Coronary artery disease risk among obese metabolically healthy young men. <i>European Journal of Endocrinology</i> , 2015, 173, 305-312.	1.9	23
43	Sex-specific associations between adolescent categories of BMI with cardiovascular and non-cardiovascular mortality in midlife. <i>Cardiovascular Diabetology</i> , 2018, 17, 80.	2.7	23
44	Childhood Pancreatitis and Risk for Incident Diabetes in Adulthood. <i>Diabetes Care</i> , 2020, 43, 145-151.	4.3	23
45	Body Mass Index in 1.9 Million Adolescents and Stroke in Young Adulthood. <i>Stroke</i> , 2021, 52, 2043-2052.	1.0	20
46	The Global Spread of Severe Obesity in Toddlers, Children, and Adolescents: A Systematic Review and Meta-Analysis. <i>Obesity Facts</i> , 2022, 15, 118-134.	1.6	19
47	Where periodontitis meets metabolic syndromeâ€”The role of common healthâ€related risk factors. <i>Journal of Oral Rehabilitation</i> , 2019, 46, 647-656.	1.3	18
48	Obesity in late adolescence and incident type 1 diabetes in young adulthood. <i>Diabetologia</i> , 2022, 65, 1473-1482.	2.9	18
49	Cognitive Performance at Late Adolescence and the Risk for Impaired Fasting Glucose Among Young Adults. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 4409-4416.	1.8	17
50	Renal glucosuria is associated with lower body weight and lower rates of elevated systolic blood pressure: results of a nationwide cross-sectional study of 2.5 million adolescents. <i>Cardiovascular Diabetology</i> , 2019, 18, 124.	2.7	17
51	Cardiovascular and Metabolic Risk Factors in Inherited Autoinflammation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E2123-E2128.	1.8	16
52	Height at Late Adolescence and Incident Diabetes among Young Men. <i>PLoS ONE</i> , 2015, 10, e0136464.	1.1	16
53	Childhood History of Resolved Glomerular Disease and Risk of Hypertension During Adulthood. <i>JAMA - Journal of the American Medical Association</i> , 2014, 311, 1155.	3.8	15
54	Sleep quality and risk of diabetes and coronary artery disease among young men. <i>Acta Diabetologica</i> , 2016, 53, 261-270.	1.2	15

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55	Adolescent Body Mass Index and Cardiovascular Disease—Specific Mortality by Midlife. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 3011-3020.	1.8	15
56	Body mass index at adolescence and risk of noncardia gastric cancer in a cohort of 1.79 million men and women. <i>Cancer</i> , 2018, 124, 356-363.	2.0	14
57	The association between obesity and hyperhidrosis: A nationwide, cross-sectional study of 2.77 million Israeli adolescents. <i>Journal of the American Academy of Dermatology</i> , 2019, 81, 624-627.	0.6	14
58	Synergistic amplification of $\beta$ -amyloid- and interferon- $\gamma$ -induced microglial neurotoxic response by the senile plaque component chromogranin A. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C169-C175.	2.1	13
59	Adolescent Nonalcoholic Fatty Liver Disease and Type 2 Diabetes in Young Adulthood. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e34-e44.	1.8	13
60	The actual burden of obesity—accounting for multimorbidity. <i>Lancet Diabetes and Endocrinology</i> , the, 2022, 10, 233-234.	5.5	13
61	Glucose Intolerance in Pregnancy and Offspring Obesity in Late Adolescence. <i>Diabetes Care</i> , 2022, 45, 1540-1548.	4.3	12
62	Sex Differences in the Impact of Thinness, Overweight, Obesity, and Parental Height on Adolescent Height. <i>Journal of Adolescent Health</i> , 2017, 61, 233-239.	1.2	11
63	Impact of Immigration on Body Mass Index and Blood Pressure Among Adolescent Males and Females. <i>Hypertension</i> , 2019, 74, 1316-1323.	1.3	11
64	Body Mass Index and Kidney Disease—Related Mortality in Midlife: A Nationwide Cohort of 2.3 Million Adolescents. <i>Obesity</i> , 2018, 26, 776-781.	1.5	10
65	Risk factors associated with gastroenteropancreatic neuroendocrine tumors in a cohort of 2.3 million Israeli adolescents. <i>International Journal of Cancer</i> , 2018, 143, 1876-1883.	2.3	10
66	The association between obesity and secular trend of stature: a nationwide study of 2.8 million adolescents over five decades. <i>International Journal of Obesity</i> , 2019, 43, 1932-1939.	1.6	10
67	Hypertension and childhood migration. <i>Journal of Hypertension</i> , 2019, 37, 702-709.	0.3	10
68	Allergic Rhinitis and Asthma Among Adolescents with Psoriasis: A Population-based Cross-sectional Study. <i>Acta Dermato-Venereologica</i> , 2020, 100, adv00133-5.	0.6	10
69	Immigration to Israel during childhood is associated with diabetes at adolescence: a study of 2.7 million adolescents. <i>Diabetologia</i> , 2017, 60, 2226-2230.	2.9	9
70	Adolescent BMI and early-onset type 2 diabetes among Ethiopian immigrants and their descendants: a nationwide study. <i>Cardiovascular Diabetology</i> , 2020, 19, 168.	2.7	9
71	Kidney failure risk in type 1 vs. type 2 childhood-onset diabetes mellitus. <i>Pediatric Nephrology</i> , 2021, 36, 333-340.	0.9	9
72	Adolescent Hypertension and Risk for Early-Onset Type 2 Diabetes: A Nationwide Study of 1.9 Million Israeli Adolescents. <i>Diabetes Care</i> , 2021, 44, e6-e8.	4.3	8

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73	Self-reported symptoms in healthy young adults to predict potential coronavirus disease 2019. <i>Clinical Microbiology and Infection</i> , 2021, 27, 618-623.	2.8	8
74	Adolescent Thyroid Disorders and Risk for Type 2 Diabetes in Young Adulthood. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e3426-e3435.	1.8	8
75	Attention-Deficit/Hyperactivity Disorder and Obesity: A National Study of 1.1 Million Israeli Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e1434-e1443.	1.8	8
76	Body-Mass Index in Adolescence and Cardiovascular Death in Adulthood. <i>New England Journal of Medicine</i> , 2016, 375, 1299-1301.	13.9	7
77	Myopia and Childhood Migration. <i>Ophthalmology</i> , 2020, 127, 713-723.	2.5	7
78	Height as a risk factor in meningioma: a study of 2 million Israeli adolescents. <i>BMC Cancer</i> , 2020, 20, 786.	1.1	7
79	Socioeconomic inequalities and severe obesity—Sex differences in a nationwide study of 1.12 million Israeli adolescents. <i>Pediatric Obesity</i> , 2020, 15, e12681.	1.4	7
80	Childhood Cancer and the Risk of ESKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 495-501.	3.0	7
81	Epileptic seizure vs. myocardial infarction: the significance of cardiac troponin levels. <i>Israel Medical Association Journal</i> , 2007, 9, 889-90.	0.1	7
82	Adolescent body mass index and changes in pre-pregnancy body mass index in relation to risk of gestational diabetes. <i>EClinicalMedicine</i> , 2021, 42, 101211.	3.2	6
83	Adolescent Blood Pressure and the Risk for Early Kidney Damage in Young Adulthood. <i>Hypertension</i> , 2022, 79, 974-983.	1.3	6
84	The immigration effect on obesity and overweight in Israeli Jewish male adolescents born 1970–1993. <i>Annals of Epidemiology</i> , 2014, 24, 424-431.	0.9	5
85	Acute pyelonephritis in children and the risk of end-stage kidney disease. <i>Journal of Nephrology</i> , 2021, 34, 1757-1765.	0.9	5
86	Height in adolescence as a risk factor for glioma subtypes: a nationwide retrospective cohort study of 2.2 million subjects. <i>Neuro-Oncology</i> , 2021, 23, 1383-1392.	0.6	5
87	Congenital Anomalies of the Kidney and Urinary Tract and Adulthood risk of Urinary Tract Cancer. <i>Kidney International Reports</i> , 2021, 6, 946-952.	0.4	5
88	The opposing trends of body mass index and blood pressure during 1977–2020; nationwide registry of 2.8 million male and female adolescents. <i>Cardiovascular Diabetology</i> , 2021, 20, 242.	2.7	5
89	Self-Perceived Emotional Distress and Diabetes Risk Among Young Men. <i>American Journal of Preventive Medicine</i> , 2016, 50, 737-745.	1.6	4
90	Ethnic Variability Among Jews is Associated With Hypertension: Results of a Nationwide Study of 1.44 Million Adolescents. <i>American Journal of Hypertension</i> , 2020, 33, 175-181.	1.0	4

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91	Obesity and sleep disorders: A nationwide study of 1.3 million Israeli adolescents. <i>Obesity Research and Clinical Practice</i> , 2020, 14, 542-547.	0.8	4
92	Adolescent characteristics and incidence of pre-malignant disease and invasive tumors of the cervix. <i>International Journal of Gynecological Cancer</i> , 2020, 30, 959-968.	1.2	4
93	Stuttering and Incident Type 2 Diabetes: A Population-Based Study of 2.2 Million Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e978-e987.	1.8	4
94	Adolescent cognitive function and incident early-onset type 2 diabetes. <i>EClinicalMedicine</i> , 2021, 41, 101138.	3.2	4
95	Associations between Exposure to Industrial Air Pollution and Prevalence of Asthma and Atopic Diseases in Haifa Bay Area. <i>Atmosphere</i> , 2021, 12, 516.	1.0	3
96	SARS-CoV-2 Epidemic in the Israeli Defense Force—Lessons Learned From Our rt-PCR Screening Policy. <i>Military Medicine</i> , 2023, 188, e65-e68.	0.4	3
97	Myopia and Early-Onset Type 2 Diabetes: A Nationwide Cohort Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e663-e671.	1.8	3
98	Reply to Adolescent body mass index and risk of colon and rectal cancer in a cohort of 1.79 million Israeli men and women: A population-based study. <i>Cancer</i> , 2018, 124, 213-213.	2.0	2
99	Echoes from the past- changing associations between brain tumors and ethnicity. <i>Journal of the Neurological Sciences</i> , 2020, 408, 116552.	0.3	2
100	Asthma in Youth and Early-onset Type 2 Diabetes: A Nationwide Study of 1.72 Million Israeli Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e5043-e5053.	1.8	2
101	A spotlight on obesity prevention. <i>Lancet Diabetes and Endocrinology</i> , 2021, 9, 645-646.	5.5	2
102	Reply to The relationship between obesity in adolescence and pancreatic cancer in adulthood. <i>Cancer</i> , 2019, 125, 2132-2133.	2.0	1
103	Personality disorders and cause-specific mortality: a nationwide study of 2 million adolescents. <i>Psychological Medicine</i> , 2020, , 1-9.	2.7	1
104	Associations of Exposure to Nitrogen Oxides with Prevalent Asthma and Other Atopic Diseases in Israel. <i>Environments - MDPI</i> , 2021, 8, 110.	1.5	1
105	Effect of a tailor-made continuous medical education program for primary care physicians on self-perception of physicians' roles and quality of care. <i>Israel Medical Association Journal</i> , 2010, 12, 521-5.	0.1	1
106	Autophagy in the Homeostasis of Pancreatic Î²-Cells. , 2013, , 89-100.		0
107	EPID-02. HEIGHT AND THE RISK OF MENINGIOMA. <i>Neuro-Oncology</i> , 2019, 21, vi74-vi74.	0.6	0
108	Short Communication: Combining Ethics With Efficiency—Israel Defense Forces' Experience in Clinical Trials During the Coronavirus Disease 2019 Pandemic. <i>Journal of Empirical Research on Human Research Ethics</i> , 2021, 16, 193-199.	0.6	0

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109	Recurrent and bilateral deep vein thrombosis in a Crohn's patient. Israel Medical Association Journal, 2005, 7, 612-3.	0.1	0
110	Adolescent Immigration and Type-2 Diabetes. Current Diabetes Reports, 2021, 21, 60.	1.7	0