

# Nathan L Tintle

## List of Publications by Year in descending order

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Version: 2024-02-01

129  
papers

3,747  
citations

218677

26  
h-index

155660

55  
g-index

143  
all docs

143  
docs citations

143  
times ranked

5854  
citing authors

#	ARTICLE	IF	CITATIONS
1	KBase: The United States Department of Energy Systems Biology Knowledgebase. <i>Nature Biotechnology</i> , 2018, 36, 566-569.	17.5	955
2	Omega-6 fatty acid biomarkers and incident type 2 diabetes: pooled analysis of individual-level data for 39â€740 adults from 20 prospective cohort studies. <i>Lancet Diabetes and Endocrinology</i> , 2017, 5, 965-974.	11.4	213
3	Biomarkers of Dietary Omega-6 Fatty Acids and Incident Cardiovascular Disease and Mortality. <i>Circulation</i> , 2019, 139, 2422-2436.	1.6	199
4	Fatty acid biomarkers of dairy fat consumption and incidence of type 2 diabetes: A pooled analysis of prospective cohort studies. <i>PLoS Medicine</i> , 2018, 15, e1002670.	8.4	143
5	The Omega-3 Index and relative risk for coronary heart disease mortality: Estimation from 10 cohort studies. <i>Atherosclerosis</i> , 2017, 262, 51-54.	0.8	138
6	Epidemiology of psychiatric and alcohol disorders in Ukraine. <i>Social Psychiatry and Psychiatric Epidemiology</i> , 2005, 40, 681-690.	3.1	136
7	Blood n-3 fatty acid levels and total and cause-specific mortality from 17 prospective studies. <i>Nature Communications</i> , 2021, 12, 2329.	12.8	132
8	The epidemiology of alcohol use disorders cross-nationally: Findings from the World Mental Health Surveys. <i>Addictive Behaviors</i> , 2020, 102, 106128.	3.0	108
9	Erythrocyte long-chain omega-3 fatty acid levels are inversely associated with mortality and with incident cardiovascular disease: The Framingham Heart Study. <i>Journal of Clinical Lipidology</i> , 2018, 12, 718-727.e6.	1.5	91
10	Blood omega-3 fatty acids and death from COVID-19: A pilot study. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 166, 102250.	2.2	81
11	Predicting the effects of supplemental EPA and DHA on the omega-3 index. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 1034-1040.	4.7	63
12	EPIDEMIOLOGY OF HEAVY ALCOHOL USE IN UKRAINE: FINDINGS FROM THE WORLD MENTAL HEALTH SURVEY. <i>Alcohol and Alcoholism</i> , 2005, 40, 327-335.	1.6	58
13	Descriptive epidemiology of intimate partner aggression in Ukraine. <i>Social Psychiatry and Psychiatric Epidemiology</i> , 2008, 43, 619-626.	3.1	56
14	Risk factors for physical violence against partners in the U.S.. <i>Psychology of Violence</i> , 2014, 4, 65-77.	1.5	53
15	n-3 Fatty Acid Biomarkers and Incident Type 2 Diabetes: An Individual Participant-Level Pooling Project of 20 Prospective Cohort Studies. <i>Diabetes Care</i> , 2021, 44, 1133-1142.	8.6	50
16	Comparing gene set analysis methods on single-nucleotide polymorphism data from Genetic Analysis Workshop 16. <i>BMC Proceedings</i> , 2009, 3, S96.	1.6	45
17	Inference of the Transcriptional Regulatory Network in <i>Staphylococcus aureus</i> by Integration of Experimental and Genomics-Based Evidence. <i>Journal of Bacteriology</i> , 2011, 193, 3228-3240.	2.2	45
18	Diarrhea prevalence in a randomized, controlled prospective trial of point-of-use water filters in homes and schools in the Dominican Republic. <i>Tropical Medicine and Health</i> , 2021, 49, 1.	2.8	44

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19	Associations of circulating very-long-chain saturated fatty acids and incident type 2 diabetes: a pooled analysis of prospective cohort studies. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 1216-1223.	4.7	39
20	Fatty acids in the de novo lipogenesis pathway and incidence of type 2 diabetes: A pooled analysis of prospective cohort studies. <i>PLoS Medicine</i> , 2020, 17, e1003102.	8.4	38
21	Assessing Methods for Assigning SNPs to Genes in Gene-Based Tests of Association Using Common Variants. <i>PLoS ONE</i> , 2013, 8, e62161.	2.5	38
22	The Stateâ€“Trait Hopelessness Scale. <i>Western Journal of Nursing Research</i> , 2014, 36, 552-570.	1.4	37
23	Suicide ideation, plans and attempts in Ukraine: findings from the Ukraine World Mental Health Survey. <i>Psychological Medicine</i> , 2007, 37, 807-819.	4.5	32
24	Development and Assessment of a Preliminary Randomization-Based Introductory Statistics Curriculum. <i>Journal of Statistics Education</i> , 2011, 19, .	1.4	31
25	The Associations between Self-Reported Exposure to the Chernobyl Nuclear Disaster Zone and Mental Health Disorders in Ukraine. <i>Frontiers in Psychiatry</i> , 2018, 9, 32.	2.6	28
26	Evaluating methods for the analysis of rare variants in sequence data. <i>BMC Proceedings</i> , 2011, 5, S119.	1.6	27
27	Association of Cohort and Individual Substance Use With Risk of Transitioning to Drug Use, Drug Use Disorder, and Remission From Disorder. <i>JAMA Psychiatry</i> , 2019, 76, 708.	11.0	27
28	Combating Anti-Statistical Thinking Using Simulation-Based Methods Throughout the Undergraduate Curriculum. <i>American Statistician</i> , 2015, 69, 362-370.	1.6	26
29	A genome-wide association study of red-blood cell fatty acids and ratios incorporating dietary covariates: Framingham Heart Study Offspring Cohort. <i>PLoS ONE</i> , 2018, 13, e0194882.	2.5	26
30	Inflated type I error rates when using aggregation methods to analyze rare variants in the 1000 Genomes Project exon sequencing data in unrelated individuals: summary results from Group 7 at Genetic Analysis Workshop 17. <i>Genetic Epidemiology</i> , 2011, 35, S56-60.	1.3	23
31	Comparing machine learning and logistic regression methods for predicting hypertension using a combination of gene expression and next-generation sequencing data. <i>BMC Proceedings</i> , 2016, 10, 141-145.	1.6	23
32	Using Duplicate Genotyped Data in Genetic Analyses: Testing Association and Estimating Error Rates. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2007, 6, Article4.	0.6	22
33	Depression and its correlates in older adults in Ukraine. <i>International Journal of Geriatric Psychiatry</i> , 2011, 26, 1292-1299.	2.7	22
34	Red blood cell fatty acid patterns from 7 countries: Focus on the Omega-3 index. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2022, 179, 102418.	2.2	21
35	Pathway Analysis Approaches for Rare and Common Variants: Insights From Genetic Analysis Workshop 18. <i>Genetic Epidemiology</i> , 2014, 38, S86-91.	1.3	19
36	Erythrocyte n-6 Fatty Acids and Risk for Cardiovascular Outcomes and Total Mortality in the Framingham Heart Study. <i>Nutrients</i> , 2018, 10, 2012.	4.1	19

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37	Identification of genetic association of multiple rare variants using collapsing methods. <i>Genetic Epidemiology</i> , 2011, 35, S101-6.	1.3	18
38	Assessing the Impact of Non-Differential Genotyping Errors on Rare Variant Tests of Association. <i>Human Heredity</i> , 2011, 72, 153-160.	0.8	18
39	A Geometric Framework for Evaluating Rare Variant Tests of Association. <i>Genetic Epidemiology</i> , 2013, 37, 345-357.	1.3	18
40	Using an erythrocyte fatty acid fingerprint to predict risk of all-cause mortality: the Framingham Offspring Cohort. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1447-1454.	4.7	18
41	Assessing the Impact of Differential Genotyping Errors on Rare Variant Tests of Association. <i>PLoS ONE</i> , 2013, 8, e56626.	2.5	18
42	Free fatty acid receptor 4 responds to endogenous fatty acids to protect the heart from pressure overload. <i>Cardiovascular Research</i> , 2022, 118, 1061-1073.	3.8	17
43	Common Pitfalls in Analysis of Tissue Scores. <i>Veterinary Pathology</i> , 2019, 56, 39-42.	1.7	16
44	Student Performance in Curricula Centered on Simulation-Based Inference: A Preliminary Report. <i>Journal of Statistics Education</i> , 2016, 24, 114-126.	1.4	14
45	Red Blood Cell DHA Is Inversely Associated with Risk of Incident Alzheimer's Disease and All-Cause Dementia: Framingham Offspring Study. <i>Nutrients</i> , 2022, 14, 2408.	4.1	14
46	Gene set analyses for interpreting microarray experiments on prokaryotic organisms. <i>BMC Bioinformatics</i> , 2008, 9, 469.	2.6	13
47	Smoking initiation and nicotine dependence symptoms in Ukraine: Findings from the Ukraine World Mental Health survey. <i>Public Health</i> , 2007, 121, 663-672.	2.9	12
48	The Cost Effectiveness of Duplicate Genotyping for Testing Genetic Association. <i>Annals of Human Genetics</i> , 2009, 73, 370-378.	0.8	12
49	Genetic Analysis Workshop 18: Methods and strategies for analyzing human sequence and phenotype data in members of extended pedigrees. <i>BMC Proceedings</i> , 2014, 8, S1.	1.6	12
50	A general approach for combining diverse rare variant association tests provides improved robustness across a wider range of genetic architectures. <i>European Journal of Human Genetics</i> , 2016, 24, 767-773.	2.8	12
51	Impact of Home- and Hospital-Based Exercise in Cardiac Rehabilitation on Hopelessness in Patients With Coronary Heart Disease. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , 2017, 37, 39-48.	2.1	12
52	Mentoring Undergraduate Research in Statistics: Reaping the Benefits and Overcoming the Barriers. <i>Journal of Statistics Education</i> , 2020, 28, 140-153.	1.4	12
53	Prolonged fatigue in Ukraine and the United States: prevalence and risk factors. <i>Fatigue: Biomedicine, Health and Behavior</i> , 2015, 3, 33-46.	1.9	11
54	Cautions about the reliability of pairwise gene correlations based on expression data. <i>Frontiers in Microbiology</i> , 2015, 6, 650.	3.5	11

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55	Evaluating methods for combining rare variant data in pathway-based tests of genetic association. BMC Proceedings, 2011, 5, S48.	1.6	10
56	Home- and Hospital-Based Cardiac Rehabilitation Exercise. Western Journal of Nursing Research, 2017, 39, 214-233.	1.4	9
57	Genome-Wide Interaction Study of Omega-3 PUFAs and Other Fatty Acids on Inflammatory Biomarkers of Cardiovascular Health in the Framingham Heart Study. Nutrients, 2017, 9, 900.	4.1	9
58	Adult correlates of adverse childhood experiences in Ukraine. Child Abuse and Neglect, 2020, 107, 104617.	2.6	9
59	Lack of perceived social support in patients with ischemic heart disease is associated with hopelessness. Archives of Psychiatric Nursing, 2020, 34, 14-16.	1.4	9
60	Association of the Omega-3 Index with Incident Prostate Cancer with Updated Meta-Analysis: The Cooper Center Longitudinal Study. Nutrients, 2021, 13, 384.	4.1	9
61	Incorporating Duplicate Genotype Data into Linear Trend Tests of Genetic Association: Methods and Cost-Effectiveness. Statistical Applications in Genetics and Molecular Biology, 2009, 8, 1-20.	0.6	8
62	Evaluating the consistency of gene sets used in the analysis of bacterial gene expression data. BMC Bioinformatics, 2012, 13, 193.	2.6	8
63	Optimal Methods for Using Posterior Probabilities in Association Testing. Human Heredity, 2013, 75, 2-11.	0.8	8
64	Assessing the Association Between Precourse Metrics of Student Preparation and Student Performance in Introductory Statistics: Results from Early Data on Simulation-Based Inference vs. Nonsimulation-Based Inference. Journal of Statistics Education, 2018, 26, 103-109.	1.4	8
65	Transcriptome assembly and annotation of johnsongrass ( <i>Sorghum halepense</i> ) rhizomes identify candidate rhizome-specific genes. Plant Direct, 2018, 2, e00065.	1.9	8
66	Evaluating the efficacy of point-of-use water filtration units in Fiji. Tropical Medicine and Health, 2019, 47, 48.	2.8	8
67	Sugar-Sweetened Beverage Consumption May Modify Associations Between Genetic Variants in the CHREBP (Carbohydrate Responsive Element Binding Protein) Locus and HDL-C (High-Density Lipoprotein) Tj ETQq1_10.784314 rgBT e003288.	3.6	8
68	<i>Trans</i> Fatty Acid Biomarkers and Incident Type 2 Diabetes: Pooled Analysis of 12 Prospective Cohort Studies in the Fatty Acids and Outcomes Research Consortium (FORCE). Diabetes Care, 2022, 45, 854-863.	8.6	8
69	Evaluating the impact of genotype errors on rare variant tests of association. Frontiers in Genetics, 2014, 5, 62.	2.3	7
70	Computing and Applying Atomic Regulons to Understand Gene Expression and Regulation. Frontiers in Microbiology, 2016, 7, 1819.	3.5	7
71	Dog Ownership and Dog Walking. Journal of Cardiovascular Nursing, 2018, 33, E7-E14.	1.1	7
72	Reliability and Validity of the State-Trait Hopelessness Scale in Patients With Heart Disease and Moderate to Severe Hopelessness. Journal of Cardiovascular Nursing, 2020, 35, 126-130.	1.1	7

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73	Effects of menopausal hormone therapy on erythrocyte $\omega$ -3 and $\omega$ -6 PUFA concentrations in the Women's Health Initiative randomized trial. <i>American Journal of Clinical Nutrition</i> , 2021, 113, 1700-1706.	4.7	7
74	Omega-3 index is directly associated with a healthy red blood cell distribution width. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2022, 176, 102376.	2.2	7
75	The associations between traumatic experiences and subsequent onset of a substance use disorder: Findings from the World Health Organization World Mental Health surveys. <i>Drug and Alcohol Dependence</i> , 2022, 240, 109574.	3.2	7
76	Enhancing physical activity in cardiac patients who report hopelessness: Feasibility testing of an intervention. <i>Health Education Journal</i> , 2019, 78, 226-237.	1.2	6
77	Heart up! RCT protocol to increase physical activity in cardiac patients who report hopelessness: Amended for the COVID-19 pandemic. <i>Research in Nursing and Health</i> , 2021, 44, 279-294.	1.6	6
78	Evaluating the concordance between sequencing, imputation and microarray genotype calls in the GAW18 data. <i>BMC Proceedings</i> , 2014, 8, S22.	1.6	5
79	Application of family-based tests of association for rare variants to pathways. <i>BMC Proceedings</i> , 2014, 8, S105.	1.6	5
80	Epigenome wide association study of SNP-CpG interactions on changes in triglyceride levels after pharmaceutical intervention: a GAW20 analysis. <i>BMC Proceedings</i> , 2018, 12, 58.	1.6	5
81	The omega-3 index is inversely associated with the neutrophil-lymphocyte ratio in adults. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2022, 177, 102397.	2.2	5
82	A general method for combining different family-based rare-variant tests of association to improve power and robustness of a wide range of genetic architectures. <i>BMC Proceedings</i> , 2016, 10, 165-170.	1.6	4
83	Illustrating, Quantifying, and Correcting for Bias in Post-hoc Analysis of Gene-Based Rare Variant Tests of Association. <i>Frontiers in Genetics</i> , 2017, 8, 117.	2.3	4
84	Epidemiology of chronic pain in Ukraine: Findings from the World Mental Health Survey. <i>PLoS ONE</i> , 2019, 14, e0224084.	2.5	4
85	Omega-3 Fatty Acid Biomarkers and Sleep: Pooled Analysis of Prospective Studies in the Fatty Acids and Outcome Research Consortium (FORCE). <i>Current Developments in Nutrition</i> , 2020, 4, nzaa061_088.	0.3	4
86	Higher omega-3 index is associated with more rapid heart rate recovery in healthy men and women. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2020, 163, 102206.	2.2	4
87	Leveraging summary statistics to make inferences about complex phenotypes in large biobanks. , 2018, , .		4
88	Value of Mendelian Laws of Segregation in Families: Data Quality Control, Imputation, and Beyond. <i>Genetic Epidemiology</i> , 2014, 38, S21-8.	1.3	3
89	Evaluation of the power and type I error of recently proposed family-based tests of association for rare variants. <i>BMC Proceedings</i> , 2014, 8, S36.	1.6	3
90	A Bayesian Framework for the Classification of Microbial Gene Activity States. <i>Frontiers in Microbiology</i> , 2016, 7, 1191.	3.5	3

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91	Trans Fatty Acid Biomarkers and Incident Type 2 Diabetes: Pooled Analysis from 10 Prospective Cohort Studies in the Fatty Acids and Outcome Research Consortium (FORCE) (OR33-02-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz039.OR33-02-19.	0.3	3
92	Aspirin and omega-3 fatty acid status interact in the prevention of cardiovascular diseases in Framingham Heart Study. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 169, 102283.	2.2	3
93	Computationally efficient, exact, covariate-adjusted genetic principal component analysis by leveraging individual marker summary statistics from large biobanks. , 2019, , .		3
94	Leveraging summary statistics to make inferences about complex phenotypes in large biobanks. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2019, 24, 391-402.	0.7	3
95	A novel approach to identify optimal metabolotypes of elongase and desaturase activities in prevention of acute coronary syndrome. <i>Metabolomics</i> , 2015, 11, 1327-1337.	3.0	2
96	A multistep approach to single nucleotide polymorphism set analysis: an evaluation of power and type I error of gene-based tests of association after pathway-based association tests. <i>BMC Proceedings</i> , 2016, 10, 349-355.	1.6	2
97	Evaluating the performance of gene-based tests of genetic association when testing for association between methylation and change in triglyceride levels at GAW20. <i>BMC Proceedings</i> , 2018, 12, 50.	1.6	2
98	GAW20: methods and strategies for the new frontiers of epigenetics and pharmacogenomics. <i>BMC Proceedings</i> , 2018, 12, 26.	1.6	2
99	Abstract 43: Circulating Omega-3 Fatty Acid Levels and Total and Cause-specific Mortality: Prospective Evidence From 14 Cohorts in the Fatty Acids and Outcomes Research Consortium. <i>Circulation</i> , 2020, 141, .	1.6	2
100	Computationally efficient, exact, covariate-adjusted genetic principal component analysis by leveraging individual marker summary statistics from large biobanks. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2020, 25, 719-730.	0.7	2
101	Plasma fatty acid responses to a calorie-restricted, DASH-style diet with lean beef. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2022, 179, 102413.	2.2	2
102	The Cost-Effectiveness of Reclassification Sampling for Prevalence Estimation. <i>PLoS ONE</i> , 2012, 7, e32058.	2.5	1
103	IDENTIFICATION AND ANALYSIS OF BACTERIAL GENOMIC METABOLIC SIGNATURES. , 2017, 22, 3-14.		1
104	A POWERFUL METHOD FOR INCLUDING GENOTYPE UNCERTAINTY IN TESTS OF HARDY-WEINBERG EQUILIBRIUM. , 2017, 22, 368-379.		1
105	Application of novel and existing methods to identify genes with evidence of epigenetic association: results from GAW20. <i>BMC Genetics</i> , 2018, 19, 72.	2.7	1
106	Savings. , 2018, , 3-79.		1
107	Ethnic minority members may be at risk for state hopelessness following hospitalization for ischemic heart disease. <i>Archives of Psychiatric Nursing</i> , 2019, 33, 51-56.	1.4	1
108	Multi-Set Testing Strategies Show Good Behavior When Applied to Very Large Sets of Rare Variants. <i>Frontiers in Genetics</i> , 2020, 11, 591606.	2.3	1

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109	STUB Network: Statisticians and Biologists Improving Statistics Education in Introductory Biology. FASEB Journal, 2020, 34, 1-1.	0.5	1
110	Abstract P414: Biomarkers of Very Long-chain Saturated Fatty Acids and Incident Coronary Heart Disease: Prospective Evidence From 15 Cohorts in the Fatty Acids and Outcomes Research Consortium. Circulation, 2020, 141, .	1.6	1
111	Negotiating for Release Time and Leave. Notices of the American Mathematical Society, 2016, 63, 562-564.	0.2	1
112	Analyzing metabolomics data for association with genotypes using two-component Gaussian mixture distributions. , 2018, , .		1
113	Implementing and evaluating a Gaussian mixture framework for identifying gene function from TnSeq data. , 2018, , .		1
114	PUFA $\omega$ -3 and $\omega$ -6 biomarkers and sleep: a pooled analysis of cohort studies on behalf of the Fatty Acids and Outcomes Research Consortium (FORCE). American Journal of Clinical Nutrition, 2022, 115, 864-876.	4.7	1
115	IMPROVED PERFORMANCE OF GENE SET ANALYSIS ON GENOME-WIDE TRANSCRIPTOMICS DATA WHEN USING GENE ACTIVITY STATE ESTIMATES. , 2017, 22, 449-460.		0
116	Loans. , 2018, , 81-134.		0
117	Portfolios. , 2018, , 219-288.		0
118	Annuities. , 2018, , 135-171.		0
119	Stocks and Bonds. , 2018, , 173-217.		0
120	Savings Revisited. , 2018, , 291-335.		0
121	Loans Revisited. , 2018, , 337-370.		0
122	Annuities Revisited. , 2018, , 371-438.		0
123	Bonds Revisited. , 2018, , 439-487.		0
124	Portfolios Revisited. , 2018, , 489-544.		0
125	Is the Omega-3 Index Higher in Coastal Than Inland US Cities?. Current Developments in Nutrition, 2021, 5, 1039.	0.3	0
126	Investigating Rurality as a Risk Factor for State and Trait Hopelessness in Hospitalized Patients With Ischemic Heart Disease. Journal of the American Heart Association, 2021, 10, e020768.	3.7	0



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127	Using Summary Statistics to Model Multiplicative Combinations of Initially Analyzed Phenotypes With a Flexible Choice of Covariates. <i>Frontiers in Genetics</i> , 2021, 12, 745901.	2.3	0
128	Abstract 034: Omega-3 Fatty Acid Biomarkers and Incident Type 2 Diabetes: An Individual Participant-level Pooling Project of 20 Prospective Cohort Studies. <i>Circulation</i> , 2019, 139, .	1.6	0
129	The Omega-3 Index is Higher in People from a Coastal Town versus Five Inland US Cities: An Observational Study. <i>Nutrition Research</i> , 2022, , .	2.9	0