

# Alun Thomas

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

5,615  
citations

257101

24  
h-index

79541

73  
g-index

105  
all docs

105  
docs citations

105  
times ranked

7925  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Draft Sequence of the Rice Genome ( <i>Oryza sativa</i> L. ssp. japonica). <i>Science</i> , 2002, 296, 92-100.	6.0	2,866
2	A candidate prostate cancer susceptibility gene at chromosome 17p. <i>Nature Genetics</i> , 2001, 27, 172-180.	9.4	504
3	Classification of rare missense substitutions, using risk surfaces, with genetic- and molecular-epidemiology applications. <i>Human Mutation</i> , 2008, 29, 1342-1354.	1.1	209
4	Forecasting Daily Patient Volumes in the Emergency Department. <i>Academic Emergency Medicine</i> , 2008, 15, 159-170.	0.8	203
5	Rare, Evolutionarily Unlikely Missense Substitutions in ATM Confer Increased Risk of Breast Cancer. <i>American Journal of Human Genetics</i> , 2009, 85, 427-446.	2.6	165
6	A multivariate time series approach to modeling and forecasting demand in the emergency department. <i>Journal of Biomedical Informatics</i> , 2009, 42, 123-139.	2.5	118
7	Multilocus linkage analysis by blocked Gibbs sampling. <i>Statistics and Computing</i> , 2000, 10, 259-269.	0.8	103
8	Calibration of Multiple In Silico Tools for Predicting Pathogenicity of Mismatch Repair Gene Missense Substitutions. <i>Human Mutation</i> , 2013, 34, 255-265.	1.1	80
9	Shared Genomic Segment Analysis. Mapping Disease Predisposition Genes in Extended Pedigrees Using SNP Genotype Assays. <i>Annals of Human Genetics</i> , 2008, 72, 279-287.	0.3	78
10	Rare, evolutionarily unlikely missense substitutions in CHEK2 contribute to breast cancer susceptibility: results from a breast cancer family registry case-control mutation-screening study. <i>Breast Cancer Research</i> , 2011, 13, R6.	2.2	74
11	A probabilistic model for detecting coding regions in DNA sequences. <i>Mathematical Medicine and Biology</i> , 1994, 11, 149-160.	0.8	73
12	Evaluation of record linkage between a large healthcare provider and the Utah Population Database. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2012, 19, e54-e59.	2.2	59
13	Automated size selection for short cell-free DNA fragments enriches for circulating tumor DNA and improves error correction during next generation sequencing. <i>PLoS ONE</i> , 2018, 13, e0197333.	1.1	55
14	Linkage of body mass index to chromosome 20 in Utah pedigrees. <i>Human Genetics</i> , 2001, 109, 279-285.	1.8	51
15	Extending the Fellegi-Sunter probabilistic record linkage method for approximate field comparators. <i>Journal of Biomedical Informatics</i> , 2010, 43, 24-30.	2.5	51
16	Graphical Modeling of the Joint Distribution of Alleles at Associated Loci. <i>American Journal of Human Genetics</i> , 2004, 74, 1088-1101.	2.6	38
17	Genome-wide association of familial prostate cancer cases identifies evidence for a rare segregating haplotype at 8q24.21. <i>Human Genetics</i> , 2016, 135, 923-938.	1.8	37
18	Genomic mismatch scanning in pedigrees. <i>Mathematical Medicine and Biology</i> , 1994, 11, 1-16.	0.8	32

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19	An Analysis of Unclassified Missense Substitutions in Human BRCA1. <i>Familial Cancer</i> , 2006, 5, 77-88.	0.9	32
20	Cancer Risk in Families Fulfilling the Amsterdam Criteria for Lynch Syndrome. <i>JAMA Oncology</i> , 2017, 3, 1697.	3.4	32
21	Novel pedigree analysis implicates DNA repair and chromatin remodeling in multiple myeloma risk. <i>PLoS Genetics</i> , 2018, 14, e1007111.	1.5	30
22	Replication of the 10q11 and Xp11 Prostate Cancer Risk Variants: Results from a Utah Pedigree-Based Study. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2009, 18, 1290-1294.	1.1	29
23	A Robust Multipoint Linkage Statistic (tlod) for Mapping Complex Trait Loci. <i>Genetic Epidemiology</i> , 2001, 21, S492-7.	0.6	24
24	GCHap: fast MLEs for haplotype frequencies by gene counting. <i>Bioinformatics</i> , 2003, 19, 2002-2003.	1.8	24
25	Population-based risk assessment for other cancers in relatives of hereditary prostate cancer (HPC) cases. <i>Prostate</i> , 2005, 64, 347-355.	1.2	24
26	A unique genome-wide association analysis in extended Utah high-risk pedigrees identifies a novel melanoma risk variant on chromosome arm 10q. <i>Human Genetics</i> , 2012, 131, 77-85.	1.8	24
27	Characterizing allelic associations from unphased diploid data by graphical modeling. <i>Genetic Epidemiology</i> , 2005, 29, 23-35.	0.6	23
28	A Nonsynonymous Variant in the GOLM1 Gene in Cutaneous Malignant Melanoma. <i>Journal of the National Cancer Institute</i> , 2018, 110, 1380-1385.	3.0	23
29	Optimal Computation of Probability Functions for Pedigree Analysis. <i>Mathematical Medicine and Biology</i> , 1986, 3, 167-178.	0.8	22
30	Familial Associations between Cancer Sites. <i>Journal of Biomedical Informatics</i> , 1999, 32, 517-529.	0.7	20
31	Enumerating the Junction Trees of a Decomposable Graph. <i>Journal of Computational and Graphical Statistics</i> , 2009, 18, 930-940.	0.9	18
32	Shared Genomic Segment Analysis: The Power to Find Rare Disease Variants. <i>Annals of Human Genetics</i> , 2012, 76, 500-509.	0.3	18
33	Characterization of linkage disequilibrium structure, mutation history, and tagging SNPs, and their use in association analyses:ELAC2 and familial early-onset prostate cancer. <i>Genetic Epidemiology</i> , 2005, 28, 232-243.	0.6	17
34	Evidence for Linkage on Chromosome 3q25-27 in a Large Autism Extended Pedigree. <i>Human Heredity</i> , 2005, 60, 220-226.	0.4	17
35	Identification of regions of positive selection using Shared Genomic Segment analysis. <i>European Journal of Human Genetics</i> , 2011, 19, 667-671.	1.4	17
36	Association Between Contact Precautions and Transmission of Methicillin-Resistant <i>Staphylococcus aureus</i> in Veterans Affairs Hospitals. <i>JAMA Network Open</i> , 2021, 4, e210971.	2.8	16

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37	Towards Linkage Analysis with Markers in Linkage Disequilibrium by Graphical Modelling. <i>Human Heredity</i> , 2007, 64, 16-26.	0.4	15
38	Software Trapping: A Strategy for Finding Genes in Large Genomic Regions. <i>Journal of Biomedical Informatics</i> , 1995, 28, 140-153.	0.7	14
39	GMCheck: Bayesian error checking for pedigreegenotypes and phenotypes. <i>Bioinformatics</i> , 2005, 21, 3187-3188.	1.8	14
40	Estimation of graphical models whose conditional independence graphs are interval graphs and its application to modelling linkage disequilibrium. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 1818-1828.	0.7	14
41	Assessment of SNP streak statistics using gene drop simulation with linkage disequilibrium. <i>Genetic Epidemiology</i> , 2010, 34, 119-124.	0.6	13
42	Comparison of an exact and a simulation method for calculating gene extinction probabilities in pedigrees. <i>Zoo Biology</i> , 1990, 9, 259-274.	0.5	12
43	A New Nonparametric Linkage Statistic for Mapping Both Qualitative and Quantitative Trait Loci. <i>Genetic Epidemiology</i> , 2001, 21, S461-6.	0.6	12
44	Accelerated Gene Counting for Haplotype Frequency Estimation. <i>Annals of Human Genetics</i> , 2003, 67, 608-612.	0.3	12
45	Accuracy and Computational Efficiency of a Graphical Modeling Approach to Linkage Disequilibrium Estimation. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2011, 10, Article 5.	0.2	12
46	Analysis of high-density single-nucleotide polymorphism data: three novel methods that control for linkage disequilibrium between markers in a linkage analysis. <i>BMC Proceedings</i> , 2007, 1, S160.	1.8	11
47	Creation of a national resource with linked genealogy and phenotypic data: the Veterans Genealogy Project. <i>Genetics in Medicine</i> , 2013, 15, 541-547.	1.1	11
48	Identification of specific Y chromosomes associated with increased prostate cancer risk. <i>Prostate</i> , 2014, 74, 991-998.	1.2	11
49	A Dynamic Transmission Model to Evaluate the Effectiveness of Infection Control Strategies. <i>Open Forum Infectious Diseases</i> , 2017, 4, ofw247.	0.4	11
50	The impact of a growing minority population on identification of duplicate records in an enterprise data warehouse. <i>Studies in Health Technology and Informatics</i> , 2010, 160, 1122-6.	0.2	11
51	Approximate Computation of Probability Functions for Pedigree Analysis. <i>Mathematical Medicine and Biology</i> , 1986, 3, 157-166.	0.8	10
52	Use of Strain Typing Data to Estimate Bacterial Transmission Rates in Healthcare Settings. <i>Infection Control and Hospital Epidemiology</i> , 2005, 26, 638-645.	1.0	10
53	A method and program for estimating graphical models for linkage disequilibrium that scale linearly with the number of loci, and their application to gene drop simulation. <i>Bioinformatics</i> , 2009, 25, 1287-1292.	1.8	10
54	Cold sore susceptibility gene-1 genotypes affect the expression of herpes labialis in unrelated human subjects. <i>Human Genome Variation</i> , 2014, 1, 14024.	0.4	10

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55	Efficient parameter estimation for models of healthcare-associated pathogen transmission in discrete and continuous time. <i>Mathematical Medicine and Biology</i> , 2015, 32, 81-100.	0.8	10
56	Extended models for nosocomial infection: parameter estimation and model selection. <i>Mathematical Medicine and Biology</i> , 2018, 35, i29-i49.	0.8	10
57	Maximum likelihood estimates of allele frequencies and error rates from samples of related individuals by gene counting. <i>Bioinformatics</i> , 2006, 22, 771-772.	1.8	9
58	A parallel genetic algorithm to discover patterns in genetic markers that indicate predisposition to multifactorial disease. <i>Computers in Biology and Medicine</i> , 2008, 38, 826-836.	3.9	9
59	Reparameterization of PAM50 Expression Identifies Novel Breast Tumor Dimensions and Leads to Discovery of a Genome-Wide Significant Breast Cancer Locus at <i>12q15</i> . <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018, 27, 644-652.	1.1	9
60	Drawing Pedigrees. <i>Mathematical Medicine and Biology</i> , 1988, 5, 201-213.	0.8	8
61	Gene Hunting with Gradients of Likelihoods. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1991, 53, 3-22.	0.8	8
62	Effectiveness of Contact Precautions to Prevent Transmission of Methicillin-Resistant <i>Staphylococcus aureus</i> and Vancomycin-Resistant Enterococci in Intensive Care Units. <i>Clinical Infectious Diseases</i> , 2021, 72, S42-S49.	2.9	8
63	A Linear Time Algorithm for Calculation of Multiple Pairwise Kinship Coefficients and the Genetic Index of Familiarity. <i>Journal of Biomedical Informatics</i> , 1994, 27, 342-350.	0.7	7
64	Markov chain Monte Carlo methods for family trees using a parallel processor. <i>Statistics and Computing</i> , 1996, 6, 67-75.	0.8	7
65	Enumerating the decomposable neighbors of a decomposable graph under a simple perturbation scheme. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 1232-1238.	0.7	6
66	Identifying rare variants from exome scans: the GAW17 experience. <i>BMC Proceedings</i> , 2011, 5, S1.	1.8	6
67	Effect of linkage disequilibrium on the identification of functional variants. <i>Genetic Epidemiology</i> , 2011, 35, S115-9.	0.6	6
68	Employing MCMC under the PPL framework to analyze sequence data in large pedigrees. <i>Frontiers in Genetics</i> , 2013, 4, 59.	1.1	6
69	Population genealogy resource shows evidence of familial clustering for Alzheimer disease. <i>Neurology: Genetics</i> , 2018, 4, e249.	0.9	6
70	The stochastic nature of errors in next-generation sequencing of circulating cell-free DNA. <i>PLoS ONE</i> , 2020, 15, e0229063.	1.1	6
71	Detection of circulating tumor DNA without a tumor-informed search using next-generation sequencing is a prognostic biomarker in pancreatic ductal adenocarcinoma. <i>Neoplasia</i> , 2021, 23, 859-869.	2.3	6
72	Comprehensive evaluation and efficient classification of BRCA1 RING domain missense substitutions. <i>American Journal of Human Genetics</i> , 2022, 109, 1153-1174.	2.6	6

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73	A chromosome 16 quantitative trait locus regulates allogeneic bone marrow engraftment in nonmyeloablated mice. <i>Blood</i> , 2009, 114, 202-210.	0.6	5
74	Detecting Pleiotropy and Epistasis Using Variance Components Linkage Analysis in jPAP. <i>Human Heredity</i> , 2011, 72, 258-263.	0.4	5
75	Linkage analysis on complex pedigrees by simulation. <i>Mathematical Medicine and Biology</i> , 1994, 11, 79-93.	0.8	4
76	Tests of association for rare variants: case control mutation screening. <i>Nature Reviews Genetics</i> , 2011, 12, 224-224.	7.7	4
77	Pairwise shared genomic segment analysis in high-risk pedigrees: application to Genetic Analysis Workshop 17 exome-sequencing SNP data. <i>BMC Proceedings</i> , 2011, 5, S9.	1.8	4
78	A structural Markov property for decomposable graph laws that allows control of clique intersections. <i>Biometrika</i> , 2018, 105, 19-29.	1.3	4
79	Peri-implantation intercourse does not lower fecundability. <i>Human Reproduction</i> , 2020, 35, 2107-2112.	0.4	4
80	Haplotype association analyses in resources of mixed structure using Monte Carlo testing. <i>BMC Bioinformatics</i> , 2010, 11, 592.	1.2	3
81	The conditional independences between variables derived from two independent identically distributed Markov random fields when pairwise order is ignored. <i>Mathematical Medicine and Biology</i> , 2010, 27, 283-288.	0.8	3
82	Fine mapping of the Bmgr5 quantitative trait locus for allogeneic bone marrow engraftment in mice. <i>Immunogenetics</i> , 2013, 65, 585-596.	1.2	3
83	Pathways analysis of differential gene expression induced by engrafting doses of total body irradiation for allogeneic bone marrow transplantation in mice. <i>Immunogenetics</i> , 2013, 65, 597-607.	1.2	3
84	Variation and trends in transmission dynamics of Methicillin-resistant <i>Staphylococcus aureus</i> in veterans affairs hospitals and nursing homes. <i>Epidemics</i> , 2019, 28, 100347.	1.5	3
85	A note on the four-colourability of pedigrees and its consequences for probability calculations. <i>Statistics and Computing</i> , 1993, 3, 51-54.	0.8	2
86	Alternative graphical representations of genotypes in a pedigree. <i>Mathematical Medicine and Biology</i> , 1994, 11, 217-228.	0.8	2
87	Genetic models for the inheritance of the silver colour mutation of foxes. <i>Genetical Research</i> , 1994, 64, 11-18.	0.3	2
88	Identification of a Major Susceptibility Locus for Lethal Graft-versus-Host Disease in MHC-Matched Mice. <i>Journal of Immunology</i> , 2009, 183, 462-469.	0.4	2
89	Automated construction and testing of multi-locus gene-gene associations. <i>Bioinformatics</i> , 2011, 27, 134-136.	1.8	2
90	Enumeration and simulation of marriage node graphs on zero-loop pedigrees. <i>Mathematical Medicine and Biology</i> , 2003, 20, 261-275.	0.8	1

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91	Estimating the parameters of a model for protein-protein interaction graphs. <i>Mathematical Medicine and Biology</i> , 2006, 23, 279-295.	0.8	1
92	Case-control association testing by graphical modeling for the Genetic Analysis Workshop 17 mini-exome sequence data. <i>BMC Proceedings</i> , 2011, 5, S62.	1.8	1
93	Improved hidden Markov model for nosocomial infections. <i>Mathematical Medicine and Biology</i> , 2014, 31, 338-352.	0.8	1
94	Evidence for excess familial clustering of Post Traumatic Stress Disorder in the US Veterans Genealogy resource. <i>Journal of Psychiatric Research</i> , 2022, 150, 332-337.	1.5	1
95	Simulating realistic zero loop pedigrees using a bipartite Prufer code and graphical modelling. <i>Mathematical Medicine and Biology</i> , 2004, 21, 335-45.	0.8	1
96	Classifying, identifying and enumerating arbitrary relationships. <i>Annals of Human Biology</i> , 1988, 15, 229-235.	0.4	0
97	A class of perfect graphs in genetics. <i>Mathematical Medicine and Biology</i> , 1993, 10, 77-81.	0.8	0
98	Allelic Association in Large Pedigrees. <i>Genetic Epidemiology</i> , 2001, 21, S571-S575.	0.6	0
99	An Application of the Latent p Value Method to Assess Linkage in Asthma Pedigrees. <i>Human Heredity</i> , 2010, 70, 1-8.	0.4	0
100	Pairwise shared genomic segment analysis in three Utah high-risk breast cancer pedigrees. <i>BMC Genomics</i> , 2012, 13, 676.	1.2	0
101	Variation in Transmission and Clearance of Methicillin-Resistant <i>Staphylococcus aureus</i> Among Veteran Nursing Homes. <i>Open Forum Infectious Diseases</i> , 2016, 3, .	0.4	0
102	1839. Contact Precautions™ Effects on MRSA Transmission in Department of Veterans Affairs Hospitals. <i>Open Forum Infectious Diseases</i> , 2019, 6, S46-S46.	0.4	0