

Timothy D O'connor

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

5,500
citations

331670

21
h-index

233421

45
g-index

50
all docs

50
docs citations

50
times ranked

13571
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution and Functional Impact of Rare Coding Variation from Deep Sequencing of Human Exomes. <i>Science</i> , 2012, 337, 64-69.	12.6	1,535
2	Sequencing of 53,831 diverse genomes from the NHLBI TOPMed Program. <i>Nature</i> , 2021, 590, 290-299.	27.8	1,069
3	Analysis of 6,515 exomes reveals the recent origin of most human protein-coding variants. <i>Nature</i> , 2013, 493, 216-220.	27.8	898
4	Great ape genetic diversity and population history. <i>Nature</i> , 2013, 499, 471-475.	27.8	768
5	A continuum of admixture in the Western Hemisphere revealed by the African Diaspora genome. <i>Nature Communications</i> , 2016, 7, 12522.	12.8	136
6	Evolutionary genomic dynamics of Peruvians before, during, and after the Inca Empire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6526-E6535.	7.1	115
7	An integrated genomic and transcriptomic survey of mucormycosis-causing fungi. <i>Nature Communications</i> , 2016, 7, 12218.	12.8	103
8	Association study in African-admixed populations across the Americas recapitulates asthma risk loci in non-African populations. <i>Nature Communications</i> , 2019, 10, 880.	12.8	71
9	De novo mutations across 1,465 diverse genomes reveal mutational insights and reductions in the Amish founder population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2560-2569.	7.1	71
10	Challenges and disparities in the application of personalized genomic medicine to populations with African ancestry. <i>Nature Communications</i> , 2016, 7, 12521.	12.8	68
11	Characterizing the Genetic Architecture of Parkinson's Disease in Latinos. <i>Annals of Neurology</i> , 2021, 90, 353-365.	5.3	48
12	Genomic structure and diversity of <i>Plasmodium falciparum</i> in Southeast Asia reveal recent parasite migration patterns. <i>Nature Communications</i> , 2019, 10, 2665.	12.8	46
13	Patch dieback of <i>Colophospermum mopane</i> in a dysfunctional semi-arid African savanna. <i>Austral Ecology</i> , 2002, 27, 385-395.	1.5	45
14	Population sequencing data reveal a compendium of mutational processes in the human germ line. <i>Science</i> , 2021, 373, 1030-1035.	12.6	43
15	Fine-Scale Patterns of Population Stratification Confound Rare Variant Association Tests. <i>PLoS ONE</i> , 2013, 8, e65834.	2.5	42
16	A positively selected FBN1 missense variant reduces height in Peruvian individuals. <i>Nature</i> , 2020, 582, 234-239.	27.8	39
17	Rare Variation Facilitates Inferences of Fine-Scale Population Structure in Humans. <i>Molecular Biology and Evolution</i> , 2015, 32, 653-660.	8.9	38
18	Evolution of Hominin Polyunsaturated Fatty Acid Metabolism: From Africa to the New World. <i>Genome Biology and Evolution</i> , 2019, 11, 1417-1430.	2.5	38

#	ARTICLE	IF	CITATIONS
19	Genotype-phenotype associations: substitution models to detect evolutionary associations between phenotypic variables and genotypic evolutionary rate. <i>Bioinformatics</i> , 2009, 25, i94-i100.	4.1	35
20	Genetic architecture of quantitative traits and complex diseases. <i>Current Opinion in Genetics and Development</i> , 2013, 23, 678-683.	3.3	30
21	The genetic structure and adaptation of Andean highlanders and Amazonians are influenced by the interplay between geography and culture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32557-32565.	7.1	28
22	Identifying tagging SNPs for African specific genetic variation from the African Diaspora Genome. <i>Scientific Reports</i> , 2017, 7, 46398.	3.3	26
23	Inferring the "Primordial Immune Complex" Origins of MHC Class I and Antigen Receptors Revealed by Comparative Genomics. <i>Journal of Immunology</i> , 2019, 203, 1882-1896.	0.8	24
24	The promise and limitations of population exomics for human evolution studies. <i>Genome Biology</i> , 2011, 12, 127.	9.6	20
25	Ancestral characterization of 1018 cancer cell lines highlights disparities and reveals gene expression and mutational differences. <i>Cancer</i> , 2019, 125, 2076-2088.	4.1	16
26	Photographic evidence of fire-induced shifts from dwarf-shrub- to grass-dominated vegetation in Nama-Karoo. <i>South African Journal of Botany</i> , 2015, 101, 148-152.	2.5	15
27	Evolutionary history of modern Samoans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9458-9465.	7.1	14
28	Genome-Wide Analysis of Copy Number Variation in Latin American Parkinson's Disease Patients. <i>Movement Disorders</i> , 2021, 36, 434-441.	3.9	12
29	Interpreting Clinical Trials With Omega-3 Supplements in the Context of Ancestry and FADS Genetic Variation. <i>Frontiers in Nutrition</i> , 2021, 8, 808054.	3.7	12
30	Impact of Amerind ancestry and FADS genetic variation on omega-3 deficiency and cardiometabolic traits in Hispanic populations. <i>Communications Biology</i> , 2021, 4, 918.	4.4	11
31	Analysis of long branch extraction and long branch shortening. <i>BMC Genomics</i> , 2010, 11, S14.	2.8	10
32	Evolutionary Modeling of Genotype-Phenotype Associations, and Application to primate coding and Non-coding mtDNA Rate Variation. <i>Evolutionary Bioinformatics</i> , 2013, 9, EBO.S11600.	1.2	9
33	Insect outbreaks alter nutrient dynamics in a southern African savanna: patchy defoliation of <i>Colophospermum mopane</i> savanna by <i>Imbrasia belina</i> larvae. <i>Biotropica</i> , 2018, 50, 789-796.	1.6	9
34	Non-human primates avoid the detrimental effects of prenatal androgen exposure in mixed-sex litters: combined demographic, behavioral, and genetic analyses. <i>American Journal of Primatology</i> , 2016, 78, 1304-1315.	1.7	7
35	Improving Cancer Detection and Treatment with Liquid Biopsies and ptDNA. <i>Trends in Cancer</i> , 2018, 4, 643-654.	7.4	6
36	Peptide ancestry informative markers in uterine neoplasms from women of European, African, and Asian ancestry. <i>IScience</i> , 2022, 25, 103665.	4.1	5

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37	Population genetics of <i>PDE4B</i> (phosphodiesterase-4B) in neglected Native Americans: Implications for cancer pharmacogenetics. <i>Clinical and Translational Science</i> , 2022, , .	3.1	4
38	Accurate and equitable medical genomic analysis requires an understanding of demography and its influence on sample size and ratio. <i>Genome Biology</i> , 2017, 18, 42.	8.8	3
39	Tracing the Distribution of European Lactase Persistence Genotypes Along the Americas. <i>Frontiers in Genetics</i> , 2021, 12, 671079.	2.3	3
40	Detecting geospatial patterns of <i>Plasmodium falciparum</i> parasite migration in Cambodia using optimized estimated effective migration surfaces. <i>International Journal of Health Geographics</i> , 2020, 19, 13.	2.5	2
41	The copy number variation and stroke (CaNVAS) risk and outcome study. <i>PLoS ONE</i> , 2021, 16, e0248791.	2.5	2
42	Polygenic risk prediction and SNCA haplotype analysis in a Latino Parkinson's disease cohort. <i>Parkinsonism and Related Disorders</i> , 2022, 102, 7-15.	2.2	2
43	Native American Genomic Diversity through Ancient DNA. <i>Cell</i> , 2018, 175, 1173-1174.	28.9	1
44	STRIDE: a command-line HMM-based identifier and sub-classifier of <i>Plasmodium falciparum</i> RIFIN and STEVOR variant surface antigen families. <i>BMC Bioinformatics</i> , 2022, 23, 15.	2.6	1
45	AdmixKJump: identifying population structure in recently diverged groups. <i>Source Code for Biology and Medicine</i> , 2015, 10, 2.	1.7	0
46	Abstract 750: Whole exome sequencing of uterine serous carcinomas reveals racial differences in known and novel driver mutations. <i>Cancer Research</i> , 2022, 82, 750-750.	0.9	0