

Justin M O'sullivan

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

4,058
citations

136950

32
h-index

144013

57
g-index

136
all docs

136
docs citations

136
times ranked

6246
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene loops juxtapose promoters and terminators in yeast. <i>Nature Genetics</i> , 2004, 36, 1014-1018.	21.4	321
2	The Super-Donor Phenomenon in Fecal Microbiota Transplantation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 2.	3.9	262
3	Promoter proximal splice sites enhance transcription. <i>Genes and Development</i> , 2002, 16, 2792-2799.	5.9	234
4	Factors Affecting Gastrointestinal Microbiome Development in Neonates. <i>Nutrients</i> , 2018, 10, 274.	4.1	176
5	Isw1 Chromatin Remodeling ATPase Coordinates Transcription Elongation and Termination by RNA Polymerase II. <i>Cell</i> , 2003, 115, 425-435.	28.9	160
6	Machine Learning SNP Based Prediction for Precision Medicine. <i>Frontiers in Genetics</i> , 2019, 10, 267.	2.3	142
7	A Role for Chromatin Remodeling in Transcriptional Termination by RNA Polymerase II. <i>Molecular Cell</i> , 2002, 10, 1441-1452.	9.7	137
8	A Review of Feature Selection Methods for Machine Learning-Based Disease Risk Prediction. <i>Frontiers in Bioinformatics</i> , 0, 2, .	2.1	128
9	Genome conformation capture reveals that the <i>Escherichia coli</i> chromosome is organized by replication and transcription. <i>Nucleic Acids Research</i> , 2013, 41, 6058-6071.	14.5	115
10	Global identification of yeast chromosome interactions using Genome conformation capture. <i>Fungal Genetics and Biology</i> , 2009, 46, 879-886.	2.1	109
11	Polyadenylation: A tail of two complexes. <i>Current Biology</i> , 2002, 12, R855-R857.	3.9	96
12	GWAS on longitudinal growth traits reveals different genetic factors influencing infant, child, and adult BMI. <i>Science Advances</i> , 2019, 5, eaaw3095.	10.3	86
13	Physical Interactions and Expression Quantitative Traits Loci Identify Regulatory Connections for Obesity and Type 2 Diabetes Associated SNPs. <i>Frontiers in Genetics</i> , 2017, 8, 150.	2.3	84
14	Adhesion of <i>Candida albicans</i> to oral streptococci is promoted by selective adsorption of salivary proteins to the streptococcal cell surface. <i>Microbiology (United Kingdom)</i> , 2000, 146, 41-48.	1.8	84
15	Effects of Fecal Microbiome Transfer in Adolescents With Obesity. <i>JAMA Network Open</i> , 2020, 3, e2030415.	5.9	76
16	Chromatin interactions and expression quantitative trait loci reveal genetic drivers of multimorbidities. <i>Nature Communications</i> , 2018, 9, 5198.	12.8	64
17	Regulation of Elongating RNA Polymerase II by Forkhead Transcription Factors in Yeast. <i>Science</i> , 2003, 300, 492-495.	12.6	62
18	The New Era of Treatment for Obesity and Metabolic Disorders: Evidence and Expectations for Gut Microbiome Transplantation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 15.	3.9	60

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19	Altered gut microbiome after bariatric surgery and its association with metabolic benefits: A systematic review. <i>Surgery for Obesity and Related Diseases</i> , 2019, 15, 656-665.	1.2	58
20	Oral administration of maternal vaginal microbes at birth to restore gut microbiome development in infants born by caesarean section: A pilot randomised placebo-controlled trial. <i>EBioMedicine</i> , 2021, 69, 103443.	6.1	58
21	<i>Candida albicans</i> : adherence, signaling and virulence. <i>Medical Mycology</i> , 2000, 38, 125-137.	0.7	55
22	Strain engraftment competition and functional augmentation in a multi-donor fecal microbiota transplantation trial for obesity. <i>Microbiome</i> , 2021, 9, 107.	11.1	55
23	Cohesin mutations in myeloid malignancies: underlying mechanisms. <i>Experimental Hematology and Oncology</i> , 2014, 3, 13.	5.0	54
24	Nutritional Intervention Preconception and During Pregnancy to Maintain Healthy Glucose Metabolism and Offspring Health (â€œNiPPeRâ€œ): study protocol for a randomised controlled trial. <i>Trials</i> , 2017, 18, 131.	1.6	53
25	The missing story behind Genome Wide Association Studies: single nucleotide polymorphisms in gene deserts have a story to tell. <i>Frontiers in Genetics</i> , 2014, 5, 39.	2.3	51
26	The genetic architecture of type 1 diabetes mellitus. <i>Molecular and Cellular Endocrinology</i> , 2018, 477, 70-80.	3.2	51
27	The statistical-mechanics of chromosome conformation capture. <i>Nucleus</i> , 2013, 4, 390-398.	2.2	47
28	Cohesin facilitates zygotic genome activation in zebrafish. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	47
29	Linkages between changes in the 3D organization of the genome and transcription during myotube differentiation in vitro. <i>Skeletal Muscle</i> , 2017, 7, 5.	4.2	45
30	Biochar in Co-Contaminated Soil Manipulates Arsenic Solubility and Microbiological Community Structure, and Promotes Organochlorine Degradation. <i>PLoS ONE</i> , 2015, 10, e0125393.	2.5	45
31	Genomic dissection of 43 serum urate-associated loci provides multiple insights into molecular mechanisms of urate control. <i>Human Molecular Genetics</i> , 2020, 29, 923-943.	2.9	40
32	Identification of salivary basic proline-rich proteins as receptors for <i>Candida albicans</i> adhesion. <i>Microbiology (United Kingdom)</i> , 1997, 143, 341-348.	1.8	40
33	Type 1 Diabetes Mellitus-Associated Genetic Variants Contribute to Overlapping Immune Regulatory Networks. <i>Frontiers in Genetics</i> , 2018, 9, 535.	2.3	39
34	Migration through a small pore disrupts inactive chromatin organization in neutrophil-like cells. <i>BMC Biology</i> , 2018, 16, 142.	3.8	37
35	Intergenic GWAS SNPs are key components of the spatial and regulatory network for human growth. <i>Human Molecular Genetics</i> , 2016, 25, 3372-3382.	2.9	36
36	Randomised Double-Blind Placebo-Controlled Trial of Inulin with Metronidazole in Non-Alcoholic Fatty Liver Disease (NAFLD). <i>Nutrients</i> , 2020, 12, 937.	4.1	35

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37	Repeated elements coordinate the spatial organization of the yeast genome. <i>Yeast</i> , 2009, 26, 125-138.	1.7	33
38	Changes in long-range rDNA-genomic interactions associate with altered RNA polymerase II gene programs during malignant transformation. <i>Communications Biology</i> , 2019, 2, 39.	4.4	33
39	Common Variants Coregulate Expression of <i>CBA</i> and Modifier Genes to Delay Parkinson's Disease Onset. <i>Movement Disorders</i> , 2020, 35, 1346-1356.	3.9	30
40	Identification of human skeletal muscle miRNA related to strength by high-throughput sequencing. <i>Physiological Genomics</i> , 2018, 50, 416-424.	2.3	27
41	Chromosome conformation maps in fission yeast reveal cell cycle dependent sub nuclear structure. <i>Nucleic Acids Research</i> , 2014, 42, 12585-12599.	14.5	26
42	A non-coding genetic variant maximally associated with serum urate levels is functionally linked to HNF4A-dependent PDZK1 expression. <i>Human Molecular Genetics</i> , 2018, 27, 3964-3973.	2.9	26
43	Gut Microbial Predictors of Type 2 Diabetes Remission Following Bariatric Surgery. <i>Obesity Surgery</i> , 2020, 30, 3536-3548.	2.1	25
44	The nucleolus: a raft adrift in the nuclear sea or the keystone in nuclear structure?. <i>Biomolecular Concepts</i> , 2013, 4, 277-286.	2.2	24
45	GWAS on prolonged gestation (post-term birth): analysis of successive Finnish birth cohorts. <i>Journal of Medical Genetics</i> , 2018, 55, 55-63.	3.2	23
46	Mitochondrial-Nuclear DNA Interactions Contribute to the Regulation of Nuclear Transcript Levels as Part of the Inter-Organellar Communication System. <i>PLoS ONE</i> , 2012, 7, e30943.	2.5	21
47	Connecting SNPs in Diabetes: A Spatial Analysis of Meta-GWAS Loci. <i>Frontiers in Endocrinology</i> , 2015, 6, 102.	3.5	18
48	Cohesin modulates transcription of estrogen-responsive genes. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 257-269.	1.9	18
49	Functional Urate-Associated Genetic Variants Influence Expression of lincRNAs LINC01229 and MAFTRR. <i>Frontiers in Genetics</i> , 2018, 9, 733.	2.3	18
50	Plasma Trimethylamine N-Oxide and Its Precursors: Population Epidemiology, Parent-Child Concordance, and Associations with Reported Dietary Intake in 11- to 12-Year-Old Children and Their Parents. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa103.	0.3	18
51	Transcriptional profiling of the zebrafish proximal tubule. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F478-F488.	2.7	17
52	Interactions between mitochondrial and nuclear DNA in mammalian cells are non-random. <i>Mitochondrion</i> , 2016, 30, 187-196.	3.4	16
53	Protocol for the Gut Bugs Trial: a randomised double-blind placebo-controlled trial of gut microbiome transfer for the treatment of obesity in adolescents. <i>BMJ Open</i> , 2019, 9, e026174.	1.9	16
54	A diffusion model for the coordination of DNA replication in <i>Schizosaccharomyces pombe</i> . <i>Scientific Reports</i> , 2016, 6, 18757.	3.3	15

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55	Hi-C detects novel structural variants in HL-60 and HL-60/S4 cell lines. <i>Genomics</i> , 2020, 112, 151-162.	2.9	15
56	Robotic automation of a UHPLC/MS-MS method profiling one-carbon metabolites, amino acids, and precursors in plasma. <i>Analytical Biochemistry</i> , 2020, 592, 113558.	2.4	15
57	Understanding the impact of SNPs associated with autism spectrum disorder on biological pathways in the human fetal and adult cortex. <i>Scientific Reports</i> , 2021, 11, 15867.	3.3	15
58	Trimethylamine N-oxide (TMAO) Is not Associated with Cardiometabolic Phenotypes and Inflammatory Markers in Children and Adults. <i>Current Developments in Nutrition</i> , 2021, 5, nzaa179.	0.3	15
59	Perspective: Advancing Understanding of Population Nutrient-Health Relations via Metabolomics and Precision Phenotypes. <i>Advances in Nutrition</i> , 2019, 10, 944-952.	6.4	14
60	Unravelling the Shared Genetic Mechanisms Underlying 18 Autoimmune Diseases Using a Systems Approach. <i>Frontiers in Immunology</i> , 2021, 12, 693142.	4.8	14
61	Assigning function to SNPs: Considerations when interpreting genetic variation. <i>Seminars in Cell and Developmental Biology</i> , 2022, 121, 135-142.	5.0	13
62	Maternal bacteria to correct abnormal gut microbiota in babies born by C-section. <i>Medicine (United Kingdom)</i> , 2021, 100, e021012.	1.0	12
63	Genes and post-term birth: late for delivery. <i>BMC Research Notes</i> , 2014, 7, 720.	1.4	11
64	The Impact of Nutritional Interventions in Pregnant Women on DNA Methylation Patterns of the Offspring: A Systematic Review. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1800034.	3.3	11
65	tRNA Gene Identity Affects Nuclear Positioning. <i>PLoS ONE</i> , 2011, 6, e29267.	2.5	11
66	A period of 10 weeks of increased protein consumption does not alter faecal microbiota or volatile metabolites in healthy older men: a randomised controlled trial. <i>Journal of Nutritional Science</i> , 2020, 9, e25.	1.9	10
67	High prevalence of undiagnosed comorbidities among adolescents with obesity. <i>Scientific Reports</i> , 2020, 10, 20101.	3.3	10
68	Establishing gene regulatory networks from Parkinson's disease risk loci. <i>Brain</i> , 2022, 145, 2422-2435.	7.6	10
69	Long-term stability in the gut microbiome over 46 years in the life of Billy Apple. <i>Human Microbiome Journal</i> , 2017, 5-6, 7-10.	3.8	9
70	A DNA Contact Map for the Mouse Runx1 Gene Identifies Novel Haematopoietic Enhancers. <i>Scientific Reports</i> , 2017, 7, 13347.	3.3	9
71	Differences in Compositions of Gut Bacterial Populations and Bacteriophages in 11 Year-Olds Born Preterm Compared to Full Term. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 276.	3.9	9
72	Codon reassignment and the evolving genetic code: problems and pitfalls in post-genome analysis. <i>Trends in Genetics</i> , 2001, 17, 20-22.	6.7	8

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73	The microbial biogeography of the gastrointestinal tract of preterm and term lambs. <i>Scientific Reports</i> , 2020, 10, 9113.	3.3	8
74	Population epidemiology and concordance for plasma amino acids and precursors in 11-12-year-old children and their parents. <i>Scientific Reports</i> , 2021, 11, 3619.	3.3	8
75	The <i>Candida albicans</i> gene encoding the cytoplasmic leucyl-tRNA synthetase: implications for the evolution of CUG codon reassignment. <i>Gene</i> , 2001, 275, 133-140.	2.2	7
76	Seryl-tRNA synthetase is not responsible for the evolution of CUG codon reassignment in <i>Candida albicans</i> . <i>Yeast</i> , 2001, 18, 313-322.	1.7	7
77	A Sequence-Specific Interaction between the <i>Saccharomyces cerevisiae</i> rRNA Gene Repeats and a Locus Encoding an RNA Polymerase I Subunit Affects Ribosomal DNA Stability. <i>Molecular and Cellular Biology</i> , 2015, 35, 544-554.	2.3	7
78	GWAS SNPs Impact Shared Regulatory Pathways Amongst Multimorbid Psychiatric Disorders and Cognitive Functioning. <i>Frontiers in Psychiatry</i> , 2020, 11, 560751.	2.6	7
79	Transcription shifts in gut bacteria shared between mothers and their infants. <i>Scientific Reports</i> , 2022, 12, 1276.	3.3	7
80	Redefining the hypotheses driving Parkinson's diseases research. <i>Npj Parkinson's Disease</i> , 2022, 8, 45.	5.3	7
81	Can adult polygenic scores improve prediction of body mass index in childhood?. <i>International Journal of Obesity</i> , 2022, 46, 1375-1383.	3.4	7
82	Different exercise modalities have distinct effects on the integrin-linked kinase (ILK) and Ca ²⁺ -signaling pathways in the male rat bone. <i>Physiological Reports</i> , 2015, 3, e12568.	1.7	6
83	Gut microbiome transfer: Finding the perfect fit. <i>Clinical Endocrinology</i> , 2020, 93, 3-10.	2.4	6
84	Reconstructing the blood metabolome and genotype using long-range chromatin interactions. <i>Metabolism Open</i> , 2020, 6, 100035.	2.9	6
85	Untangling the genetic link between type 1 and type 2 diabetes using functional genomics. <i>Scientific Reports</i> , 2021, 11, 13871.	3.3	6
86	Yeast chromosomal interactions and nuclear architecture. <i>Current Opinion in Cell Biology</i> , 2010, 22, 298-304.	5.4	5
87	Different Short-Term Mild Exercise Modalities Lead to Differential Effects on Body Composition in Healthy Prepubertal Male Rats. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	5
88	A Memory of Early Life Physical Activity Is Retained in Bone Marrow of Male Rats Fed a High-Fat Diet. <i>Frontiers in Physiology</i> , 2017, 8, 476.	2.8	5
89	Shared Regulatory Pathways Reveal Novel Genetic Correlations Between Grip Strength and Neuromuscular Disorders. <i>Frontiers in Genetics</i> , 2020, 11, 393.	2.3	5
90	Plasma B Vitamins: Population Epidemiology and Parent-Child Concordance in Children and Adults. <i>Nutrients</i> , 2021, 13, 821.	4.1	5

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91	Insights from Space: Potential Role of Diet in the Spatial Organization of Chromosomes. <i>Nutrients</i> , 2014, 6, 5724-5739.	4.1	4
92	Potential roles for interactions between the mitochondrial and nuclear DNA throughout the cell cycle of <i>Schizosaccharomyces pombe</i> . <i>Mitochondrion</i> , 2014, 17, 141-149.	3.4	4
93	Transcriptional Regulation of RUNX1: An Informatics Analysis. <i>Genes</i> , 2021, 12, 1175.	2.4	4
94	Machine Learning Identifies Six Genetic Variants and Alterations in the Heart Atrial Appendage as Key Contributors to PD Risk Predictivity. <i>Frontiers in Genetics</i> , 2021, 12, 785436.	2.3	4
95	TNF- α Differentially Regulates Cell Cycle Genes in Promyelocytic and Granulocytic HL-60/S4 Cells. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2775-2786.	1.8	3
96	Desacetyl- α -MSH and α -MSH have sex specific interactions with diet to influence mouse gut morphology, metabolites and microbiota. <i>Scientific Reports</i> , 2020, 10, 18957.	3.3	3
97	Low tolerance for transcriptional variation at cohesin genes is accompanied by functional links to disease-relevant pathways. <i>Journal of Medical Genetics</i> , 2021, 58, 534-542.	3.2	3
98	Lower insulin sensitivity remains a feature of children born very preterm. <i>Pediatric Diabetes</i> , 2021, 22, 161-167.	2.9	3
99	A de novo <i>ACTB</i> gene pathogenic variant in identical twins with phenotypic variation for hydrops and jejunal atresia. <i>American Journal of Medical Genetics, Part A</i> , 2022, 188, 1299-1306.	1.2	3
100	A potential role for genome structure in the translation of mechanical force during immune cell development. <i>Nucleus</i> , 2016, 7, 462-475.	2.2	2
101	Identifying the lungs as a susceptible site for allele-specific regulatory changes associated with type 1 diabetes risk. <i>Communications Biology</i> , 2021, 4, 1072.	4.4	2
102	Nucleolar structure: τ s all in a tangle. <i>Cell Cycle</i> , 2010, 9, 4609-4609.	2.6	1
103	Genetic variants associated with alcohol dependence co-ordinate regulation of ADH genes in gastrointestinal and adipose tissues. <i>Scientific Reports</i> , 2020, 10, 9897.	3.3	1
104	Intronic Haplotypes in <i>GBA</i> Modify Age at Diagnosis of Parkinson's: Replication in a Subgroup. <i>Movement Disorders</i> , 2021, 36, 1468-1470.	3.9	1
105	Chromosome organization in simple and complex unicellular organisms. <i>Current Issues in Molecular Biology</i> , 2011, 13, 37-42.	2.4	1
106	Lab Ref: a recipe for every occasion. <i>Journal of Cell Science</i> , 2003, 116, 762-762.	2.0	0
107	Data for chromosome contacts and matched transcription profiles at three cell cycle phases in the fission yeast. <i>Genomics Data</i> , 2015, 4, 12-16.	1.3	0
108	Genome organization: connecting the developmental origins of disease and genetic variation. <i>Journal of Developmental Origins of Health and Disease</i> , 2018, 9, 260-265.	1.4	0

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109	3D genome organization, genetic variation and disease. Seminars in Cell and Developmental Biology, 2022, 121, 133-134.	5.0	0