Matthew I Bellgard

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5412666/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A chromosome-based draft sequence of the hexaploid bread wheat (<i>Triticum aestivum</i>) genome. Science, 2014, 345, 1251788.	6.0	1,479
2	A chromosome conformation capture ordered sequence of the barley genome. Nature, 2017, 544, 427-433.	13.7	1,365
3	Ancient hybridizations among the ancestral genomes of bread wheat. Science, 2014, 345, 1250092.	6.0	629
4	The TREAT-NMD DMD Global Database: Analysis of More than 7,000 Duchenne Muscular Dystrophy Mutations. Human Mutation, 2015, 36, 395-402.	1.1	507
5	Integrative Annotation of 21,037 Human Genes Validated by Full-Length cDNA Clones. PLoS Biology, 2004, 2, e162.	2.6	290
6	Deep Sequencing of Plant and Animal DNA Contained within Traditional Chinese Medicines Reveals Legality Issues and Health Safety Concerns. PLoS Genetics, 2012, 8, e1002657.	1.5	245
7	Genes controlling seed dormancy and pre-harvest sprouting in a rice-wheat-barley comparison. Functional and Integrative Genomics, 2004, 4, 84-93.	1.4	157
8	Ten years of bacterial genome sequencing: comparative-genomics-based discoveries. Functional and Integrative Genomics, 2006, 6, 165-185.	1.4	156
9	Construction of a map-based reference genome sequence for barley, Hordeum vulgare L Scientific Data, 2017, 4, 170044.	2.4	130
10	Genome sequencing and analysis of the paclitaxel-producing endophytic fungus Penicillium aurantiogriseum NRRL 62431. BMC Genomics, 2014, 15, 69.	1.2	125
11	Clinical Outcomes in Duchenne Muscular Dystrophy: A Study of 5345 Patients from the TREAT-NMD DMD Clobal Database. Journal of Neuromuscular Diseases, 2017, 4, 293-306.	1.1	125
12	DNA-Based Faecal Dietary Analysis: A Comparison of qPCR and High Throughput Sequencing Approaches. PLoS ONE, 2011, 6, e25776.	1.1	124
13	The first gene-based map of Lupinus angustifolius Llocation of domestication genes and conserved synteny with Medicago truncatula. Theoretical and Applied Genetics, 2006, 113, 225-238.	1.8	116
14	Genome Sequence of the Pathogenic Intestinal Spirochete Brachyspira hyodysenteriae Reveals Adaptations to Its Lifestyle in the Porcine Large Intestine. PLoS ONE, 2009, 4, e4641.	1.1	107
15	Combined DNA, toxicological and heavy metal analyses provides an auditing toolkit to improve pharmacovigilance of traditional Chinese medicine (TCM). Scientific Reports, 2015, 5, 17475.	1.6	99
16	Yabi: An online research environment for grid, high performance and cloud computing. Source Code for Biology and Medicine, 2012, 7, 1.	1.7	98
17	The Genetics of Symbiotic Nitrogen Fixation: Comparative Genomics of 14 Rhizobia Strains by Resolution of Protein Clusters. Genes, 2012, 3, 138-166.	1.0	94
18	De novo assembly of Euphorbia fischeriana root transcriptome identifies prostratin pathway related genes. BMC Genomics, 2011, 12, 600.	1.2	75

#	Article	IF	CITATIONS
19	Aligning a New Reference Genetic Map of Lupinus angustifolius with the Genome Sequence of the Model Legume, Lotus japonicus. DNA Research, 2010, 17, 73-83.	1.5	73
20	The Evolution of MHC Diversity by Segmental Duplication and Transposition of Retroelements. Journal of Molecular Evolution, 1997, 45, 599-609.	0.8	72
21	Scrapheap Challenge: A novel bulk-bone metabarcoding method to investigate ancient DNA in faunal assemblages. Scientific Reports, 2013, 3, 3371.	1.6	72
22	Germin-like proteins (GLPs) in cereal genomes: gene clustering and dynamic roles in plant defence. Functional and Integrative Genomics, 2010, 10, 463-476.	1.4	70
23	Profiling β-thalassaemia mutations in India at state and regional levels: implications for genetic education, screening and counselling programmes. The HUGO Journal, 2009, 3, 51-62.	4.1	68
24	Gene expression profiling of Japanese psoriatic skin reveals an increased activity in molecular stress and immune response signals. Journal of Molecular Medicine, 2005, 83, 964-975.	1.7	62
25	Evidence of a tick RNAi pathway by comparative genomics and reverse genetics screen of targets with known loss-of-function phenotypes in Drosophila. BMC Molecular Biology, 2009, 10, 26.	3.0	61
26	The H-Invitational Database (H-InvDB), a comprehensive annotation resource for human genes and transcripts. Nucleic Acids Research, 2007, 36, D793-D799.	6.5	57
27	Multilocus sequence typing as a tool for studying the molecular epidemiology and population structure of Brachyspira hyodysenteriae. Veterinary Microbiology, 2009, 138, 330-338.	0.8	57
28	CattleTickBase: An integrated Internet-based bioinformatics resource for Rhipicephalus (Boophilus) microplus. International Journal for Parasitology, 2012, 42, 161-169.	1.3	55
29	The Complete Genome Sequence of the Pathogenic Intestinal Spirochete Brachyspira pilosicoli and Comparison with Other Brachyspira Genomes. PLoS ONE, 2010, 5, e11455.	1.1	54
30	An internet-based bioinformatics toolkit for plant biosecurity diagnosis and surveillance of viruses and viroids. BMC Bioinformatics, 2017, 18, 26.	1.2	52
31	Genomic analysis of Campylobacter fetus subspecies: identification of candidate virulence determinants and diagnostic assay targets. BMC Microbiology, 2009, 9, 86.	1.3	51
32	Editorial: Precision Public Health. Frontiers in Public Health, 2018, 6, 121.	1.3	50
33	Genomic and Phylogenetic Analysis of the S100A7 (Psoriasin) Gene Duplications Within the Region of the S100 Gene Cluster on Human Chromosome 1q21. Journal of Molecular Evolution, 2003, 56, 397-406.	0.8	49
34	Dispelling myths about rare disease registry system development. Source Code for Biology and Medicine, 2013, 8, 21.	1.7	49
35	Comparative microarray analysis of Rhipicephalus (Boophilus) microplus expression profiles of larvae pre-attachment and feeding adult female stages on Bos indicus and Bos taurus cattle. BMC Genomics, 2010, 11, 437.	1.2	48
36	Gene-enriched draft genome of the cattle tick Rhipicephalus microplus: assembly by the hybrid Pacific Biosciences/Illumina approach enabled analysis of the highly repetitive genome. International Journal for Parasitology, 2017, 47, 569-583.	1.3	48

#	Article	IF	CITATIONS
37	Bread matters: a national initiative to profile the genetic diversity of Australian wheat. Plant Biotechnology Journal, 2012, 10, 703-708.	4.1	45
38	Early Detection of G + C Differences in Bacterial Species Inferred from the Comparative Analysis of the Two Completely Sequenced Helicobacter pylori Strains. Journal of Molecular Evolution, 2001, 53, 465-468.	0.8	41
39	Identification of genes associated with prophage-like gene transfer agents in the pathogenic intestinal spirochaetes Brachyspira hyodysenteriae, Brachyspira pilosicoli and Brachyspira intermedia. Veterinary Microbiology, 2009, 134, 340-345.	0.8	41
40	High-throughput sequencing of ancient plant and mammal DNA preserved in herbivore middens. Quaternary Science Reviews, 2012, 58, 135-145.	1.4	40
41	Comparative genomics of Brachyspira pilosicoli strains: genome rearrangements, reductions and correlation of genetic compliment with phenotypic diversity. BMC Genomics, 2012, 13, 454.	1.2	38
42	Genome Sequences of Six Wheat-Infecting <i>Fusarium</i> Species Isolates. Genome Announcements, 2013, 1, .	0.8	38
43	The mitochondrial genome of a Texas outbreak strain of the cattle tick, Rhipicephalus (Boophilus) microplus, derived from whole genome sequencing Pacific Biosciences and Illumina reads. Gene, 2015, 571, 135-141.	1.0	37
44	BAC-derived markers for assaying the stem rust resistance gene, Sr2, in wheat breeding programs. Molecular Breeding, 2008, 22, 15-24.	1.0	36
45	Suppressive subtractive hybridization analysis of Rhipicephalus (Boophilus) microplus larval and adult transcript expression during attachment and feeding. Veterinary Parasitology, 2010, 167, 304-320.	0.7	36
46	Analysis of Multiple Brachyspira hyodysenteriae Genomes Confirms That the Species Is Relatively Conserved but Has Potentially Important Strain Variation. PLoS ONE, 2015, 10, e0131050.	1.1	36
47	A descriptive profile of \hat{l}^2 -thalassaemia mutations in India, Pakistan and Sri Lanka. Journal of Community Genetics, 2010, 1, 149-157.	0.5	35
48	Diverse approaches to achieving grain yield in wheat. Functional and Integrative Genomics, 2011, 11, 37-48.	1.4	35
49	Gene expression evidence for off-target effects caused by RNA interference-mediated gene silencing of Ubiquitin-63E in the cattle tick Rhipicephalus microplus. International Journal for Parasitology, 2011, 41, 1001-1014.	1.3	33
50	Evolutionary conserved microRNAs are ubiquitously expressed compared to tick-specific miRNAs in the cattle tick Rhipicephalus (Boophilus) microplus. BMC Genomics, 2011, 12, 328.	1.2	33
51	Rare disease registries: a call to action. Internal Medicine Journal, 2017, 47, 1075-1079.	0.5	33
52	Transcriptome and toxin family analysis of the paralysis tick, Ixodes holocyclus. International Journal for Parasitology, 2018, 48, 71-82.	1.3	33
53	A reverse vaccinology approach to swine dysentery vaccine development. Veterinary Microbiology, 2009, 137, 111-119.	0.8	32
54	Reassociation kinetics-based approach for partial genome sequencing of the cattle tick, Rhipicephalus (Boophilus) microplus. BMC Genomics, 2010, 11, 374.	1.2	31

#	Article	IF	CITATIONS
55	A modular approach to disease registry design: Successful adoption of an internet-based rare disease registry. Human Mutation, 2012, 33, E2356-E2366.	1.1	31
56	Comparative organization of wheat homoeologous group 3S and 7L using wheat-rice synteny and identification of potential markers for genes controlling xanthophyll content in wheat. Functional and Integrative Genomics, 2004, 4, 118-130.	1.4	30
57	Phenotyping: Targeting genotype's rich cousin for diagnosis. Journal of Paediatrics and Child Health, 2015, 51, 381-386.	0.4	29
58	Design of the Familial Hypercholesterolaemia Australasia Network Registry: Creating Opportunities for Greater International Collaboration. Journal of Atherosclerosis and Thrombosis, 2017, 24, 1075-1084.	0.9	29
59	The transcript repeat element: the human Alu sequence as a component of gene networks influencing cancer. Functional and Integrative Genomics, 2010, 10, 307-319.	1.4	28
60	Role of international registries in enhancing the care of familial hypercholesterolaemia. International Journal of Evidence-Based Healthcare, 2013, 11, 134-139.	0.1	28
61	How to Identify Pathogenic Mutations among All Those Variations: Variant Annotation and Filtration in the Genome Sequencing Era. Human Mutation, 2016, 37, 1272-1282.	1.1	28
62	Metabarcoding avian diets at airports: implications for birdstrike hazard management planning. Investigative Genetics, 2013, 4, 27.	3.3	25
63	Second generation registry framework. Source Code for Biology and Medicine, 2014, 9, 14.	1.7	25
64	Rhipicephalus microplus lipocalins (LRMs): Genomic identification and analysis of the bovine immune response using in silico predicted B and T cell epitopes. International Journal for Parasitology, 2013, 43, 739-752.	1.3	24
65	Pseudoexon activation increases phenotype severity in a Becker muscular dystrophy patient. Molecular Genetics & Genomic Medicine, 2015, 3, 320-326.	0.6	23
66	De novo assembly of honey bee RNA viral genomes by tapping into the innate insect antiviral response pathway. Journal of Invertebrate Pathology, 2018, 152, 38-47.	1.5	23
67	Plant Proteogenomics: Improvements to the Grapevine Genome Annotation. Proteomics, 2017, 17, 1700197.	1.3	22
68	RD-RAP: beyond rare disease patient registries, devising a comprehensive data and analytic framework. Orphanet Journal of Rare Diseases, 2019, 14, 176.	1.2	22
69	Polymorphic Alu Insertions and their Associations with MHC Class I Alleles and Haplotypes in the Northeastern Thais. Annals of Human Genetics, 2005, 69, 364-372.	0.3	21
70	Highâ€ŧhroughput parallel proteogenomics: A bacterial case study. Proteomics, 2014, 14, 2780-2789.	1.3	21
71	Evidence that the 36 kb plasmid of Brachyspira hyodysenteriae contributes to virulence. Veterinary Microbiology, 2011, 153, 150-155.	0.8	20
72	The New Zealand Neuromuscular Disease Registry. Journal of Clinical Neuroscience, 2012, 19, 1749-1750.	0.8	20

#	Article	IF	CITATIONS
73	Prediction of G protein-coupled receptor encoding sequences from the synganglion transcriptome of the cattle tick, Rhipicephalus microplus. Ticks and Tick-borne Diseases, 2016, 7, 670-677.	1.1	20
74	The role of patient registries for rare genetic lipid disorders. Current Opinion in Lipidology, 2018, 29, 156-162.	1.2	20
75	Translational development of splice-modifying antisense oligomers. Expert Opinion on Biological Therapy, 2017, 17, 15-30.	1.4	19
76	Dynamic Evolution of Genomes and the Concept of Genome Space. Annals of the New York Academy of Sciences, 1999, 870, 293-300.	1.8	18
77	Genome-level identification of cell wall invertase genes in wheat for the study of drought tolerance. Functional Plant Biology, 2012, 39, 569.	1.1	18
78	Wheat beta-expansin (EXPB11) genes: Identification of the expressed gene on chromosome 3BS carrying a pollen allergen domain. BMC Plant Biology, 2010, 10, 99.	1.6	17
79	Shoot transcriptome of the giant reed, Arundo donax. Data in Brief, 2015, 3, 1-6.	0.5	17
80	Design of a framework for the deployment of collaborative independent rare disease-centric registries: Gaucher disease registry model. Blood Cells, Molecules, and Diseases, 2018, 68, 232-238.	0.6	17
81	Significant differences between the G+C content of synonymous codons in orthologous genes and the genomic G+C content. Gene, 1999, 238, 33-37.	1.0	16
82	A highly conserved gene island of three genes on chromosome 3B of hexaploid wheat: diverse gene function and genomic structure maintained in a tightly linked block. BMC Plant Biology, 2010, 10, 98.	1.6	16
83	A Web-Based Registry for Familial Hypercholesterolaemia. Heart Lung and Circulation, 2017, 26, 635-639.	0.2	16
84	MASTR-MS: a web-based collaborative laboratory information management system (LIMS) for metabolomics. Metabolomics, 2017, 13, 14.	1.4	16
85	Differentially expressed genes in response to amitraz treatment suggests a proposed model of resistance to amitraz in R. decoloratus ticks. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 361-371.	1.4	16
86	Intragenic Variation of Synonymous Substitution Rates Is Caused by Nonrandom Mutations at Methylated CpG. Journal of Molecular Evolution, 2001, 53, 456-464.	0.8	15
87	A web-based, patient driven registry for Angelman syndrome: the global Angelman syndrome registry. Orphanet Journal of Rare Diseases, 2017, 12, 134.	1.2	15
88	Research protocol: The initiation, design and establishment of the Global Angelman Syndrome Registry. Journal of Intellectual Disability Research, 2018, 62, 431-443.	1.2	15
89	Plant Proteogenomics: From Protein Extraction to Improved Gene Predictions. Methods in Molecular Biology, 2013, 1002, 267-294.	0.4	14
90	Objective Monitoring of mTOR Inhibitor Therapy by Three-Dimensional Facial Analysis. Twin Research and Human Genetics, 2013, 16, 840-844.	0.3	14

#	Article	IF	CITATIONS
91	Harmonizing Music the Boltzmann Way. Connection Science, 1994, 6, 281-297.	1.8	13
92	BarleyVarDB: a database of barley genomic variation. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	1.4	13
93	Statistical evaluation and comparison of a pairwise alignment algorithm that a priori assigns the number of gaps rather than employing gap penalties. Bioinformatics, 2005, 21, 1421-1428.	1.8	12
94	Wheat genome structure and function: genome sequence data and the International Wheat Genome Sequencing Consortium. Australian Journal of Agricultural Research, 2007, 58, 470.	1.5	12
95	Advances in biotechnology and informatics to link variation in the genome to phenotypes in plants and animals. Functional and Integrative Genomics, 2013, 13, 1-9.	1.4	12
96	<i>ThalInd</i> , a βâ€thalassemia and hemoglobinopathies database for India: defining a model countryâ€specific and diseaseâ€centric bioinformatics resource. Human Mutation, 2011, 32, 887-893.	1.1	11
97	Acetylcholinesterase 1 in populations of organophosphate-resistant North American strains of the cattle tick, Rhipicephalus microplus (Acari: Ixodidae). Parasitology Research, 2015, 114, 3027-3040.	0.6	11
98	A Registry Framework Enabling Patient-Centred Care. Studies in Health Technology and Informatics, 2015, 214, 8-14.	0.2	11
99	MHC Haplotype Analysis by Artificial Neural Networks. Human Immunology, 1998, 59, 56-62.	1.2	10
100	Identification of a ribonuclease H gene in bothMycoplasma genitaliumandMycoplasma pneumoniaeby a new method for exhaustive identification of ORFs in the complete genome sequences. FEBS Letters, 1999, 445, 6-8.	1.3	10
101	Differential gene expression analysis in early and late erythroid progenitor cells in βâ€ŧhalassaemia. British Journal of Haematology, 2015, 170, 257-267.	1.2	10
102	Rare Disease Research Roadmap: Navigating the bioinformatics and translational challenges for improved patient health outcomes. Health Policy and Technology, 2014, 3, 325-335.	1.3	9
103	Characterization of genome-wide variations induced by gamma-ray radiation in barley using RNA-Seq. BMC Genomics, 2019, 20, 783.	1.2	9
104	ERDMAS: An exemplar-driven institutional research data management and analysis strategy. International Journal of Information Management, 2020, 50, 337-340.	10.5	9
105	Inferring the direction of evolutionary changes of genomic base composition. Trends in Genetics, 1999, 15, 254-256.	2.9	8
106	Structure and Polymorphism of two Stress-Activated Protein Kinase Genes Centromeric of the MHC: SAPK2a and SAPK4. DNA Sequence, 1999, 10, 229-243.	0.7	7
107	A promoter with bidirectional activity is located between TLX1/HOX11 and a divergently transcribed novel human gene. Gene, 2007, 391, 223-232.	1.0	7
108	Trial Refresh: A Case for an Adaptive Platform Trial for Pulmonary Exacerbations of Cystic Fibrosis. Frontiers in Pharmacology, 2019, 10, 301.	1.6	7

#	Article	IF	CITATIONS
109	The complexity of Rhipicephalus (Boophilus) microplus genome characterised through detailed analysis of two BAC clones. BMC Research Notes, 2011, 4, 254.	0.6	6
110	A Bioinformatics Framework for plant pathologists to deliver global food security outcomes. Australasian Plant Pathology, 2012, 41, 113-124.	0.5	6
111	Immunomic Investigation of Holocyclotoxins to Produce the First Protective Anti-Venom Vaccine Against the Australian Paralysis Tick, Ixodes holocyclus. Frontiers in Immunology, 2021, 12, 744795.	2.2	6
112	The Evolution of MHC Diversity by Segmental Duplication and Transposition of Retroelements. Journal of Molecular Evolution, 1998, 46, 734-734.	0.8	5
113	MASV–Multiple (BLAST) Annotation System Viewer. Bioinformatics, 2003, 19, 2313-2315.	1.8	5
114	Microarray analysis using bioinformatics analysis audit trails (BAATs). Comptes Rendus - Biologies, 2003, 326, 1083-1087.	0.1	4
115	MiNDAUS partnership: a roadmap for the cure and management of motor Neurone disease. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2022, 23, 321-328.	1.1	4
116	A Bioinformatics Reference Model: Towards a Framework for Developing and Organising Bioinformatic Resources. AIP Conference Proceedings, 2007, , .	0.3	3
117	Genome studies at the PAG 2011 conference. Functional and Integrative Genomics, 2011, 11, 1-11.	1.4	3
118	Classification of fish samples via an integrated proteomics and bioinformatics approach. Proteomics, 2013, 13, 3124-3130.	1.3	3
119	Design, development and deployment of a web-based patient registry for rare genetic lipid disorders. Pathology, 2020, 52, 447-452.	0.3	3
120	Comprehending the Health Informatics Spectrum: Grappling with System Entropy and Advancing Quality Clinical Research. Frontiers in Public Health, 2017, 5, 224.	1.3	2
121	Looking through genomics: concepts and technologies for plant and animal genomics. Functional and Integrative Genomics, 2004, 4, 71-73.	1.4	1
122	Wheat Grain Proteomics for the Food Industry. , 2013, , 341-377.		1
123	Draft Genome Sequences of Campylobacter fetus subsp. venerealis bv. venerealis Strain B6 and bv. intermedius Strain 642-21. Genome Announcements, 2014, 2, .	0.8	1
124	Comparative genomic analysis of non-coding sequences and the application of RNA interference tools for bovine functional genomics. Australian Journal of Experimental Agriculture, 2005, 45, 995.	1.0	1
125	Looking through genomics?from the editors. Functional and Integrative Genomics, 2005, 5, 1-3.	1.4	0
126	The Expressed Portion of the Barley Genome. Compendium of Plant Genomes, 2018, , 89-107.	0.3	0

#	Article	IF	CITATIONS
127	A web-based registry for rare genetic lipid disorders. Pathology, 2019, 51, S108.	0.3	0
128	Classification of Information About Proteins. , 2009, , 243-258.		0
129	Current Trends in Biomedical Data and Applications. Studies in Computational Intelligence, 2009, , 1-9.	0.7	0
130	Protein Data Integration Problem. Studies in Computational Intelligence, 2009, , 55-69.	0.7	0
131	An Open Framework for Extensible Multi-stage Bioinformatics Software. Lecture Notes in Computer Science, 2012, , 106-117.	1.0	0