Andrew G Mcarthur

List of Publications by Year
in descending order

83 papers	10,547 citations	76196 40 h-index	60497 81 g-index
91 all docs	91 docs citations	91 times ranked	13979 citing authors

#	Article	IF	Citations
1	CARD 2017: expansion and model-centric curation of the comprehensive antibiotic resistance database. Nucleic Acids Research, 2017, 45, D566-D573.	6.5	2,063
2	The Comprehensive Antibiotic Resistance Database. Antimicrobial Agents and Chemotherapy, 2013, 57, 3348-3357.	1.4	1,615
3	CARD 2020: antibiotic resistome surveillance with the comprehensive antibiotic resistance database. Nucleic Acids Research, 2020, 48, D517-D525.	6.5	1,605
4	Genomic Minimalism in the Early Diverging Intestinal Parasite Giardia lamblia. Science, 2007, 317, 1921-1926.	6.0	725
5	Identification and developmental expression of the full complement of Cytochrome P450 genes in Zebrafish. BMC Genomics, 2010, 11, 643.	1.2	339
6	IslandViewer 3: more flexible, interactive genomic island discovery, visualization and analysis: Figure 1.. Nucleic Acids Research, 2015, 43, W104-W108.	6.5	316
7	A Biogeographical Perspective of the Deep-Sea Hydrothermal Vent Fauna. Advances in Marine Biology, 1998, 34, 353-442.	0.7	194
8	TheGiardiagenome project database. FEMS Microbiology Letters, 2000, 189, 271-273.	0.7	159
9	A spliceosomal intron inGiardialamblia. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3701-3705.	3.3	151
10	A diverse intrinsic antibiotic resistome from a cave bacterium. Nature Communications, 2016, 7, 13803.	5.8	148
11	Clinical utilization of genomics data produced by the international Pseudomonas aeruginosa consortium. Frontiers in Microbiology, 2015, 6, 1036.	1.5	144
12	Evidence for Lateral Transfer of Genes Encoding Ferredoxins, Nitroreductases, NADH Oxidase, and Alcohol Dehydrogenase 3 from Anaerobic Prokaryotes to Giardialamblia and Entamoebahistolytica. Eukaryotic Cell, 2002, 1, 181-190.	3.4	121
13	An interbacterial toxin inhibits target cell growth by synthesizing (p)ppApp. Nature, 2019, 575, 674-678.	13.7	118
14	Isolation, Sequence, Infectivity, and Replication Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2. Emerging Infectious Diseases, 2020, 26, 2054-2063.	2.0	118
15	Impacts of degraded <scp>DNA</scp> on restriction enzyme associated <scp>DNA</scp> sequencing (<scp>RADS</scp>eq). Molecular Ecology Resources, 2015, 15, 1304-1315.	2.2	114
16	Evolutionary trajectory of SARS-CoV-2 and emerging variants. Virology Journal, 2021, 18, 166.	1.4	105
17	Bioinformatics of antimicrobial resistance in the age of molecular epidemiology. Current Opinion in Microbiology, 2015, 27, 45-50.	2.3	103
18	A New Family of Giardial Cysteine-Rich Non-VSP Protein Genes and a Novel Cyst Protein. PLoS ONE, 2006, 1, e44.	1.1	98

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19	A novel Myb-related protein involved in transcriptional activation of encystation genes in Giardia lamblia. Molecular Microbiology, 2002, 46, 971-984.	1.2	96
20	Annexin-like alpha giardins: a new cytoskeletal gene family in Giardia lamblia. International Journal for Parasitology, 2005, 35, 617-626.	1.3	90
21	Evolution of Eukaryotic Transcription: Insights From the Genome of Giardia lamblia. Genome Research, 2004, 14, 1537-1547.	2.4	87
22	A Comparison of Whole Genome Sequencing of SARS-CoV-2 Using Amplicon-Based Sequencing, Random Hexamers, and Bait Capture. Viruses, 2020, 12, 895.	1.5	86
23	Developmental changes in the adhesive disk during Giardia differentiation. Molecular and Biochemical Parasitology, 2005, 141, 199-207.	0.5	83
24	Nrf2b, Novel Zebrafish Paralog of Oxidant-responsive Transcription Factor NF-E2-related Factor 2 (NRF2). Journal of Biological Chemistry, 2012, 287, 4609-4627.	1.6	83
25	Failed Recovery of Glycemic Control and Myofibrillar Protein Synthesis With 2 wk of Physical Inactivity in Overweight, Prediabetic Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1070-1077.	1.7	79
26	Long Serial Analysis of Gene Expression for Gene Discovery and Transcriptome Profiling in the Widespread Marine Coccolithophore Emiliania huxleyi. Applied and Environmental Microbiology, 2006, 72, 252-260.	1.4	76
27	A Small Molecule Discrimination Map of the Antibiotic Resistance Kinome. Chemistry and Biology, 2011, 18, 1591-1601.	6.2	72
28	Antimicrobial resistance surveillance in the genomic age. Annals of the New York Academy of Sciences, 2017, 1388, 78-91.	1.8	71
29	Phylogenetic Analysis of the Cytochrome P450 3 (CYP3) Gene Family. Journal of Molecular Evolution, 2003, 57, 200-211.	0.8	70
30	Human micronucleus counts are correlated with age, smoking, and cesium-137 dose in the GoiÃ¢nia (Brazil) radiological accident. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1994, 313, 57-68.	0.4	69
31	Phylogenetic reconciliation reveals the natural history of glycopeptide antibiotic biosynthesis and resistance. Nature Microbiology, 2019, 4, 1862-1871.	5.9	67
32	Capturing the Resistome: a Targeted Capture Method To Reveal Antibiotic Resistance Determinants in Metagenomes. Antimicrobial Agents and Chemotherapy, 2019, 64, .	1.4	63
33	Protein phosphatase 2A plays a crucial role in Giardia lamblia differentiation. Molecular and Biochemical Parasitology, 2007, 152, 80-89.	0.5	59
34	Profiling Schistosoma mansoni development using serial analysis of gene expression (SAGE). Experimental Parasitology, 2007, 117, 246-258.	0.5	57
35	Partial 28S rDNA Sequences and the Antiquity of Hydrothermal Vent Endemic Gastropods. Molecular Phylogenetics and Evolution, 1999, 13, 255-274.	1.2	49
36	The Evolutionary Origins of Eukaryotic Protein Disulfide Isomerase Domains: New Evidence from the Amitochondriate Protist Giardia lamblia. Molecular Biology and Evolution, 2001, 18, 1455-1463.	3.5	49

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37	Experimental and natural evidence of SARS-CoV-2-infection-induced activation of type I interferon responses. IScience, 2021, 24, 102477.	1.9	49
38	Transcriptome analyses of the Giardia lamblia life cycle. Molecular and Biochemical Parasitology, 2010, 174, 62-65.	0.5	48
39	Iron-Dependent Hydrogenases of Entamoeba histolytica and Giardia lamblia: Activity of the Recombinant Entamoebic Enzyme and Evidence for Lateral Gene Transfer. Biological Bulletin, 2003, 204, 1-9.	0.7	47
40	The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. Nature Communications, 2021, 12, 5163.	5.8	47
41	The Transcriptional Response to Oxidative Stress during Vertebrate Development: Effects of tert-Butylhydroquinone and 2,3,7,8-Tetrachlorodibenzo-p-Dioxin. PLoS ONE, 2014, 9, e113158.	1.1	46
42	Phylogenetic and Functional Analysis of the Vertebrate Cytochrome P450 2 Family. Journal of Molecular Evolution, 2011, 72, 56-71.	0.8	43
43	YphC and YsxC GTPases assist the maturation of the central protuberance, GTPase associated region and functional core of the 50S ribosomal subunit. Nucleic Acids Research, 2016, 44, 8442-8455.	6.5	42
44	Developmental Expression of the Nfe2-Related Factor (Nrf) Transcription Factor Family in the Zebrafish, Danio rerio. PLoS ONE, 2013, 8, e79574.	1.1	40
45	Core Histones of the Amitochondriate Protist, Giardia lamblia. Molecular Biology and Evolution, 2000, 17, 1156-1163.	3.5	38
46	Proteins of the Glycine Decarboxylase Complex in the Hydrogenosome of Trichomonas vaginalis. Eukaryotic Cell, 2006, 5, 2062-2071.	3.4	35
47	Ancyromonadida: A New Phylogenetic Lineage Among the Protozoa Closely Related to the Common Ancestor of Metazoans, Fungi, and Choanoflagellates (Opisthokonta). Journal of Molecular Evolution, 2000, 51, 278-285.	0.8	33
48	Machine Learning for Antimicrobial Resistance Prediction: Current Practice, Limitations, and Clinical Perspective. Clinical Microbiology Reviews, 2022, 35, .	5.7	33
49	Gene expression changes during Giardiaâ€“host cell interactions in serum-free medium. Molecular and Biochemical Parasitology, 2014, 197, 21-23.	0.5	31
50	Detection of Antimicrobial Resistance Using Proteomics and the Comprehensive Antibiotic Resistance Database: A Case Study. Proteomics - Clinical Applications, 2020, 14, e1800182.	0.8	30
51	De novo necroptosis creates an inflammatory environment mediating tumor susceptibility to immune checkpoint inhibitors. Communications Biology, 2020, 3, 645.	2.0	30
52	A functionally divergent hydrogenosomal peptidase with protomitochondrial ancestry. Molecular Microbiology, 2007, 64, 1154-1163.	1.2	27
53	Structural basis for effector transmembrane domain recognition by type VI secretion system chaperones. ELife, 2020, 9, .	2.8	26
54	Giardia lamblia RNA Polymerase II. Journal of Biological Chemistry, 2003, 278, 27804-27810.	1.6	25

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55	In Vitro Generation of Human High-Density-Lipoprotein-Resistant Trypanosoma brucei brucei. Eukaryotic Cell, 2006, 5, 1276-1286.	3.4	22
56	Metformin-induced reductions in tumor growth involves modulation of the gut microbiome. Molecular Metabolism, 2022, 61, 101498.	3.0	21
57	Surface and Air Contamination With Severe Acute Respiratory Syndrome Coronavirus 2 From Hospitalized Coronavirus Disease 2019 Patients in Toronto, Canada, Marchâ€“May 2020. Journal of Infectious Diseases, 2022, 225, 768-776.	1.9	20
58	Plate tectonic history and hot vent biogeography. Geological Society Special Publication, 1996, 118, 225-238.	0.8	19
59	Overcoming Acquired and Native Macrolide Resistance with Bicarbonate. ACS Infectious Diseases, 2020, 6, 2709-2718.	1.8	18
60	Gene duplication and divergence produce divergent MHC genotypes without disassortative mating. Molecular Ecology, 2016, 25, 4355-4367.	2.0	17
61	Characterization of a cetacean aromatase (CYP19) and the phylogeny and functional conservation of vertebrate aromatase. General and Comparative Endocrinology, 2005, 140, 74-83.	0.8	15
62	The transcription factor, Nuclear factor, erythroid 2 (Nfe2), is a regulator of the oxidative stress response during Danio rerio development. Aquatic Toxicology, 2016, 180, 141-154.	1.9	13
63	Non-neutral evolution and reciprocal monophyly of two expressed Mhc class II B genes in Leachâ€™s storm-petrel. Immunogenetics, 2015, 67, 111-123.	1.2	12
64	Genetic population structure of the round whitefish (Prosopium cylindraceum) in North America: multiple markers reveal glacial refugia and regional subdivision. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 836-849.	0.7	12
65	Predicting the recombination potential of severe acute respiratory syndrome coronavirus 2 and Middle East respiratory syndrome coronavirus. Journal of General Virology, 2020, 101, 1251-1260.	1.3	12
66	Functional relatedness in the Inv/Mxiâ€Spa type III secretion system family. Molecular Microbiology, 2017, 103, 973-991.	1.2	11
67	Strandedness during cDNA synthesis, the stranded parameter in htseq-count and analysis of RNA-Seq data. Briefings in Functional Genomics, 2020, 19, 339-342.	1.3	11
68	Enabling genomic island prediction and comparison in multiple genomes to investigate bacterial evolution and outbreaks. Microbial Genomics, 2022, 8, .	1.0	10
69	Molecular evolution of the vesicle coat component Î²COP in Toxoplasma gondii. Molecular Phylogenetics and Evolution, 2007, 44, 1284-1294.	1.2	8
70	Differential Gene Expression between Fall- and Spring-Run Chinook Salmon Assessed by Long Serial Analysis of Gene Expression. Transactions of the American Fisheries Society, 2008, 137, 1378-1388.	0.6	8
71	Identifying novel Î²-lactamase substrate activity through in silico prediction of antimicrobial resistance. Microbial Genomics, 2021, 7, .	1.0	8
72	Genotyping SARS-CoV-2 through an interactive web application. The Lancet Digital Health, 2020, 2, e340-e341.	5.9	7

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73	The cytochrome P450 (CYP) superfamily in cnidarians. Scientific Reports, 2021, 11, 9834.	1.6	7
74	Temporal Dynamics and Evolution of SARS-CoV-2 Demonstrate the Necessity of Ongoing Viral Genome Sequencing in Ontario, Canada. MSphere, 2021, 6, .	1.3	7
75	Schistosoma mansoni albumin, a major defense against oxidative damage, was acquired by lateral gene transfer from a mammalian host. Molecular and Biochemical Parasitology, 2006, 150, 359-363.	0.5	6
76	Nitric oxide-dependent changes in Schistosoma mansoni gene expression. Molecular and Biochemical Parasitology, 2006, 150, 367-370.	0.5	6
77	Inhibition of endogenous MTF-1 signaling in zebrafish embryos identifies novel roles for MTF-1 in development. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1818-1833.	1.9	6
78	Performance Characteristics of Next-Generation Sequencing for the Detection of Antimicrobial Resistance Determinants in Escherichia coli Genomes and Metagenomes. MSystems, 2022, 7, .	1.7	5
79	Datasets for benchmarking antimicrobial resistance genes in bacterial metagenomic and whole genome sequencing. Scientific Data, 2022, 9, .	2.4	4
80	Plasmodium possesses dynein light chain classes that are unique and conserved across species. Infection, Genetics and Evolution, 2009, 9, 337-343.	1.0	3
81	A survey on Canadian pediatric hospital clinical/medical teaching unit implementation during the first and second wave of the COVID-19 pandemic. BMC Medical Education, 2021, 21, 570.	1.0	2
82	Structural Basis for Effector Transmembrane Domain Recognition by Type VI Secretion System Chaperones. FASEB Journal, 2021, 35, .	0.2	0
83	Recurrent multidrug-resistant Salmonella enterica serovar Typhimurium bacteremia in a returned traveller. Jammi, 2020, 5, 264-272.	0.3	0