

Andrew G Mearthur

List of Publications by Year in descending order

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Version: 2024-02-01

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	Surface and Air Contamination With Severe Acute Respiratory Syndrome Coronavirus 2 From Hospitalized Coronavirus Disease 2019 Patients in Toronto, Canada, March–May 2020. <i>Journal of Infectious Diseases</i> , 2022, 225, 768-776.	1.9	20
2	Metformin-induced reductions in tumor growth involves modulation of the gut microbiome. <i>Molecular Metabolism</i> , 2022, 61, 101498.	3.0	21
3	Enabling genomic island prediction and comparison in multiple genomes to investigate bacterial evolution and outbreaks. <i>Microbial Genomics</i> , 2022, 8, .	1.0	10
4	Machine Learning for Antimicrobial Resistance Prediction: Current Practice, Limitations, and Clinical Perspective. <i>Clinical Microbiology Reviews</i> , 2022, 35, .	5.7	33
5	Performance Characteristics of Next-Generation Sequencing for the Detection of Antimicrobial Resistance Determinants in <i>Escherichia coli</i> Genomes and Metagenomes. <i>MSystems</i> , 2022, 7, .	1.7	5
6	Datasets for benchmarking antimicrobial resistance genes in bacterial metagenomic and whole genome sequencing. <i>Scientific Data</i> , 2022, 9, .	2.4	4
7	Identifying novel β -lactamase substrate activity through in silico prediction of antimicrobial resistance. <i>Microbial Genomics</i> , 2021, 7, .	1.0	8
8	Experimental and natural evidence of SARS-CoV-2-infection-induced activation of type I interferon responses. <i>IScience</i> , 2021, 24, 102477.	1.9	49
9	The cytochrome P450 (CYP) superfamily in cnidarians. <i>Scientific Reports</i> , 2021, 11, 9834.	1.6	7
10	Structural Basis for Effector Transmembrane Domain Recognition by Type VI Secretion System Chaperones. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
11	Temporal Dynamics and Evolution of SARS-CoV-2 Demonstrate the Necessity of Ongoing Viral Genome Sequencing in Ontario, Canada. <i>MSphere</i> , 2021, 6, .	1.3	7
12	The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. <i>Nature Communications</i> , 2021, 12, 5163.	5.8	47
13	Evolutionary trajectory of SARS-CoV-2 and emerging variants. <i>Virology Journal</i> , 2021, 18, 166.	1.4	105
14	A survey on Canadian pediatric hospital clinical/medical teaching unit implementation during the first and second wave of the COVID-19 pandemic. <i>BMC Medical Education</i> , 2021, 21, 570.	1.0	2
15	CARD 2020: antibiotic resistance surveillance with the comprehensive antibiotic resistance database. <i>Nucleic Acids Research</i> , 2020, 48, D517-D525.	6.5	1,605
16	Detection of Antimicrobial Resistance Using Proteomics and the Comprehensive Antibiotic Resistance Database: A Case Study. <i>Proteomics - Clinical Applications</i> , 2020, 14, e1800182.	0.8	30
17	Genotyping SARS-CoV-2 through an interactive web application. <i>The Lancet Digital Health</i> , 2020, 2, e340-e341.	5.9	7
18	Overcoming Acquired and Native Macrolide Resistance with Bicarbonate. <i>ACS Infectious Diseases</i> , 2020, 6, 2709-2718.	1.8	18

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19	Isolation, Sequence, Infectivity, and Replication Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2. <i>Emerging Infectious Diseases</i> , 2020, 26, 2054-2063.	2.0	118
20	A Comparison of Whole Genome Sequencing of SARS-CoV-2 Using Amplicon-Based Sequencing, Random Hexamers, and Bait Capture. <i>Viruses</i> , 2020, 12, 895.	1.5	86
21	Strandedness during cDNA synthesis, the stranded parameter in htseq-count and analysis of RNA-Seq data. <i>Briefings in Functional Genomics</i> , 2020, 19, 339-342.	1.3	11
22	De novo necroptosis creates an inflammatory environment mediating tumor susceptibility to immune checkpoint inhibitors. <i>Communications Biology</i> , 2020, 3, 645.	2.0	30
23	Predicting the recombination potential of severe acute respiratory syndrome coronavirus 2 and Middle East respiratory syndrome coronavirus. <i>Journal of General Virology</i> , 2020, 101, 1251-1260.	1.3	12
24	Structural basis for effector transmembrane domain recognition by type VI secretion system chaperones. <i>ELife</i> , 2020, 9, .	2.8	26
25	Recurrent multidrug-resistant <i>Salmonella enterica</i> serovar Typhimurium bacteremia in a returned traveller. <i>Jammi</i> , 2020, 5, 264-272.	0.3	0
26	Phylogenetic reconciliation reveals the natural history of glycopeptide antibiotic biosynthesis and resistance. <i>Nature Microbiology</i> , 2019, 4, 1862-1871.	5.9	67
27	An interbacterial toxin inhibits target cell growth by synthesizing (p)ppApp. <i>Nature</i> , 2019, 575, 674-678.	13.7	118
28	Capturing the Resistome: a Targeted Capture Method To Reveal Antibiotic Resistance Determinants in Metagenomes. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 64, .	1.4	63
29	Failed Recovery of Glycemic Control and Myofibrillar Protein Synthesis With 2 wk of Physical Inactivity in Overweight, Prediabetic Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1070-1077.	1.7	79
30	Genetic population structure of the round whitefish (<i>Prosopium cylindraceum</i>) in North America: multiple markers reveal glacial refugia and regional subdivision. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2018, 75, 836-849.	0.7	12
31	Functional relatedness in the Inv/Mxi ϵ Spa type III secretion system family. <i>Molecular Microbiology</i> , 2017, 103, 973-991.	1.2	11
32	CARD 2017: expansion and model-centric curation of the comprehensive antibiotic resistance database. <i>Nucleic Acids Research</i> , 2017, 45, D566-D573.	6.5	2,063
33	Antimicrobial resistance surveillance in the genomic age. <i>Annals of the New York Academy of Sciences</i> , 2017, 1388, 78-91.	1.8	71
34	A diverse intrinsic antibiotic resistome from a cave bacterium. <i>Nature Communications</i> , 2016, 7, 13803.	5.8	148
35	Gene duplication and divergence produce divergent MHC genotypes without disassortative mating. <i>Molecular Ecology</i> , 2016, 25, 4355-4367.	2.0	17
36	The transcription factor, Nuclear factor, erythroid 2 (Nfe2), is a regulator of the oxidative stress response during <i>Danio rerio</i> development. <i>Aquatic Toxicology</i> , 2016, 180, 141-154.	1.9	13

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37	YphC and YsxC GTPases assist the maturation of the central protuberance, GTPase associated region and functional core of the 50S ribosomal subunit. <i>Nucleic Acids Research</i> , 2016, 44, 8442-8455.	6.5	42
38	Clinical utilization of genomics data produced by the international <i>Pseudomonas aeruginosa</i> consortium. <i>Frontiers in Microbiology</i> , 2015, 6, 1036.	1.5	144
39	Bioinformatics of antimicrobial resistance in the age of molecular epidemiology. <i>Current Opinion in Microbiology</i> , 2015, 27, 45-50.	2.3	103
40	Non-neutral evolution and reciprocal monophyly of two expressed Mhc class II B genes in Leach's storm-petrel. <i>Immunogenetics</i> , 2015, 67, 111-123.	1.2	12
41	Impacts of degraded <scp>DNA</scp> on restriction enzyme associated <scp>DNA</scp> sequencing (<scp>RADS</scp>eq). <i>Molecular Ecology Resources</i> , 2015, 15, 1304-1315.	2.2	114
42	IslandViewer 3: more flexible, interactive genomic island discovery, visualization and analysis: Figure 1.. <i>Nucleic Acids Research</i> , 2015, 43, W104-W108.	6.5	316
43	Gene expression changes during <i>Giardia</i> host cell interactions in serum-free medium. <i>Molecular and Biochemical Parasitology</i> , 2014, 197, 21-23.	0.5	31
44	Inhibition of endogenous MTF-1 signaling in zebrafish embryos identifies novel roles for MTF-1 in development. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1818-1833.	1.9	6
45	The Transcriptional Response to Oxidative Stress during Vertebrate Development: Effects of tert-Butylhydroquinone and 2,3,7,8-Tetrachlorodibenzo-p-Dioxin. <i>PLoS ONE</i> , 2014, 9, e113158.	1.1	46
46	The Comprehensive Antibiotic Resistance Database. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3348-3357.	1.4	1,615
47	Developmental Expression of the Nfe2-Related Factor (Nrf) Transcription Factor Family in the Zebrafish, <i>Danio rerio</i> . <i>PLoS ONE</i> , 2013, 8, e79574.	1.1	40
48	Nrf2b, Novel Zebrafish Paralog of Oxidant-responsive Transcription Factor NF-E2-related Factor 2 (NRF2). <i>Journal of Biological Chemistry</i> , 2012, 287, 4609-4627.	1.6	83
49	A Small Molecule Discrimination Map of the Antibiotic Resistance Kinome. <i>Chemistry and Biology</i> , 2011, 18, 1591-1601.	6.2	72
50	Phylogenetic and Functional Analysis of the Vertebrate Cytochrome P450 2 Family. <i>Journal of Molecular Evolution</i> , 2011, 72, 56-71.	0.8	43
51	Transcriptome analyses of the <i>Giardia lamblia</i> life cycle. <i>Molecular and Biochemical Parasitology</i> , 2010, 174, 62-65.	0.5	48
52	Identification and developmental expression of the full complement of Cytochrome P450 genes in Zebrafish. <i>BMC Genomics</i> , 2010, 11, 643.	1.2	339
53	<i>Plasmodium</i> possesses dynein light chain classes that are unique and conserved across species. <i>Infection, Genetics and Evolution</i> , 2009, 9, 337-343.	1.0	3
54	Differential Gene Expression between Fall- and Spring-Run Chinook Salmon Assessed by Long Serial Analysis of Gene Expression. <i>Transactions of the American Fisheries Society</i> , 2008, 137, 1378-1388.	0.6	8

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55	Molecular evolution of the vesicle coat component \hat{I}^2 COP in <i>Toxoplasma gondii</i> . <i>Molecular Phylogenetics and Evolution</i> , 2007, 44, 1284-1294.	1.2	8
56	A functionally divergent hydrogenosomal peptidase with protomitochondrial ancestry. <i>Molecular Microbiology</i> , 2007, 64, 1154-1163.	1.2	27
57	Profiling <i>Schistosoma mansoni</i> development using serial analysis of gene expression (SAGE). <i>Experimental Parasitology</i> , 2007, 117, 246-258.	0.5	57
58	Protein phosphatase 2A plays a crucial role in <i>Giardia lamblia</i> differentiation. <i>Molecular and Biochemical Parasitology</i> , 2007, 152, 80-89.	0.5	59
59	Genomic Minimalism in the Early Diverging Intestinal Parasite <i>Giardia lamblia</i> . <i>Science</i> , 2007, 317, 1921-1926.	6.0	725
60	A New Family of Giardial Cysteine-Rich Non-VSP Protein Genes and a Novel Cyst Protein. <i>PLoS ONE</i> , 2006, 1, e44.	1.1	98
61	<i>Schistosoma mansoni</i> albumin, a major defense against oxidative damage, was acquired by lateral gene transfer from a mammalian host. <i>Molecular and Biochemical Parasitology</i> , 2006, 150, 359-363.	0.5	6
62	Nitric oxide-dependent changes in <i>Schistosoma mansoni</i> gene expression. <i>Molecular and Biochemical Parasitology</i> , 2006, 150, 367-370.	0.5	6
63	Proteins of the Glycine Decarboxylase Complex in the Hydrogenosome of <i>Trichomonas vaginalis</i> . <i>Eukaryotic Cell</i> , 2006, 5, 2062-2071.	3.4	35
64	In Vitro Generation of Human High-Density-Lipoprotein-Resistant <i>Trypanosoma brucei brucei</i> . <i>Eukaryotic Cell</i> , 2006, 5, 1276-1286.	3.4	22
65	Long Serial Analysis of Gene Expression for Gene Discovery and Transcriptome Profiling in the Widespread Marine Coccolithophore <i>Emiliana huxleyi</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 252-260.	1.4	76
66	Annexin-like alpha giardins: a new cytoskeletal gene family in <i>Giardia lamblia</i> . <i>International Journal for Parasitology</i> , 2005, 35, 617-626.	1.3	90
67	Developmental changes in the adhesive disk during <i>Giardia</i> differentiation. <i>Molecular and Biochemical Parasitology</i> , 2005, 141, 199-207.	0.5	83
68	Characterization of a cetacean aromatase (CYP19) and the phylogeny and functional conservation of vertebrate aromatase. <i>General and Comparative Endocrinology</i> , 2005, 140, 74-83.	0.8	15
69	Evolution of Eukaryotic Transcription: Insights From the Genome of <i>Giardia lamblia</i> . <i>Genome Research</i> , 2004, 14, 1537-1547.	2.4	87
70	Phylogenetic Analysis of the Cytochrome P450 3 (CYP3) Gene Family. <i>Journal of Molecular Evolution</i> , 2003, 57, 200-211.	0.8	70
71	<i>Giardia lamblia</i> RNA Polymerase II. <i>Journal of Biological Chemistry</i> , 2003, 278, 27804-27810.	1.6	25
72	Iron-Dependent Hydrogenases of <i>Entamoeba histolytica</i> and <i>Giardia lamblia</i> : Activity of the Recombinant Entamoebic Enzyme and Evidence for Lateral Gene Transfer. <i>Biological Bulletin</i> , 2003, 204, 1-9.	0.7	47

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73	Evidence for Lateral Transfer of Genes Encoding Ferredoxins, Nitroreductases, NADH Oxidase, and Alcohol Dehydrogenase 3 from Anaerobic Prokaryotes to <i>Giardialamblia</i> and <i>Entamoebahistolytica</i> . <i>Eukaryotic Cell</i> , 2002, 1, 181-190.	3.4	121
74	A spliceosomal intron in <i>Giardialamblia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3701-3705.	3.3	151
75	A novel Myb-related protein involved in transcriptional activation of encystation genes in <i>Giardia lamblia</i> . <i>Molecular Microbiology</i> , 2002, 46, 971-984.	1.2	96
76	The Evolutionary Origins of Eukaryotic Protein Disulfide Isomerase Domains: New Evidence from the Amitochondriate Protist <i>Giardia lamblia</i> . <i>Molecular Biology and Evolution</i> , 2001, 18, 1455-1463.	3.5	49
77	The <i>Giardiagenome</i> project database. <i>FEMS Microbiology Letters</i> , 2000, 189, 271-273.	0.7	159
78	Ancyromonadida: A New Phylogenetic Lineage Among the Protozoa Closely Related to the Common Ancestor of Metazoans, Fungi, and Choanoflagellates (Opisthokonta). <i>Journal of Molecular Evolution</i> , 2000, 51, 278-285.	0.8	33
79	Core Histones of the Amitochondriate Protist, <i>Giardia lamblia</i> . <i>Molecular Biology and Evolution</i> , 2000, 17, 1156-1163.	3.5	38
80	Partial 28S rDNA Sequences and the Antiquity of Hydrothermal Vent Endemic Gastropods. <i>Molecular Phylogenetics and Evolution</i> , 1999, 13, 255-274.	1.2	49
81	A Biogeographical Perspective of the Deep-Sea Hydrothermal Vent Fauna. <i>Advances in Marine Biology</i> , 1998, 34, 353-442.	0.7	194
82	Plate tectonic history and hot vent biogeography. <i>Geological Society Special Publication</i> , 1996, 118, 225-238.	0.8	19
83	Human micronucleus counts are correlated with age, smoking, and cesium-137 dose in the Goiânia (Brazil) radiological accident. <i>Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology</i> , 1994, 313, 57-68.	0.4	69