Andrew G Mcarthur

List of Publications by Year in descending order

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| # | 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. Journal of Infectious Diseases, 2022, 225, 768-776. | 4.0 | 20 |
| 2 | Metformin-induced reductions in tumor growth involves modulation of the gut microbiome. Molecular Metabolism, 2022, 61, 101498. | 6.5 | 21 |
| 3 | Enabling genomic island prediction and comparison in multiple genomes to investigate bacterial evolution and outbreaks. Microbial Genomics, 2022, 8, . | 2.0 | 10 |
| 4 | Machine Learning for Antimicrobial Resistance Prediction: Current Practice, Limitations, and Clinical Perspective. Clinical Microbiology Reviews, 2022, 35, . | 13.6 | 33 |
| 5 | Performance Characteristics of Next-Generation Sequencing for the Detection of Antimicrobial Resistance Determinants in Escherichia coli Genomes and Metagenomes. MSystems, 2022, 7, . | 3.8 | 5 |
| 6 | Datasets for benchmarking antimicrobial resistance genes in bacterial metagenomic and whole genome sequencing. Scientific Data, 2022, 9, . | 5.3 | 4 |
| 7 | Identifying novel β-lactamase substrate activity through in silico prediction of antimicrobial resistance. Microbial Genomics, 2021, 7, . | 2.0 | 8 |
| 8 | Experimental and natural evidence of SARS-CoV-2-infection-induced activation of type I interferon responses. IScience, 2021, 24, 102477. | 4.1 | 49 |
| 9 | The cytochrome P450 (CYP) superfamily in cnidarians. Scientific Reports, 2021, 11, 9834. | 3.3 | 7 |
| 10 | Structural Basis for Effector Transmembrane Domain Recognition by Type VI Secretion System Chaperones. FASEB Journal, 2021, 35, . | 0.5 | 0 |
| 11 | Temporal Dynamics and Evolution of SARS-CoV-2 Demonstrate the Necessity of Ongoing Viral Genome Sequencing in Ontario, Canada. MSphere, 2021, 6, . | 2.9 | 7 |
| 12 | The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. Nature Communications, 2021, 12, 5163. | 12.8 | 47 |
| 13 | Evolutionary trajectory of SARS-CoV-2 and emerging variants. Virology Journal, 2021, 18, 166. | 3.4 | 105 |
| 14 | A survey on Canadian pediatric hospital clinical/medical teaching unit implementation during the first and second wave of the COVID-19 pandemic. BMC Medical Education, 2021, 21, 570. | 2.4 | 2 |
| 15 | CARD 2020: antibiotic resistome surveillance with the comprehensive antibiotic resistance database. Nucleic Acids Research, 2020, 48, D517-D525. | 14.5 | 1,605 |
| 16 | Detection of Antimicrobial Resistance Using Proteomics and the Comprehensive Antibiotic Resistance Database: A Case Study. Proteomics - Clinical Applications, 2020, 14, e1800182. | 1.6 | 30 |
| 17 | Genotyping SARS-CoV-2 through an interactive web application. The Lancet Digital Health, 2020, 2, e340-e341. | 12.3 | 7 |
| 18 | Overcoming Acquired and Native Macrolide Resistance with Bicarbonate. ACS Infectious Diseases, 2020, 6, 2709-2718. | 3.8 | 18 |

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|----|--|------|-----------|
| 19 | Isolation, Sequence, Infectivity, and Replication Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2. Emerging Infectious Diseases, 2020, 26, 2054-2063. | 4.3 | 118 |
| 20 | A Comparison of Whole Genome Sequencing of SARS-CoV-2 Using Amplicon-Based Sequencing, Random Hexamers, and Bait Capture. Viruses, 2020, 12, 895. | 3.3 | 86 |
| 21 | Strandedness during cDNA synthesis, the stranded parameter in htseq-count and analysis of RNA-Seq data. Briefings in Functional Genomics, 2020, 19, 339-342. | 2.7 | 11 |
| 22 | De novo necroptosis creates an inflammatory environment mediating tumor susceptibility to immune checkpoint inhibitors. Communications Biology, 2020, 3, 645. | 4.4 | 30 |
| 23 | 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. | 2.9 | 12 |
| 24 | Structural basis for effector transmembrane domain recognition by type VI secretion system chaperones. ELife, 2020, 9, . | 6.0 | 26 |
| 25 | Recurrent multidrug-resistant Salmonella enterica serovar Typhimurium bacteremia in a returned traveller. Jammi, 2020, 5, 264-272. | 0.5 | 0 |
| 26 | Phylogenetic reconciliation reveals the natural history of glycopeptide antibiotic biosynthesis and resistance. Nature Microbiology, 2019, 4, 1862-1871. | 13.3 | 67 |
| 27 | An interbacterial toxin inhibits target cell growth by synthesizing (p)ppApp. Nature, 2019, 575, 674-678. | 27.8 | 118 |
| 28 | Capturing the Resistome: a Targeted Capture Method To Reveal Antibiotic Resistance Determinants in Metagenomes. Antimicrobial Agents and Chemotherapy, 2019, 64, . | 3.2 | 63 |
| 29 | 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. | 3.6 | 79 |
| 30 | Genetic population structure of the round whitefish (<i>Prosopium cylindraceum</i>) in North America: multiple markers reveal glacial refugia and regional subdivision. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 836-849. | 1.4 | 12 |
| 31 | Functional relatedness in the Inv/Mxi‣pa type III secretion system family. Molecular Microbiology, 2017, 103, 973-991. | 2.5 | 11 |
| 32 | CARD 2017: expansion and model-centric curation of the comprehensive antibiotic resistance database. Nucleic Acids Research, 2017, 45, D566-D573. | 14.5 | 2,063 |
| 33 | Antimicrobial resistance surveillance in the genomic age. Annals of the New York Academy of Sciences, 2017, 1388, 78-91. | 3.8 | 71 |
| 34 | A diverse intrinsic antibiotic resistome from a cave bacterium. Nature Communications, 2016, 7, 13803. | 12.8 | 148 |
| 35 | Gene duplication and divergence produce divergent MHC genotypes without disassortative mating. Molecular Ecology, 2016, 25, 4355-4367. | 3.9 | 17 |
| 36 | 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. | 4.0 | 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. Nucleic Acids Research, 2016, 44, 8442-8455. | 14.5 | 42 |
| 38 | Clinical utilization of genomics data produced by the international Pseudomonas aeruginosa consortium. Frontiers in Microbiology, 2015, 6, 1036. | 3.5 | 144 |
| 39 | Bioinformatics of antimicrobial resistance in the age of molecular epidemiology. Current Opinion in Microbiology, 2015, 27, 45-50. | 5.1 | 103 |
| 40 | Non-neutral evolution and reciprocal monophyly of two expressed Mhc class II B genes in Leach's storm-petrel. Immunogenetics, 2015, 67, 111-123. | 2.4 | 12 |
| 41 | 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. | 4.8 | 114 |
| 42 | IslandViewer 3: more flexible, interactive genomic island discovery, visualization and analysis: Figure 1 Nucleic Acids Research, 2015, 43, W104-W108. | 14.5 | 316 |
| 43 | Gene expression changes during Giardia–host cell interactions in serum-free medium. Molecular and Biochemical Parasitology, 2014, 197, 21-23. | 1.1 | 31 |
| 44 | 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. | 4.1 | 6 |
| 45 | 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. | 2.5 | 46 |
| 46 | The Comprehensive Antibiotic Resistance Database. Antimicrobial Agents and Chemotherapy, 2013, 57, 3348-3357. | 3.2 | 1,615 |
| 47 | Developmental Expression of the Nfe2-Related Factor (Nrf) Transcription Factor Family in the Zebrafish, Danio rerio. PLoS ONE, 2013, 8, e79574. | 2.5 | 40 |
| 48 | Nrf2b, Novel Zebrafish Paralog of Oxidant-responsive Transcription Factor NF-E2-related Factor 2 (NRF2). Journal of Biological Chemistry, 2012, 287, 4609-4627. | 3.4 | 83 |
| 49 | A Small Molecule Discrimination Map of the Antibiotic Resistance Kinome. Chemistry and Biology, 2011, 18, 1591-1601. | 6.0 | 72 |
| 50 | Phylogenetic and Functional Analysis of the Vertebrate Cytochrome P450 2 Family. Journal of Molecular Evolution, 2011, 72, 56-71. | 1.8 | 43 |
| 51 | Transcriptome analyses of the Giardia lamblia life cycle. Molecular and Biochemical Parasitology, 2010, 174, 62-65. | 1.1 | 48 |
| 52 | Identification and developmental expression of the full complement of Cytochrome P450 genes in Zebrafish. BMC Genomics, 2010, 11, 643. | 2.8 | 339 |
| 53 | Plasmodium possesses dynein light chain classes that are unique and conserved across species. Infection, Genetics and Evolution, 2009, 9, 337-343. | 2.3 | 3 |
| 54 | 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. | 1.4 | 8 |

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| 55 | Molecular evolution of the vesicle coat component βCOP in Toxoplasma gondii. Molecular Phylogenetics and Evolution, 2007, 44, 1284-1294. | 2.7 | 8 |
| 56 | A functionally divergent hydrogenosomal peptidase with protomitochondrial ancestry. Molecular Microbiology, 2007, 64, 1154-1163. | 2.5 | 27 |
| 57 | Profiling Schistosoma mansoni development using serial analysis of gene expression (SAGE). Experimental Parasitology, 2007, 117, 246-258. | 1.2 | 57 |
| 58 | Protein phosphatase 2A plays a crucial role in Giardia lamblia differentiation. Molecular and Biochemical Parasitology, 2007, 152, 80-89. | 1.1 | 59 |
| 59 | Genomic Minimalism in the Early Diverging Intestinal Parasite <i>Giardia lamblia</i> . Science, 2007, 317, 1921-1926. | 12.6 | 725 |
| 60 | A New Family of Giardial Cysteine-Rich Non-VSP Protein Genes and a Novel Cyst Protein. PLoS ONE, 2006, 1, e44. | 2.5 | 98 |
| 61 | 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. | 1.1 | 6 |
| 62 | Nitric oxide-dependent changes in Schistosoma mansoni gene expression. Molecular and Biochemical Parasitology, 2006, 150, 367-370. | 1.1 | 6 |
| 63 | Proteins of the Glycine Decarboxylase Complex in the Hydrogenosome of Trichomonas vaginalis. Eukaryotic Cell, 2006, 5, 2062-2071. | 3.4 | 35 |
| 64 | In Vitro Generation of Human High-Density-Lipoprotein-Resistant Trypanosoma brucei brucei. Eukaryotic Cell, 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 Emiliania huxleyi. Applied and Environmental Microbiology, 2006, 72, 252-260. | 3.1 | 76 |
| 66 | Annexin-like alpha giardins: a new cytoskeletal gene family in Giardia lamblia. International Journal for Parasitology, 2005, 35, 617-626. | 3.1 | 90 |
| 67 | Developmental changes in the adhesive disk during Giardia differentiation. Molecular and Biochemical Parasitology, 2005, 141, 199-207. | 1.1 | 83 |
| 68 | Characterization of a cetacean aromatase (CYP19) and the phylogeny and functional conservation of vertebrate aromatase. General and Comparative Endocrinology, 2005, 140, 74-83. | 1.8 | 15 |
| 69 | Evolution of Eukaryotic Transcription: Insights From the Genome of Giardia lamblia. Genome Research, 2004, 14, 1537-1547. | 5.5 | 87 |
| 70 | Phylogenetic Analysis of the Cytochrome P450 3 (CYP3) Gene Family. Journal of Molecular Evolution, 2003, 57, 200-211. | 1.8 | 70 |
| 71 | Giardia lamblia RNA Polymerase II. Journal of Biological Chemistry, 2003, 278, 27804-27810. | 3.4 | 25 |
| 72 | 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. | 1.8 | 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>Giardia lamblia</i> and <i>Entamoeba listolytica</i> . Eukaryotic Cell, 2002, 1, 181-190. | 3.4 | 121 |
| 74 | A spliceosomal intron inGiardialamblia. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3701-3705. | 7.1 | 151 |
| 75 | A novel Myb-related protein involved in transcriptional activation of encystation genes in Giardia lamblia. Molecular Microbiology, 2002, 46, 971-984. | 2.5 | 96 |
| 76 | 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. | 8.9 | 49 |
| 77 | TheGiardiagenome project database. FEMS Microbiology Letters, 2000, 189, 271-273. | 1.8 | 159 |
| 78 | 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. | 1.8 | 33 |
| 79 | Core Histones of the Amitochondriate Protist, Giardia lamblia. Molecular Biology and Evolution, 2000, 17, 1156-1163. | 8.9 | 38 |
| 80 | Partial 28S rDNA Sequences and the Antiquity of Hydrothermal Vent Endemic Gastropods. Molecular Phylogenetics and Evolution, 1999, 13, 255-274. | 2.7 | 49 |
| 81 | A Biogeographical Perspective of the Deep-Sea Hydrothermal Vent Fauna. Advances in Marine Biology, 1998, 34, 353-442. | 1.4 | 194 |
| 82 | Plate tectonic history and hot vent biogeography. Geological Society Special Publication, 1996, 118, 225-238. | 1.3 | 19 |
| 83 | Human micronucleus counts are correlated with age, smoking, and cesium-137 dose in the Goiânia (Brazil) radiological accident. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1994, 313, 57-68. | 0.4 | 69 |