

David Powell

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,521
citations

186209

28
h-index

214721

47
g-index

65
all docs

65
docs citations

65
times ranked

4802
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Age-Related Decline in Primary CD8+ T Cell Responses Is Associated with the Development of Senescence in Virtual Memory CD8+ T Cells. <i>Cell Reports</i> , 2018, 23, 3512-3524. | 2.9 | 194 |
| 2 | Glucose Homeostasis Is Important for Immune Cell Viability during <i>Candida</i> Challenge and Host Survival of Systemic Fungal Infection. <i>Cell Metabolism</i> , 2018, 27, 988-1006.e7. | 7.2 | 162 |
| 3 | Construction and analysis of chromosomal <i>Clostridium difficile</i> mutants. <i>Molecular Microbiology</i> , 2006, 61, 1335-1351. | 1.2 | 149 |
| 4 | Function of the Cytochrome bc ₁ - aa ₃ Branch of the Respiratory Network in Mycobacteria and Network Adaptation Occurring in Response to Its Disruption. <i>Journal of Bacteriology</i> , 2005, 187, 6300-6308. | 1.0 | 133 |
| 5 | Reprogramming Roadmap reveals route to human induced trophoblast stem cells. <i>Nature</i> , 2020, 586, 101-107. | 13.7 | 131 |
| 6 | Effects of Temperature on Gene Expression Patterns in <i>Leptospira interrogans</i> Serovar Lai as Assessed by Whole-Genome Microarrays. <i>Infection and Immunity</i> , 2006, 74, 5848-5859. | 1.0 | 128 |
| 7 | Mesenchymal stromal cell apoptosis is required for their therapeutic function. <i>Nature Communications</i> , 2021, 12, 6495. | 5.8 | 91 |
| 8 | Identification of Novel <i>Acinetobacter baumannii</i> Type VI Secretion System Antibacterial Effector and Immunity Pairs. <i>Infection and Immunity</i> , 2018, 86, . | 1.0 | 88 |
| 9 | The transcriptomic response of <i>Acinetobacter baumannii</i> to colistin and doripenem alone and in combination in an <i>in vitro</i> pharmacokinetics/pharmacodynamics model. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 1303-1313. | 1.3 | 85 |
| 10 | Global Gene Expression in Skeletal Muscle from Well-Trained Strength and Endurance Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 546-565. | 0.2 | 82 |
| 11 | Mesenchymal Niche-Derived Neuregulin-1 Drives Intestinal Stem Cell Proliferation and Regeneration of Damaged Epithelium. <i>Cell Stem Cell</i> , 2020, 27, 646-662.e7. | 5.2 | 82 |
| 12 | Convergent Adaptation in the Dominant Global Hospital Clone ST239 of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>MBio</i> , 2015, 6, e00080. | 1.8 | 81 |
| 13 | PAT-seq: a method to study the integration of 3' UTR dynamics with gene expression in the eukaryotic transcriptome. <i>Rna</i> , 2015, 21, 1502-1510. | 1.6 | 78 |
| 14 | Cell Type of Origin Dictates the Route to Pluripotency. <i>Cell Reports</i> , 2017, 21, 2649-2660. | 2.9 | 49 |
| 15 | Translation complex profile sequencing to study the <i>in vivo</i> dynamics of mRNA-ribosome interactions during translation initiation, elongation and termination. <i>Nature Protocols</i> , 2017, 12, 697-731. | 5.5 | 43 |
| 16 | Topconfacts: a package for confident effect sizes in differential expression analysis provides a more biologically useful ranked gene list. <i>Genome Biology</i> , 2019, 20, 67. | 3.8 | 43 |
| 17 | Community-driven development for computational biology at Sprints, Hackathons and Codefests. <i>BMC Bioinformatics</i> , 2014, 15, S7. | 1.2 | 42 |
| 18 | RNAseq: A Pipeline for complete and reproducible RNA-seq analysis that runs anywhere with speed and ease. <i>Journal of Open Source Software</i> , 2018, 3, 583. | 2.0 | 41 |

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|----|--|-----|-----------|
| 19 | The RNA-Binding Chaperone Hfq Is an Important Global Regulator of Gene Expression in <i>Pasteurella multocida</i> and Plays a Crucial Role in Production of a Number of Virulence Factors, Including Hyaluronic Acid Capsule. <i>Infection and Immunity</i> , 2016, 84, 1361-1370. | 1.0 | 40 |
| 20 | Comparison of the RpoH-Dependent Regulon and General Stress Response in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2006, 188, 4769-4776. | 1.0 | 38 |
| 21 | Global Gene Expression Profile of <i>Acinetobacter baumannii</i> During Bacteremia. <i>Journal of Infectious Diseases</i> , 2017, 215, S52-S57. | 1.9 | 38 |
| 22 | Concurrent Host-Pathogen Transcriptional Responses in a <i>Clostridium perfringens</i> Murine Myonecrosis Infection. <i>MBio</i> , 2018, 9, . | 1.8 | 38 |
| 23 | De novo transcriptome assembly for the spiny mouse (<i>Acomys cahirinus</i>). <i>Scientific Reports</i> , 2017, 7, 8996. | 1.6 | 37 |
| 24 | A Metabolic Checkpoint for the Yeast-to-Hyphae Developmental Switch Regulated by Endogenous Nitric Oxide Signaling. <i>Cell Reports</i> , 2018, 25, 2244-2258.e7. | 2.9 | 37 |
| 25 | Genomic Evidence for a Globally Distributed, Bimodal Population in the Ovine Footrot Pathogen <i>Dichelobacter nodosus</i> . <i>MBio</i> , 2014, 5, e01821-14. | 1.8 | 36 |
| 26 | Emergence of High-Level Colistin Resistance in an <i>Acinetobacter baumannii</i> Clinical Isolate Mediated by Inactivation of the Global Regulator H-NS. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, . | 1.4 | 36 |
| 27 | <i>Wolbachia</i> enhances insect-specific flavivirus infection in <i>Aedes aegypti</i> mosquitoes. <i>Ecology and Evolution</i> , 2018, 8, 5441-5454. | 0.8 | 35 |
| 28 | Natural Variation Identifies ICARUS1, a Universal Gene Required for Cell Proliferation and Growth at High Temperatures in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2015, 11, e1005085. | 1.5 | 34 |
| 29 | Integration of Posttranscriptional Gene Networks into Metabolic Adaptation and Biofilm Maturation in <i>Candida albicans</i> . <i>PLoS Genetics</i> , 2015, 11, e1005590. | 1.5 | 31 |
| 30 | Comparative analysis of long DNA sequences by per element information content using different contexts. <i>BMC Bioinformatics</i> , 2007, 8, S10. | 1.2 | 30 |
| 31 | The role of antigen presenting cells in the induction of HIV-1 latency in resting CD4+ T-cells. <i>Retrovirology</i> , 2015, 12, 76. | 0.9 | 29 |
| 32 | A Versatile Strategy for Isolating a Highly Enriched Population of Intestinal Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 321-329. | 2.3 | 27 |
| 33 | Determination of the small RNA GcvB regulon in the Gram-negative bacterial pathogen <i>Pasteurella multocida</i> and identification of the GcvB seed binding region. <i>Rna</i> , 2018, 24, 704-720. | 1.6 | 26 |
| 34 | Functional and genomic characterization of a xenograft model system for the study of metastasis in triple-negative breast cancer. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, . | 1.2 | 23 |
| 35 | POS-1 Promotes Endo-mesoderm Development by Inhibiting the Cytoplasmic Polyadenylation of neg-1 mRNA. <i>Developmental Cell</i> , 2015, 34, 108-118. | 3.1 | 22 |
| 36 | Impact of endurance exercise training on adipocyte microRNA expression in overweight men. <i>FASEB Journal</i> , 2017, 31, 161-171. | 0.2 | 21 |

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|----|---|-----|-----------|
| 37 | Segregation of Naturally Occurring Mitochondrial DNA Variants in a Mini-Pig Model. <i>Genetics</i> , 2016, 202, 931-944. | 1.2 | 20 |
| 38 | VAGUE: a graphical user interface for the Velvet assembler. <i>Bioinformatics</i> , 2013, 29, 264-265. | 1.8 | 19 |
| 39 | The YEATS Domain Histone Crotonylation Readers Control Virulence-Related Biology of a Major Human Pathogen. <i>Cell Reports</i> , 2020, 31, 107528. | 2.9 | 19 |
| 40 | Requirement for cleavage factor IIm in the control of alternative polyadenylation in breast cancer cells. <i>Rna</i> , 2020, 26, 969-981. | 1.6 | 18 |
| 41 | Fast, Optimal Alignment of Three Sequences Using Linear Gap Costs. <i>Journal of Theoretical Biology</i> , 2000, 207, 325-336. | 0.8 | 17 |
| 42 | PUMA promotes apoptosis of hematopoietic progenitors driving leukemic progression in a mouse model of myelodysplasia. <i>Cell Death and Differentiation</i> , 2016, 23, 1049-1059. | 5.0 | 15 |
| 43 | A novel role for <i>Lyl1</i> in primitive erythropoiesis. <i>Development (Cambridge)</i> , 2018, 145, . | 1.2 | 14 |
| 44 | Compression and approximate matching. <i>Computer Journal</i> , 1999, 42, 1-10. | 1.5 | 13 |
| 45 | Restricted cell cycle is essential for clonal evolution and therapeutic resistance of pre-leukemic stem cells. <i>Nature Communications</i> , 2018, 9, 3535. | 5.8 | 13 |
| 46 | Bionitio: demonstrating and facilitating best practices for bioinformatics command-line software. <i>GigaScience</i> , 2019, 8, . | 3.3 | 13 |
| 47 | A versatile divide and conquer technique for optimal string alignment. <i>Information Processing Letters</i> , 1999, 70, 127-139. | 0.4 | 11 |
| 48 | EST-PAC a web package for EST annotation and protein sequence prediction. <i>Source Code for Biology and Medicine</i> , 2006, 1, 2. | 1.7 | 9 |
| 49 | Modelling-Alignment for Non-random Sequences. <i>Lecture Notes in Computer Science</i> , 2004, , 203-214. | 1.0 | 8 |
| 50 | Quantifying splice-site usage: a simple yet powerful approach to analyze splicing. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab041. | 1.5 | 7 |
| 51 | câ€Rel employs multiple mechanisms to promote the thymic development and peripheral function of regulatory T cells in mice. <i>European Journal of Immunology</i> , 2021, 51, 2006-2026. | 1.6 | 7 |
| 52 | Pan-transcriptomic analysis identified common differentially expressed genes of <i>Acinetobacter baumannii</i> in response to polymyxin treatments. <i>Molecular Omics</i> , 2020, 16, 327-338. | 1.4 | 7 |
| 53 | Haplotyping the human leukocyte antigen system from single chromosomes. <i>Scientific Reports</i> , 2016, 6, 30381. | 1.6 | 6 |
| 54 | The Detection and Bioinformatic Analysis of Alternative 3' UTR Isoforms as Potential Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5322. | 1.8 | 5 |

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|----|---|-----|-----------|
| 55 | Genetic and pharmacological evidence for kinetic competition between alternative poly(A) sites in yeast. <i>ELife</i> , 2021, 10, . | 2.8 | 5 |
| 56 | The Role and Targets of the RNA-Binding Protein ProQ in the Gram-Negative Bacterial Pathogen <i>Pasteurella multocida</i> . <i>Journal of Bacteriology</i> , 2022, 204, e0059221. | 1.0 | 4 |
| 57 | Transcriptional profile in afferent lymph cells following vaccination with liposomes incorporating CpG. <i>Immunology</i> , 2015, 144, 518-529. | 2.0 | 3 |
| 58 | Transcriptomic analysis of preovipositional embryonic arrest in a nonsquamate reptile (<i>Chelonia</i>) Tj ETQq0 0 0 rgBT/Overlock ₃ 10 Tf 50 6 | 2.0 | 3 |
| 59 | A novel cause of DKC1 -related bone marrow failure: Partial deletion of the 3' untranslated region. <i>EJHaem</i> , 2021, 2, 157-166. | 0.4 | 1 |
| 60 | Maintenance of primitive haematopoiesis is shared by SCL and LYL1. <i>Experimental Hematology</i> , 2017, 53, S115. | 0.2 | 0 |
| 61 | Unsupervised Learning in Metagame. <i>Lecture Notes in Computer Science</i> , 1999, , 24-35. | 1.0 | 0 |