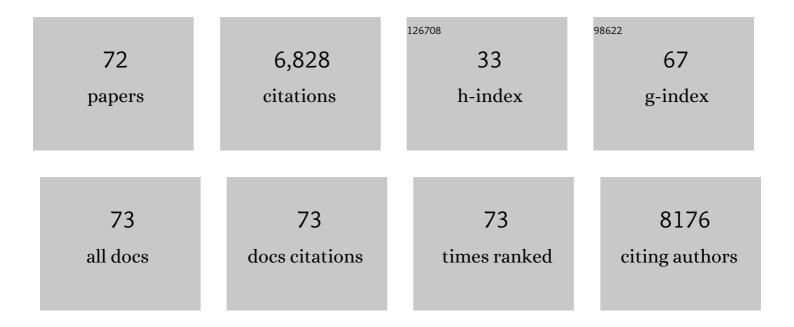
## Joseph P Bielawski

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Statistical methods for detecting molecular adaptation. Trends in Ecology and Evolution, 2000, 15, 496-503.  | 4.2 | 1,532     |
| 2  | Accuracy and Power of the Likelihood Ratio Test in Detecting Adaptive Molecular Evolution.<br>Molecular Biology and Evolution, 2001, 18, 1585-1592.  | 3.5 | 658       |
| 3  | Ancestral polymorphism and adaptive evolution in the trichothecene mycotoxin gene cluster of<br>phytopathogenic Fusarium. Proceedings of the National Academy of Sciences of the United States of<br>America, 2002, 99, 9278-9283. | 3.3 | 489       |
| 4  | Prevalence and Evolution of Core Photosystem II Genes in Marine Cyanobacterial Viruses and Their<br>Hosts. PLoS Biology, 2006, 4, e234.  | 2.6 | 394       |
| 5  | Accuracy and Power of Bayes Prediction of Amino Acid Sites Under Positive Selection. Molecular<br>Biology and Evolution, 2002, 19, 950-958.  | 3.5 | 388       |
| 6  | Crohn's Disease Exclusion Diet Plus Partial Enteral Nutrition Induces Sustained Remission in a<br>Randomized Controlled Trial. Gastroenterology, 2019, 157, 440-450.e8.  | 0.6 | 378       |
| 7  | A Maximum Likelihood Method for Detecting Functional Divergence at Individual Codon Sites, with Application to Gene Family Evolution. Journal of Molecular Evolution, 2004, 59, 121-32.  | 0.8 | 267       |
| 8  | Multilocus Genotyping Assays for Single Nucleotide Polymorphism-Based Subtyping of <i>Listeria monocytogenes</i> Isolates. Applied and Environmental Microbiology, 2008, 74, 7629-7642.  | 1.4 | 173       |
| 9  | Maximum likelihood methods for detecting adaptive evolution after gene duplication. Journal of Structural and Functional Genomics, 2003, 3, 201-212.   | 1.2 | 152       |
| 10 | Potential photosynthesis gene recombination between Prochlorococcus and Synechococcus via viral intermediates. Environmental Microbiology, 2005, 7, 1505-1513.   | 1.8 | 149       |
| 11 | Novel Proteorhodopsin variants from the Mediterranean and Red Seas. Environmental Microbiology, 2003, 5, 842-849.  | 1.8 | 109       |
| 12 | Positive and Negative Selection in the DAZ Gene Family. Molecular Biology and Evolution, 2001, 18, 523-529.  | 3.5 | 100       |
| 13 | Portal protein diversity and phage ecology. Environmental Microbiology, 2008, 10, 2810-2823.   | 1.8 | 100       |
| 14 | Widespread Adaptive Evolution in the Human Immunodeficiency Virus Type 1 Genome. Journal of Molecular Evolution, 2003, 57, 212-221.  | 0.8 | 98        |
| 15 | Darwinian adaptation of proteorhodopsin to different light intensities in the marine environment.<br>Proceedings of the National Academy of Sciences of the United States of America, 2004, 101,<br>14824-14829.                   | 3.3 | 96        |
| 16 | Multi-omics differentially classify disease state and treatment outcome in pediatric Crohn's disease.<br>Microbiome, 2018, 6, 13.  | 4.9 | 94        |
| 17 | Adaptive Evolution of Multicolored Fluorescent Proteins in Reef-Building Corals. Journal of Molecular Evolution, 2006, 62, 332-339.  | 0.8 | 90        |
| 18 | Maximum likelihood methods for detecting adaptive evolution after gene duplication. Journal of Structural and Functional Genomics, 2003, 3, 201-12.  | 1.2 | 90        |

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|----|--|-----|-----------|
| 19 | Positive Darwinian Selection in the Piston That Powers Proton Pumps in Complex I of the Mitochondria of Pacific Salmon. PLoS ONE, 2011, 6, e24127.   | 1.1 | 84        |
| 20 | Rates of Nucleotide Substitution and Mammalian Nuclear Gene Evolution: Approximate and<br>Maximum-Likelihood Methods Lead to Different Conclusions. Genetics, 2000, 156, 1299-1308.  | 1.2 | 75        |
| 21 | Substitution Rates in Drosophila Nuclear Genes: Implications for Translational Selection. Genetics, 2001, 157, 295-305.  | 1.2 | 74        |
| 22 | Molecular Evolutionary Characterization of a V1R Subfamily Unique to Strepsirrhine Primates.<br>Genome Biology and Evolution, 2014, 6, 213-227.  | 1.1 | 71        |
| 23 | Review and meta-analysis of natural selection in mitochondrial complex I in metazoans. Journal of<br>Zoological Systematics and Evolutionary Research, 2015, 53, 1-17.   | 0.6 | 70        |
| 24 | Early Changes in Microbial Community Structure Are Associated with Sustained Remission After<br>Nutritional Treatment of Pediatric Crohn's Disease. Inflammatory Bowel Diseases, 2016, 22, 2853-2862.                                      | 0.9 | 69        |
| 25 | The origin and evolution of geminivirus-related DNA sequences in Nicotiana. Heredity, 2004, 92, 352-358.   | 1.2 | 65        |
| 26 | The relationship between fecal bile acids and microbiome community structure in pediatric Crohn's<br>disease. ISME Journal, 2020, 14, 702-713.   | 4.4 | 59        |
| 27 | Randomly amplified polymorphic DNA (RAPD) analysis of Atlantic Coast striped bass. Heredity, 1997, 78, 32-40.  | 1.2 | 57        |
| 28 | Adaptive Diversification of Vomeronasal Receptor 1 Genes in Rodents. Journal of Molecular Evolution, 2005, 60, 566-576.  | 0.8 | 56        |
| 29 | Mutation Patterns of Mitochondrial H- and L-Strand DNA in Closely Related Cyprinid Fishes. Genetics, 2002, 161, 1589-1597.   | 1.2 | 52        |
| 30 | Seasonal assemblages and shortâ€lived blooms in coastal northâ€west <scp>A</scp> tlantic<br><scp>O</scp> cean bacterioplankton. Environmental Microbiology, 2015, 17, 3642-3661.   | 1.8 | 51        |
| 31 | Recombination Detection Under Evolutionary Scenarios Relevant to Functional Divergence. Journal of Molecular Evolution, 2011, 73, 273-286.   | 0.8 | 49        |
| 32 | BioMiCo: a supervised Bayesian model for inference of microbial community structure. Microbiome, 2015, 3, 8.   | 4.9 | 43        |
| 33 | Evolutionary Rates and Expression Level in Chlamydomonas. Genetics, 2006, 172, 1567-1576.  | 1.2 | 37        |
| 34 | Bacterial Taxa and Functions Are Predictive of Sustained Remission Following Exclusive Enteral<br>Nutrition in Pediatric Crohn's Disease. Inflammatory Bowel Diseases, 2020, 26, 1026-1037.  | 0.9 | 35        |
| 35 | Gene Conversion and Functional Divergence in the ?-Globin Gene Family. Journal of Molecular<br>Evolution, 2004, 59, 177-189.   | 0.8 | 34        |
| 36 | The Gut Microbiome of Pediatric Crohn's Disease Patients Differs from Healthy Controls in Genes That<br>Can Influence the Balance Between a Healthy and Dysregulated Immune Response. Inflammatory Bowel<br>Diseases, 2016, 22, 2607-2618. | 0.9 | 33        |

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|----|---|------|-----------|
| 37 | Functional Divergence of the Nuclear Receptor <i>NR2C1</i> as a Modulator of Pluripotentiality<br>During Hominid Evolution. Genetics, 2016, 203, 905-922.   | 1.2  | 33        |
| 38 | Maximum Likelihood Methods for Detecting Adaptive Protein Evolution. , 2005, , 103-124.   |      | 32        |
| 39 | BiomeNet: A Bayesian Model for Inference of Metabolic Divergence among Microbial Communities.<br>PLoS Computational Biology, 2014, 10, e1003918.  | 1.5  | 30        |
| 40 | Evolutionary rate variation among vertebrate β globin genes: Implications for dating gene family duplication events. Gene, 2006, 380, 21-29.  | 1.0  | 29        |
| 41 | Novel Strategies for Applied Metagenomics. Inflammatory Bowel Diseases, 2016, 22, 709-718.  | 0.9  | 25        |
| 42 | Shifting Balance on a Static Mutation–Selection Landscape: A Novel Scenario of Positive Selection.<br>Molecular Biology and Evolution, 2016, 34, msw237.  | 3.5  | 24        |
| 43 | Reconciling Ecological and Genomic Divergence among Lineages of Listeria under an "Extended Mosaic<br>Genome Concept". Molecular Biology and Evolution, 2009, 26, 2605-2615.                                    | 3.5  | 23        |
| 44 | Phenomenological Load on Model Parameters Can Lead to False Biological Conclusions. Molecular<br>Biology and Evolution, 2018, 35, 1473-1488.  | 3.5  | 23        |
| 45 | Large-scale analyses of synonymous substitution rates can be sensitive to assumptions about the process of mutation. Gene, 2006, 378, 58-64.  | 1.0  | 21        |
| 46 | Proposed standard nomenclature for the .ALPHA and .BETAglobin gene families. Genes and Genetic Systems, 2006, 81, 367-371.  | 0.2  | 20        |
| 47 | Re-evaluating the relationship between missing heritability and the microbiome. Microbiome, 2020, 8, 87.  | 4.9  | 17        |
| 48 | Methods for selecting fixed-effect models for heterogeneous codon evolution, with comments on their application to gene and genome data. BMC Evolutionary Biology, 2007, 7, S5.                                 | 3.2  | 15        |
| 49 | Likelihood-Based Clustering (LiBaC) for Codon Models, a Method for Grouping Sites according to<br>Similarities in the Underlying Process of Evolution. Molecular Biology and Evolution, 2008, 25,<br>1995-2007. | 3.5  | 13        |
| 50 | Inference of Episodic Changes in Natural Selection Acting on Protein Coding Sequences via CODEML.<br>Current Protocols in Bioinformatics, 2016, 54, 6.15.1-6.15.32.   | 25.8 | 13        |
| 51 | Randomly amplified polymorphic DNA (RAPD) analysis of Atlantic Coast striped bass. Heredity, 1997, 78, 32-40.   | 1.2  | 13        |
| 52 | Detecting the Signatures of Adaptive Evolution in Protein oding Genes. Current Protocols in Molecular Biology, 2013, 101, Unit 19.1   | 2.9  | 12        |
| 53 | A Phenotype–Genotype Codon Model for Detecting Adaptive Evolution. Systematic Biology, 2020, 69, 722-738.   | 2.7  | 12        |
| 54 | The role of purifying selection in the origin and maintenance of complex function. Studies in History and Philosophy of Science Part A, 2021, 87, 125-135.  | 0.6  | 12        |

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|----|--|-----|-----------|
| 55 | Improving Evolutionary Models for Mitochondrial Protein Data with Site-Class Specific Amino Acid<br>Exchangeability Matrices. PLoS ONE, 2013, 8, e55816.   | 1.1 | 11        |
| 56 | Improved inference of site-specific positive selection under a generalized parametric codon model<br>when there are multinucleotide mutations and multiple nonsynonymous rates. BMC Evolutionary<br>Biology, 2019, 19, 22.                     | 3.2 | 11        |
| 57 | Trade-Offs Between Efficiency and Robustness in Bacterial Metabolic Networks Are Associated with<br>Niche Breadth. Journal of Molecular Evolution, 2009, 68, 506-515.  | 0.8 | 9         |
| 58 | Introduction to Genome Biology and Diversity. Methods in Molecular Biology, 2019, 1910, 3-31.  | 0.4 | 8         |
| 59 | Inference of Functional Divergence Among Proteins When the Evolutionary Process is Non-stationary. Journal of Molecular Evolution, 2013, 76, 205-215.  | 0.8 | 7         |
| 60 | Consequences of Stability-Induced Epistasis for Substitution Rates. Molecular Biology and Evolution, 2020, 37, 3131-3148.  | 3.5 | 7         |
| 61 | Evolution of amino acid propensities under stability-mediated epistasis. Molecular Biology and Evolution, 2022, , .  | 3.5 | 7         |
| 62 | Phylogenetic relationships within the genus Pimephales as inferred from ND4 and ND4L nucleotide sequences. Journal of Fish Biology, 2002, 61, 293-297.   | 0.7 | 6         |
| 63 | Smoothed Bootstrap Aggregation for Assessing Selection Pressure at Amino Acid Sites. Molecular<br>Biology and Evolution, 2016, 33, 2976-2989.  | 3.5 | 6         |
| 64 | Shifts in amino acid preferences as proteins evolve: A synthesis of experimental and theoretical work.<br>Protein Science, 2021, 30, 2009-2028.  | 3.1 | 5         |
| 65 | Investigating the gut microbial community and genes in children with differing levels of change in<br>serum asparaginase activity during pegaspargase treatment for acute lymphoblastic leukemia. Leukemia<br>and Lymphoma, 2021, 62, 927-936. | 0.6 | 4         |
| 66 | Looking for Darwin in Genomic Sequences: Validity and Success Depends on the Relationship Between<br>Model and Data. Methods in Molecular Biology, 2019, 1910, 399-426.  | 0.4 | 4         |
| 67 | ModL: exploring and restoring regularity when testing for positive selection. Bioinformatics, 2019, 35, 2545-2554.   | 1.8 | 3         |
| 68 | Gut bacterial gene changes following pegaspargase treatment in pediatric patients with acute<br>lymphoblastic leukemia. Leukemia and Lymphoma, 2021, 62, 1-12.   | 0.6 | 2         |
| 69 | Portal protein diversity and phage ecology. Environmental Microbiology, 2011, 13, 2832-2832.   | 1.8 | Ο         |
| 70 | Bayesian Inference of Microbial Community Structure from Metagenomic Data Using BioMiCo.<br>Methods in Molecular Biology, 2018, 1849, 267-289.   | 0.4 | 0         |
| 71 | Likelihood-based clustering (LiBaC) for codon models. , 2012, , 60-72.   |     | 0         |
| 72 | Novel application of survival models for predicting microbial community transitions with variable selection for eDNA. Applied and Environmental Microbiology, 2022, , AEM0214621.  | 1.4 | 0         |