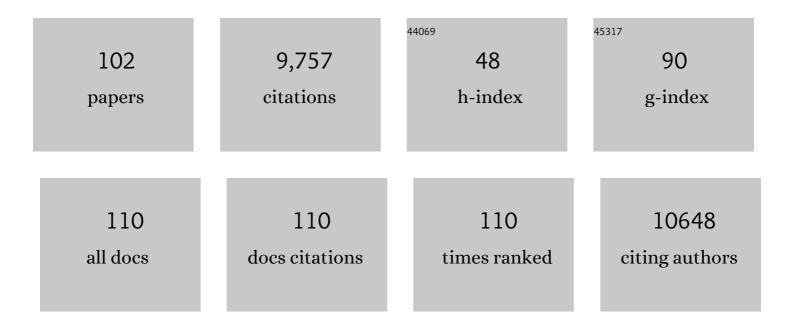
Nicolas Galtier

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2623970/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Population Size Does Not Influence Mitochondrial Genetic Diversity in Animals. Science, 2006, 312, 570-572. | 12.6 | 773 |
| 2 | Biased Gene Conversion and the Evolution of Mammalian Genomic Landscapes. Annual Review of Genomics and Human Genetics, 2009, 10, 285-311. | 6.2 | 607 |
| 3 | Determinants of genetic diversity. Nature Reviews Genetics, 2016, 17, 422-433. | 16.3 | 587 |
| 4 | Strong Variations of Mitochondrial Mutation Rate across Mammalsthe Longevity Hypothesis. Molecular Biology and Evolution, 2007, 25, 120-130. | 8.9 | 394 |
| 5 | Shedding Light on the Grey Zone of Speciation along a Continuum of Genomic Divergence. PLoS Biology, 2016, 14, e2000234. | 5.6 | 381 |
| 6 | Relationships Between Genomic G+C Content, RNA Secondary Structures, and Optimal Growth Temperature in Prokaryotes. Journal of Molecular Evolution, 1997, 44, 632-636. | 1.8 | 370 |
| 7 | Maximum-Likelihood Phylogenetic Analysis Under a Covarion-like Model. Molecular Biology and Evolution, 2001, 18, 866-873. | 8.9 | 260 |
| 8 | Molecular Phylogeny of Cyprinidae Inferred fromcytochrome bDNA Sequences. Molecular Phylogenetics and Evolution, 1998, 9, 100-108. | 2.7 | 241 |
| 9 | Large Variation in the Ratio of Mitochondrial to Nuclear Mutation Rate across Animals: Implications for Genetic Diversity and the Use of Mitochondrial DNA as a Molecular Marker. Molecular Biology and Evolution, 2017, 34, 2762-2772. | 8.9 | 240 |
| 10 | Adaptation or biased gene conversion? Extending the null hypothesis of molecular evolution. Trends in Genetics, 2007, 23, 273-277. | 6.7 | 214 |
| 11 | Contrasting GC-content dynamics across 33 mammalian genomes: Relationship with life-history traits and chromosome sizes. Genome Research, 2010, 20, 1001-1009. | 5.5 | 195 |
| 12 | Adaptive Protein Evolution in Animals and the Effective Population Size Hypothesis. PLoS Genetics, 2016, 12, e1005774. | 3.5 | 176 |
| 13 | Detecting Bottlenecks and Selective Sweeps From DNA Sequence Polymorphism. Genetics, 2000, 155, 981-987. | 2.9 | 173 |
| 14 | GC-biased gene conversion promotes the fixation of deleterious amino acid changes in primates. Trends in Genetics, 2009, 25, 1-5. | 6.7 | 167 |
| 15 | Bio++: Efficient Extensible Libraries and Tools for Computational Molecular Evolution. Molecular Biology and Evolution, 2013, 30, 1745-1750. | 8.9 | 163 |
| 16 | Less Is More in Mammalian Phylogenomics: AT-Rich Genes Minimize Tree Conflicts and Unravel the Root of Placental Mammals. Molecular Biology and Evolution, 2013, 30, 2134-2144. | 8.9 | 158 |
| 17 | Reference-Free Population Genomics from Next-Generation Transcriptome Data and the Vertebrate–Invertebrate Gap. PLoS Genetics, 2013, 9, e1003457. | 3.5 | 157 |
| 18 | Vanishing GC-Rich Isochores in Mammalian Genomes. Genetics, 2002, 162, 1837-1847. | 2.9 | 157 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Crossing the Species Barrier: Genomic Hotspots of Introgression between Two Highly Divergent Ciona intestinalis Species. Molecular Biology and Evolution, 2013, 30, 1574-1587. | 8.9 | 148 |
| 20 | Gene conversion drives GC content evolution in mammalian histones. Trends in Genetics, 2003, 19, 65-68. | 6.7 | 136 |
| 21 | A Model-Based Approach for Detecting Coevolving Positions in a Molecule. Molecular Biology and Evolution, 2005, 22, 1919-1928. | 8.9 | 131 |
| 22 | Detecting positive selection within genomes: the problem of biased gene conversion. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2571-2580. | 4.0 | 130 |
| 23 | Quantification of GC-biased gene conversion in the human genome. Genome Research, 2015, 25, 1215-1228. | 5.5 | 127 |
| 24 | Mutation hot spots in mammalian mitochondrial DNA. Genome Research, 2005, 16, 215-222. | 5.5 | 116 |
| 25 | The Population Genomics of a Fast Evolver: High Levels of Diversity, Functional Constraint, and Molecular Adaptation in the Tunicate Ciona intestinalis. Genome Biology and Evolution, 2012, 4, 852-861. | 2.5 | 116 |
| 26 | Recombination explains isochores in mammalian genomes. Trends in Genetics, 2003, 19, 128-130. | 6.7 | 111 |
| 27 | Codon Usage Bias in Animals: Disentangling the Effects of Natural Selection, Effective Population Size, and GC-Biased Gene Conversion. Molecular Biology and Evolution, 2018, 35, 1092-1103. | 8.9 | 111 |
| 28 | Determination of Mitochondrial Genetic Diversity in Mammals. Genetics, 2008, 178, 351-361. | 2.9 | 107 |
| 29 | Bio++: a set of C++ libraries for sequence analysis, phylogenetics, molecular evolution and population genetics. BMC Bioinformatics, 2006, 7, 188. | 2.6 | 101 |
| 30 | Patterns of cross-contamination in a multispecies population genomic project: detection, quantification, impact, and solutions. BMC Biology, 2017, 15, 25. | 3.8 | 100 |
| 31 | Phylogenetic Relationships within GenusLeuciscus(Pisces, Cyprinidae) in Portuguese Fresh Waters, Based on Mitochondrial DNA CytochromebSequences. Molecular Phylogenetics and Evolution, 1997, 8, 435-442. | 2.7 | 97 |
| 32 | Nextâ€generation sequencing of transcriptomes: a guide to RNA isolation in nonmodel animals. Molecular Ecology Resources, 2011, 11, 650-661. | 4.8 | 92 |
| 33 | Mitochondrial whims: metabolic rate, longevity and the rate of molecular evolution. Biology Letters, 2009, 5, 413-416. | 2.3 | 90 |
| 34 | Avian Genomes Revisited: Hidden Genes Uncovered and the Rates versus Traits Paradox in Birds. Molecular Biology and Evolution, 2017, 34, 3123-3131. | 8.9 | 90 |
| 35 | Population genomics of eusocial insects: the costs of a vertebrateâ€like effective population size. Journal of Evolutionary Biology, 2014, 27, 593-603. | 1.7 | 89 |
| 36 | A new perspective on isochore evolution. Gene, 2006, 385, 71-74. | 2.2 | 88 |

| # | Article | IF | CITATIONS |
|----|--|-----------|-----------------|
| 37 | Incomplete Lineage Sorting in Mammalian Phylogenomics. Systematic Biology, 2017, 66, syw082. | 5.6 | 88 |
| 38 | The Covariation Between TpA Deficiency, CpG Deficiency, and G+C Content of Human Isochores Is Due to a Mathematical Artifact. Molecular Biology and Evolution, 2000, 17, 1620-1625. | 8.9 | 77 |
| 39 | OrthoMaM v8: A Database of Orthologous Exons and Coding Sequences for Comparative Genomics in Mammals. Molecular Biology and Evolution, 2014, 31, 1923-1928. | 8.9 | 77 |
| 40 | Life History Traits, Protein Evolution, and the Nearly Neutral Theory in Amniotes. Molecular Biology and Evolution, 2016, 33, 1517-1527. | 8.9 | 75 |
| 41 | A Model of Horizontal Gene Transfer and the Bacterial Phylogeny Problem. Systematic Biology, 2007, 56, 633-642. | 5.6 | 73 |
| 42 | Evidence for Widespread Positive and Purifying Selection Across the European Rabbit (Oryctolagus) Tj ETQq0 0 | 0 rgBT /O | verlock 10 Tf 5 |
| 43 | Biased Gene Conversion and GC-Content Evolution in the Coding Sequences of Reptiles and Vertebrates. Genome Biology and Evolution, 2015, 7, 240-250. | 2.5 | 67 |
| 44 | The Decline of Isochores in Mammals: An Assessment of the GC ContentVariation Along the Mammalian Phylogeny. Journal of Molecular Evolution, 2004, 58, 653-660. | 1.8 | 63 |
| 45 | Dating cryptodiran nodes: Origin and diversification of the turtle superfamily Testudinoidea. Molecular Phylogenetics and Evolution, 2012, 62, 496-507. | 2.7 | 63 |
| 46 | Consequences of Asexuality in Natural Populations: Insights from Stick Insects. Molecular Biology and Evolution, 2018, 35, 1668-1677. | 8.9 | 63 |
| 47 | An Evolutionary Genome Scan for Longevity-Related Natural Selection in Mammals. Molecular Biology and Evolution, 2010, 27, 840-847. | 8.9 | 62 |
| 48 | Delineating species in the speciation continuum: A proposal. Evolutionary Applications, 2019, 12, 657-663. | 3.1 | 61 |
| 49 | Sex chromosomes: how X-Y recombination stops. Current Biology, 2003, 13, R641-R643. | 3.9 | 59 |
| 50 | Population genomics of sexual and asexual lineages in fissiparous ribbon worms (Lineus, Nemertea): hybridization, polyploidy and the Meselson effect. Molecular Ecology, 2016, 25, 3356-3369. | 3.9 | 58 |
| 51 | COMPLEXITY, PLEIOTROPY, AND THE FITNESS EFFECT OF MUTATIONS. Evolution; International Journal of Organic Evolution, 2011, 65, 1559-1571. | 2.3 | 57 |
| 52 | Efficient Selection of Branch-Specific Models of Sequence Evolution. Molecular Biology and Evolution, 2012, 29, 1861-1874. | 8.9 | 56 |
| 53 | Genomic Evidence for Large, Long-Lived Ancestors to Placental Mammals. Molecular Biology and Evolution, 2013, 30, 5-13. | 8.9 | 56 |
| 54 | GC-Biased Segregation of Noncoding Polymorphisms in Drosophila. Genetics, 2006, 172, 221-228. | 2.9 | 55 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | ls adaptation limited by mutation? A timescale-dependent effect of genetic diversity on the adaptive substitution rate in animals. PLoS Genetics, 2020, 16, e1008668. | 3.5 | 55 |
| 56 | Molecular Evolution of Freshwater Snails with Contrasting Mating Systems. Molecular Biology and Evolution, 2015, 32, 2403-2416. | 8.9 | 54 |
| 57 | GC-Biased Gene Conversion Impacts Ribosomal DNA Evolution in Vertebrates, Angiosperms, and Other Eukaryotes. Molecular Biology and Evolution, 2011, 28, 2561-2575. | 8.9 | 53 |
| 58 | The Rate of Molecular Adaptation in a Changing Environment. Molecular Biology and Evolution, 2013, 30, 1292-1301. | 8.9 | 51 |
| 59 | Genome Evolution in Outcrossing vs. Selfing vs. Asexual Species. Methods in Molecular Biology, 2019, 1910, 331-369. | 0.9 | 51 |
| 60 | Fast and Robust Characterization of Time-Heterogeneous Sequence Evolutionary Processes Using Substitution Mapping. PLoS ONE, 2012, 7, e33852. | 2.5 | 47 |
| 61 | Isochore Evolution in Mammals: A Human-Like Ancestral Structure. Genetics, 1998, 150, 1577-1584. | 2.9 | 45 |
| 62 | Overestimation of the adaptive substitution rate in fluctuating populations. Biology Letters, 2018, 14, 20180055. | 2.3 | 44 |
| 63 | Title is missing!. Conservation Genetics, 2000, 1, 299-308. | 1.5 | 43 |
| 64 | Influence of Recombination and GC-biased Gene Conversion on the Adaptive and Nonadaptive Substitution Rate in Mammals versus Birds. Molecular Biology and Evolution, 2019, 36, 458-471. | 8.9 | 41 |
| 65 | Accelerated Evolutionary Rate of Housekeeping Genes in Tunicates. Journal of Molecular Evolution, 2010, 71, 153-167. | 1.8 | 40 |
| 66 | How Much Does <i>Ne</i> Vary Among Species?. Genetics, 2020, 216, 559-572. | 2.9 | 38 |
| 67 | Recombination, GC-content and the human pseudoautosomal boundary paradox. Trends in Genetics, 2004, 20, 347-349. | 6.7 | 36 |
| 68 | Inverse relationship between longevity and evolutionary rate of mitochondrial proteins in mammals and birds. Mitochondrion, 2009, 9, 51-57. | 3.4 | 36 |
| 69 | Population genomics of the endangered giant Galápagos tortoise. Genome Biology, 2013, 14, R136. | 9.6 | 32 |
| 70 | Illumina Library Preparation for Sequencing the GC-Rich Fraction of Heterogeneous Genomic DNA. Genome Biology and Evolution, 2018, 10, 616-622. | 2.5 | 32 |
| 71 | DILS: Demographic inferences with linked selection by using ABC. Molecular Ecology Resources, 2021, 21, 2629-2644. | 4.8 | 32 |
| 72 | Purging of deleterious burden in the endangered Iberian lynx. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2110614119. | 7.1 | 32 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Hemizygosity Enhances Purifying Selection: Lack of Fast-Z Evolution in Two Satyrine Butterflies. Genome Biology and Evolution, 2016, 8, 3108-3119. | 2.5 | 31 |
| 74 | Sexually dimorphic gene expression and transcriptome evolution provide mixed evidence for a fastâ€Z effect in <i>Heliconius</i> . Journal of Evolutionary Biology, 2019, 32, 194-204. | 1.7 | 31 |
| 75 | Evolutionary Modeling of Rate Shifts Reveals Specificity Determinants in HIV-1 Subtypes. PLoS Computational Biology, 2008, 4, e1000214. | 3.2 | 30 |
| 76 | Comment on "Human-Specific Gain of Function in a Developmental Enhancer". Science, 2009, 323, 714-714. | 12.6 | 30 |
| 77 | Sampling Properties of the Bootstrap Support in Molecular Phylogeny: Influence of Nonindependence Among Sites. Systematic Biology, 2004, 53, 38-46. | 5.6 | 29 |
| 78 | Convergent consequences of parthenogenesis on stick insect genomes. Science Advances, 2022, 8, eabg3842. | 10.3 | 27 |
| 79 | Prevalence and Implications of Contamination in Public Genomic Resources: A Case Study of 43 Reference Arthropod Assemblies. G3: Genes, Genomes, Genetics, 2020, 10, 721-730. | 1.8 | 25 |
| 80 | RNA extraction from sauropsids blood: evaluation and improvement of methods. Amphibia - Reptilia, 2011, 32, 136-139. | 0.5 | 24 |
| 81 | Haplotype divergence supports long-term asexuality in the oribatid mite <i>Oppiella nova</i> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 23 |
| 82 | BAGE genes generated by juxtacentromeric reshuffling in the hominidae lineage are under selective pressure. Genomics, 2003, 81, 391-399. | 2.9 | 21 |
| 83 | Apparent longevity-related adaptation of mitochondrial amino acid content is due to nucleotide compositional shifts. Mitochondrion, 2010, 10, 540-547. | 3.4 | 18 |
| 84 | A replicated climate change field experiment reveals rapid evolutionary response in an ecologically important soil invertebrate. Global Change Biology, 2016, 22, 2370-2379. | 9.5 | 15 |
| 85 | The influence of demography, population structure and selection on molecular diversity in the selfing freshwater snail Biomphalaria pfeifferi. Genetical Research, 2003, 81, 193-204. | 0.9 | 14 |
| 86 | Comparative Analysis of Transcriptomes from Secondary Reproductives of Three Reticulitermes Termite Species. PLoS ONE, 2015, 10, e0145596. | 2.5 | 14 |
| 87 | A New Method for Locating Changes in a Tree Reveals Distinct Nucleotide Polymorphism vs Divergence Patterns in Mouse Mitochondrial Control Region. Journal of Molecular Evolution, 2000, 50, 224-231. | 1.8 | 13 |
| 88 | Gene expression, chromosome heterogeneity and the fast-X effect in mammals. Biology Letters, 2015, 11, 20150010. | 2.3 | 12 |
| 89 | Molecular Adaptation in Plant Hemoglobin, a Duplicated GeneInvolved in Plant–Bacteria Symbiosis. Journal of Molecular Evolution, 2004, 59, 416-425. | 1.8 | 9 |
| 90 | The Multilocus Multispecies Coalescent: A Flexible New Model of Gene Family Evolution. Systematic Biology, 2021, 70, 822-837. | 5.6 | 9 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | First annotated draft genomes of nonmarine ostracods (Ostracoda, Crustacea) with different reproductive modes. G3: Genes, Genomes, Genetics, 2021, 11, . | 1.8 | 9 |
| 92 | Patterns of Genome-Wide Nucleotide Diversity in the Gynodioecious Plant Thymus vulgaris Are Compatible with Recent Sweeps of Cytoplasmic Genes. Genome Biology and Evolution, 2018, 10, 239-248. | 2.5 | 8 |
| 93 | Fine-scale quantification of GC-biased gene conversion intensity in mammals. , 0, 1, . | | 6 |
| 94 | Detection of F1 Hybrids from Single-genome Data Reveals Frequent Hybridization in Hymenoptera and Particularly Ants. Molecular Biology and Evolution, 2022, 39, . | 8.9 | 2 |
| 95 | Reconstruction of body mass evolution in the Cetartiodactyla and mammals using phylogenomic data. , 0, 1, . | | 1 |
| 96 | Mutation-Driven Evolution. Systematic Biology, 2014, 63, 113-114. | 5.6 | 0 |
| 97 | Lacking conservation genomics in the giant Gal $	ilde{A}_i$ pagos tortoise. , 0, 1, . | | 0 |
| 98 | Title is missing!. , 2020, 16, e1008668. | | 0 |
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