

# Jose Castresana

## List of Publications by Year in descending order

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65  
papers

17,797  
citations

109137

35  
h-index

110170

64  
g-index

67  
all docs

67  
docs citations

67  
times ranked

23239  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Selection of Conserved Blocks from Multiple Alignments for Their Use in Phylogenetic Analysis. <i>Molecular Biology and Evolution</i> , 2000, 17, 540-552.                       | 3.5  | 8,843     |
| 2  | Improvement of Phylogenies after Removing Divergent and Ambiguously Aligned Blocks from Protein Sequence Alignments. <i>Systematic Biology</i> , 2007, 56, 564-577.              | 2.7  | 4,438     |
| 3  | Quantitative studies of the structure of proteins in solution by fourier-transform infrared spectroscopy. <i>Progress in Biophysics and Molecular Biology</i> , 1993, 59, 23-56. | 1.4  | 764       |
| 4  | Phylogenetic and Ecological Analysis of Novel Marine Stramenopiles. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3528-3534.   | 1.4  | 321       |
| 5  | Evolution of cytochrome oxidase, an enzyme older than atmospheric oxygen.. <i>EMBO Journal</i> , 1994, 13, 2516-2525.  | 3.5  | 232       |
| 6  | Cytochrome oxidase evolved by tinkering with denitrification enzymes. <i>FEBS Letters</i> , 1994, 341, 1-4.  | 1.3  | 230       |
| 7  | Evolution of energetic metabolism: the respiration-early hypothesis. <i>Trends in Biochemical Sciences</i> , 1995, 20, 443-448.  | 3.7  | 195       |
| 8  | Nitric oxide reductases in bacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1459, 266-273.   | 0.5  | 172       |
| 9  | Inverse Relationship Between Evolutionary Rate and Age of Mammalian Genes. <i>Molecular Biology and Evolution</i> , 2005, 22, 598-606.   | 3.5  | 152       |
| 10 | Does Vav bind to F-actin through a CH domain?. <i>FEBS Letters</i> , 1995, 374, 149-151.   | 1.3  | 135       |
| 11 | Structure and thermal denaturation of crystalline and noncrystalline cytochrome oxidase as studied by infrared spectroscopy. <i>Biochemistry</i> , 1994, 33, 11650-11655.        | 1.2  | 132       |
| 12 | Is mammalian chromosomal evolution driven by regions of genome fragility?. <i>Genome Biology</i> , 2006, 7, R115.  | 13.9 | 130       |
| 13 | New Archaeobacterial Genes Coding for Redox Proteins: Implications for the Evolution of Aerobic Metabolism. <i>Journal of Molecular Biology</i> , 1995, 250, 202-210.            | 2.0  | 108       |
| 14 | Cytochrome b Phylogeny and the Taxonomy of Great Apes and Mammals. <i>Molecular Biology and Evolution</i> , 2001, 18, 465-471.   | 3.5  | 99        |
| 15 | A Second Terminal Oxidase in <i>Sulfolobus acidocaldarius</i> . <i>FEBS Journal</i> , 1994, 224, 151-159.  | 0.2  | 95        |
| 16 | The K tree score: quantification of differences in the relative branch length and topology of phylogenetic trees. <i>Bioinformatics</i> , 2007, 23, 2954-2956.                   | 1.8  | 93        |
| 17 | The Mitochondrial Genome of the Hemichordate <i>Balanoglossus carnosus</i> and the Evolution of Deuterostome Mitochondria. <i>Genetics</i> , 1998, 150, 1115-1123.               | 1.2  | 90        |
| 18 | On homology searches by protein Blast and the characterization of the age of genes. <i>BMC Evolutionary Biology</i> , 2007, 7, 53.   | 3.2  | 86        |

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|----|---|-----|-----------|
| 19 | Codon reassignment and amino acid composition in hemichordate mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3703-3707.               | 3.3 | 80        |
| 20 | A Role for Cholesterol as a Structural Effector of the Nicotinic Acetylcholine Receptor. Biochemistry, 1994, 33, 4065-4071.   | 1.2 | 72        |
| 21 | Topological variation in single-gene phylogenetic trees. Genome Biology, 2007, 8, 216.  | 3.8 | 71        |
| 22 | Evolution of the spectrin repeat. BioEssays, 1997, 19, 811-817.   | 1.2 | 69        |
| 23 | Respiratory Chains in the Last Common Ancestor of Living Organisms. Journal of Molecular Evolution, 1999, 49, 453-460.  | 0.8 | 66        |
| 24 | Molecular dating of caprines using ancient DNA sequences of Myotragus balearicus, an extinct endemic Balearic mammal. BMC Evolutionary Biology, 2005, 5, 70.                                    | 3.2 | 66        |
| 25 | A Molecular Phylogeny of Two Extinct Sloths. Molecular Phylogenetics and Evolution, 2001, 18, 94-103.   | 1.2 | 63        |
| 26 | Distribution and evolutionary trends of photoprotective isoprenoids (xanthophylls and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,462 Td (to  | 2.6 | 56        |
| 27 | Diversification rates and the latitudinal gradient of diversity in mammals. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4148-4155.                                      | 1.2 | 53        |
| 28 | An infrared spectroscopic study of $\hat{1}^2$ -galactosidase structure in aqueous solutions. FEBS Letters, 1989, 252, 118-120.   | 1.3 | 52        |
| 29 | Comparative genomics and bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1506, 147-162.   | 0.5 | 51        |
| 30 | Genes on human chromosome 19 show extreme divergence from the mouse orthologs and a high GC content. Nucleic Acids Research, 2002, 30, 1751-1756.   | 6.5 | 50        |
| 31 | Orcokinin in insects and other invertebrates. Insect Biochemistry and Molecular Biology, 2004, 34, 1141-1146.   | 1.2 | 48        |
| 32 | Protein stability and interaction of the nicotinic acetylcholine receptor with cholinergic ligands studied by Fourier-transform infrared spectroscopy. Biochemical Journal, 1992, 288, 421-426. | 1.7 | 44        |
| 33 | Novel intron markers to study the phylogeny of closely related mammalian species. BMC Evolutionary Biology, 2010, 10, 369.  | 3.2 | 43        |
| 34 | Partial dehydration of phosphatidylethanolamine phosphate groups during hexagonal phase formation, as seen by i.r. spectroscopy. Biochemical Journal, 1992, 282, 467-470.                       | 1.7 | 40        |
| 35 | A hominoid-specific nuclear insertion of the mitochondrial D-loop: implications for reconstructing ancestral mitochondrial sequences. Molecular Biology and Evolution, 1998, 15, 463-469.       | 3.5 | 40        |
| 36 | Impact of Deep Coalescence on the Reliability of Species Tree Inference from Different Types of DNA Markers in Mammals. PLoS ONE, 2012, 7, e30239.  | 1.1 | 35        |

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|----|--|------|-----------|
| 37 | The structure of proteins in aqueous solutions: An assessment of triose phosphate isomerase structure by fourier-transform infrared spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1988, 152, 69-75. | 1.0  | 34        |
| 38 | Phylogeography and postglacial expansion of the endangered semi-aquatic mammal <i>Galemys pyrenaicus</i> . <i>BMC Evolutionary Biology</i> , 2013, 13, 115.  | 3.2  | 33        |
| 39 | Using relatedness networks to infer contemporary dispersal: Application to the endangered mammal <i>Galemys pyrenaicus</i> . <i>Molecular Ecology</i> , 2017, 26, 3343-3357.   | 2.0  | 30        |
| 40 | Paleogenomics in a Temperate Environment: Shotgun Sequencing from an Extinct Mediterranean Caprine. <i>PLoS ONE</i> , 2009, 4, e5670.  | 1.1  | 30        |
| 41 | Phylogenetic position of <i>Salinibacter ruber</i> based on concatenated protein alignments. <i>Systematic and Applied Microbiology</i> , 2007, 30, 171-179.   | 1.2  | 29        |
| 42 | Quantitative analysis of connectivity in populations of a semi-aquatic mammal using kinship categories and network assortativity. <i>Molecular Ecology Resources</i> , 2019, 19, 310-326.  | 2.2  | 29        |
| 43 | Protein structural effects of agonist binding to the nicotinic acetylcholine receptor. <i>FEBS Letters</i> , 1992, 314, 171-175.   | 1.3  | 27        |
| 44 | Estimation of genetic distances from human and mouse introns. <i>Genome Biology</i> , 2002, 3, research0028.1.   | 13.9 | 23        |
| 45 | The physical state of ubiquinone-10, in pure form and incorporated into phospholipid bilayers. A Fourier-transform infrared spectroscopic study. <i>FEBS Journal</i> , 1992, 204, 1125-1130.                                     | 0.2  | 22        |
| 46 | A pipeline for metabarcoding and diet analysis from fecal samples developed for a small semi-aquatic mammal. <i>PLoS ONE</i> , 2018, 13, e0201763.   | 1.1  | 22        |
| 47 | Multilocus species trees and species delimitation in a temporal context: application to the water shrews of the genus <i>Neomys</i> . <i>BMC Evolutionary Biology</i> , 2015, 15, 209.   | 3.2  | 21        |
| 48 | Estimation of Phylogenetic Inconsistencies in the Three Domains of Life. <i>Molecular Biology and Evolution</i> , 2008, 25, 2319-2329.   | 3.5  | 18        |
| 49 | Clustering of Genes Coding for DNA Binding Proteins in a Region of Atypical Evolution of the Human Genome. <i>Journal of Molecular Evolution</i> , 2004, 59, 72-9.   | 0.8  | 17        |
| 50 | The cDNA for leucomyosuppressin in <i>Blattella germanica</i> and molecular evolution of insect myosuppressins. <i>Peptides</i> , 2004, 25, 1883-1889.   | 1.2  | 16        |
| 51 | Genomic diversity and geographical structure of the Pyrenean desman. <i>Conservation Genetics</i> , 2016, 17, 1333-1344.   | 0.8  | 15        |
| 52 | An infrared spectroscopic study of specifically deuterated fatty-acyl methyl groups in phosphatidylcholine liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1065, 29-34.                                   | 1.4  | 14        |
| 53 | Role of cholesterol as a structural and functional effector of the nicotinic acetylcholine receptor. <i>Biochemical Society Transactions</i> , 1994, 22, 776-780.  | 1.6  | 13        |
| 54 | The genome of the Pyrenean desman and the effects of bottlenecks and inbreeding on the genomic landscape of an endangered species. <i>Evolutionary Applications</i> , 2021, 14, 1898-1913.                                       | 1.5  | 11        |

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|----|---|-----|-----------|
| 55 | Spatial mixing of mitochondrial lineages and greater genetic diversity in some invasive populations of the American mink ( <i>Neovison vison</i> ) compared to native populations. <i>Biological Invasions</i> , 2017, 19, 2663-2673. | 1.2 | 10        |
| 56 | The lamellar to hexagonal phase transition in phosphatidylethanolamine liposomes: A fluorescence anisotropy study. <i>Biochemical and Biophysical Research Communications</i> , 1990, 168, 987-992.                                   | 1.0 | 9         |
| 57 | Postglacial dispersal patterns and mitochondrial genetic structure of the Pyrenean desman ( <i>Galemys pyrenaicus</i> ) in the northwestern region of the Iberian Peninsula. <i>Ecology and Evolution</i> , 2017, 7, 4486-4495.       | 0.8 | 9         |
| 58 | Evolutionary history of the endemic water shrew <i>Neomys anomalus</i> : Recurrent phylogeographic patterns in semi-aquatic mammals of the Iberian Peninsula. <i>Ecology and Evolution</i> , 2018, 8, 10138-10146.                    | 0.8 | 9         |
| 59 | Divergence time estimation using ddRAD data and an isolation-with-migration model applied to water vole populations of <i>Arvicola</i> . <i>Scientific Reports</i> , 2022, 12, 4065.  | 1.6 | 9         |
| 60 | Patterns of mammalian diversification in recent evolutionary times: global tendencies and methodological issues. <i>Journal of Evolutionary Biology</i> , 2011, 24, 2611-2623.  | 0.8 | 8         |
| 61 | Development of Rapidly Evolving Intron Markers to Estimate Multilocus Species Trees of Rodents. <i>PLoS ONE</i> , 2014, 9, e96032.  | 1.1 | 8         |
| 62 | Solubilization of sarcoplasmic reticulum membranes by sodium dodecylsulphate. <i>FEBS Letters</i> , 1990, 269, 324-327.   | 1.3 | 5         |
| 63 | Accelerated Evolution of Genes of Recent Origin. , 2008, , 45-59.   |     | 4         |
| 64 | Interaction of SDS with Î²-galactosidase. A FT-IR study of the influence of detergent concentration and temperature.. <i>Journal of Molecular Structure</i> , 1988, 175, 67-72.   | 1.8 | 3         |
| 65 | Size increase without genetic divergence in the Eurasian water shrew <i>Neomys fodiens</i> . <i>Scientific Reports</i> , 2019, 9, 17375.  | 1.6 | 3         |