

# Jos Pereira-Leal

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3885513/jose-pereira-leal-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

4,945  
citations

31  
h-index

65  
g-index

65  
ext. papers

5,623  
ext. citations

7.2  
avg. IF

5.54  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 59 | Evolution of the Rab family of small GTP-binding proteins. <i>Journal of Molecular Biology</i> , <b>2001</b> , 313, 889-901  | 33.3 | 626       |
| 58 | Comparative genomics of trypanosomatid parasitic protozoa. <i>Science</i> , <b>2005</b> , 309, 404-9   | 33.3 | 614       |
| 57 | The mammalian Rab family of small GTPases: definition of family and subfamily sequence motifs suggests a mechanism for functional specificity in the Ras superfamily. <i>Journal of Molecular Biology</i> , <b>2000</b> , 301, 1077-87 | 6.5  | 375       |
| 56 | Detection of functional modules from protein interaction networks. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 54, 49-57   | 4.2  | 288       |
| 55 | Evolution: Tracing the origins of centrioles, cilia, and flagella. <i>Journal of Cell Biology</i> , <b>2011</b> , 194, 165-75  | 7.3  | 257       |
| 54 | 3D complex: a structural classification of protein complexes. <i>PLoS Computational Biology</i> , <b>2006</b> , 2, e155  | 5    | 256       |
| 53 | Stepwise evolution of the centriole-assembly pathway. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 1414-26  | 5.3  | 164       |
| 52 | The vertebrate Hef ortholog is a component of the Fanconi anemia tumor-suppressor pathway. <i>Nature Structural and Molecular Biology</i> , <b>2005</b> , 12, 763-71   | 17.6 | 163       |
| 51 | Evolution of protein complexes by duplication of homomeric interactions. <i>Genome Biology</i> , <b>2007</b> , 8, R51  | 18.3 | 139       |
| 50 | Thousands of rab GTPases for the cell biologist. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002217   | 5    | 136       |
| 49 | Prenylation of Rab GTPases: molecular mechanisms and involvement in genetic disease. <i>FEBS Letters</i> , <b>2001</b> , 498, 197-200  | 3.8  | 132       |
| 48 | The relationship between domain duplication and recombination. <i>Journal of Molecular Biology</i> , <b>2005</b> , 346, 355-65   | 6.5  | 131       |
| 47 | Genome evolution reveals biochemical networks and functional modules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 15428-33   | 11.5 | 123       |
| 46 | The superfamily of heme-copper oxygen reductases: types and evolutionary considerations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 629-37   | 4.6  | 121       |
| 45 | The origins and evolution of functional modules: lessons from protein complexes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2006</b> , 361, 507-17   | 5.8  | 113       |
| 44 | Evolution of intracellular compartmentalization. <i>Biochemical Journal</i> , <b>2013</b> , 449, 319-31  | 3.8  | 98        |
| 43 | Evolution and dynamics of protein interactions and networks. <i>Current Opinion in Structural Biology</i> , <b>2008</b> , 18, 349-57   | 8.1  | 93        |

|    |  |      |    |
|----|--|------|----|
| 42 | Mechanisms underlying the dual-mode regulation of microtubule dynamics by Kip3/kinesin-8. <i>Molecular Cell</i> , <b>2011</b> , 43, 751-63   | 17.6 | 91 |
| 41 | A genomic signature and the identification of new sporulation genes. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 2101-15   | 3.5  | 83 |
| 40 | Aurora at the pole and equator: overlapping functions of Aurora kinases in the mitotic spindle. <i>Open Biology</i> , <b>2013</b> , 3, 120185  | 7    | 77 |
| 39 | Evolutionary cell biology: two origins, one objective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 16990-4           | 11.5 | 75 |
| 38 | Classification schemes for protein structure and function. <i>Nature Reviews Genetics</i> , <b>2003</b> , 4, 508-19  | 30.1 | 74 |
| 37 | Novel specificities emerge by stepwise duplication of functional modules. <i>Genome Research</i> , <b>2005</b> , 15, 552-9   | 9.7  | 70 |
| 36 | The Ypt/Rab family and the evolution of trafficking in fungi. <i>Traffic</i> , <b>2008</b> , 9, 27-38  | 5.7  | 56 |
| 35 | Functional evolution of the yeast protein interaction network. <i>Molecular Biology and Evolution</i> , <b>2004</b> , 21, 1171-6   | 8.3  | 56 |
| 34 | Staphylococcus aureus Survives with a Minimal Peptidoglycan Synthesis Machine but Sacrifices Virulence and Antibiotic Resistance. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004891 | 7.6  | 55 |
| 33 | Loss of genetic redundancy in reductive genome evolution. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1001032  | 9.2  | 47 |
| 32 | An exponential core in the heart of the yeast protein interaction network. <i>Molecular Biology and Evolution</i> , <b>2005</b> , 22, 421-5  | 8.3  | 44 |
| 31 | A bioinformatics classifier and database for heme-copper oxygen reductases. <i>PLoS ONE</i> , <b>2011</b> , 6, e191173   | 7.7  | 40 |
| 30 | Centrosome amplification arises before neoplasia and increases upon p53 loss in tumorigenesis. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 2353-2363                         | 7.3  | 36 |
| 29 | A comprehensive assessment of the transcriptome of cork oak ( <i>Quercus suber</i> ) through EST sequencing. <i>BMC Genomics</i> , <b>2014</b> , 15, 371                             | 4.5  | 31 |
| 28 | Genetic Competence Drives Genome Diversity in <i>Bacillus subtilis</i> . <i>Genome Biology and Evolution</i> , <b>2018</b> , 10, 108-124   | 3.9  | 29 |
| 27 | Single choroideremia gene in nonmammalian vertebrates explains early embryonic lethality of the zebrafish model of choroideremia <b>2009</b> , 50, 3009-16                           |      | 28 |
| 26 | Beyond 100 genomes. <i>Genome Biology</i> , <b>2003</b> , 4, 402   | 18.3 | 19 |
| 25 | Are There Rab GTPases in Archaea?. <i>Molecular Biology and Evolution</i> , <b>2016</b> , 33, 1833-42  | 8.3  | 18 |

|    |   |      |    |
|----|---|------|----|
| 24 | SNP typing reveals similarity in Mycobacterium tuberculosis genetic diversity between Portugal and Northeast Brazil. <i>Infection, Genetics and Evolution</i> , <b>2013</b> , 18, 238-46                      | 4.5  | 17 |
| 23 | Multiple domain insertions and losses in the evolution of the Rab prenylation complex. <i>BMC Evolutionary Biology</i> , <b>2007</b> , 7, 140   | 3    | 17 |
| 22 | Structural determinants of Rab and Rab Escort Protein interaction: Rab family motifs define a conserved binding surface. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 301, 92-7 | 3.4  | 17 |
| 21 | Evolutionary patterns in coiled-coils. <i>Genome Biology and Evolution</i> , <b>2015</b> , 7, 545-56  | 3.9  | 15 |
| 20 | Genome of a Gut Strain of Bacillus subtilis. <i>Genome Announcements</i> , <b>2013</b> , 1,   |      | 15 |
| 19 | Pericentrin-mediated SAS-6 recruitment promotes centriole assembly. <i>ELife</i> , <b>2019</b> , 8,   | 8.9  | 15 |
| 18 | A novel cyanobacterial geosmin producer, revising GeoA distribution and dispersion patterns in Bacteria. <i>Scientific Reports</i> , <b>2020</b> , 10, 8679   | 4.9  | 11 |
| 17 | Diversity and Composition of Pelagic Prokaryotic and Protist Communities in a Thin Arctic Sea-Ice Regime. <i>Microbial Ecology</i> , <b>2019</b> , 78, 388-408  | 4.4  | 11 |
| 16 | Coiled-coil length: Size does matter. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2015</b> , 83, 2162-9  | 4.2  | 9  |
| 15 | Bioinformatics projects supporting life-sciences learning in high schools. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003404   | 5    | 8  |
| 14 | inTB - a data integration platform for molecular and clinical epidemiological analysis of tuberculosis. <i>BMC Bioinformatics</i> , <b>2013</b> , 14, 264   | 3.6  | 7  |
| 13 | Disulfiram, an alcohol dependence therapy, can inhibit the in vitro growth of Francisella tularensis. <i>International Journal of Antimicrobial Agents</i> , <b>2019</b> , 54, 85-88                          | 14.3 | 6  |
| 12 | Collective electrical oscillations of a diatom population induced by dark stress. <i>Scientific Reports</i> , <b>2018</b> , 8, 5484   | 4.9  | 6  |
| 11 | Microbial Diversity and Toxin Risk in Tropical Freshwater Reservoirs of Cape Verde. <i>Toxins</i> , <b>2018</b> , 10,   | 4.9  | 5  |
| 10 | CYR61 and TAZ Upregulation and Focal Epithelial to Mesenchymal Transition May Be Early Predictors of Barrett's Esophagus Malignant Progression. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161967                  | 3.7  | 5  |
| 9  | A Pilot Study on the Metabolic Impact of Mediterranean Diet in Type 2 Diabetes: Is Gut Microbiota the Key?. <i>Nutrients</i> , <b>2021</b> , 13,  | 6.7  | 5  |
| 8  | RAG Recombinase as a Selective Pressure for Genome Evolution. <i>Genome Biology and Evolution</i> , <b>2016</b> , 8, 3364-3376  | 3.9  | 4  |
| 7  | Rabifier2: an improved bioinformatic classifier of Rab GTPases. <i>Bioinformatics</i> , <b>2017</b> , 33, 568-570   | 7.2  | 3  |

|   |   |     |   |
|---|---|-----|---|
| 6 | Does Hypoxic Response Mediate Primary Resistance to Sunitinib in Untreated Locally Advanced Breast Cancer?. <i>Current Cancer Drug Targets</i> , <b>2017</b> , 17, 62-73                  | 2.8 | 3 |
| 5 | Hope for GWAS: relevant risk genes uncovered from GWAS statistical noise. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 17601-21                                 | 6.3 | 2 |
| 4 | An ancestral role of pericentrin in centriole formation through SAS-6 recruitment   |     | 2 |
| 3 | Analysis and preparation of stable complexes between Rab GTPases, Rab escort protein, and Rab geranylgeranyl transferase. <i>Methods in Molecular Biology</i> , <b>2002</b> , 189, 157-65 | 1.4 | 1 |
| 2 | Bioinformatic approaches to identifying and classifying Rab proteins. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1298, 17-28   | 1.4 | 1 |
| 1 | MAIS-TB: An Integrated Web Tool for Molecular Epidemiology Analysis. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 183-185   | 0.9 |   |