Jose Luis Revuelta

List of Publications by Year
in descending order

82 papers	20,069 citations	126907 33 h-index	60623 81 g-index
87 all docs	87 docs citations	87 times ranked	31175 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Functional profiling of the Saccharomyces cerevisiae genome. Nature, 2002, 418, 387-391.	27.8	3,938
3	Functional Characterization of the S. cerevisiae Genome by Gene Deletion and Parallel Analysis. Science, 1999, 285, 901-906.	12.6	3,761
4	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
5	The genome sequence of Schizosaccharomyces pombe. Nature, 2002, 415, 871-880.	27.8	1,508
6	Complete DNA sequence of yeast chromosome XI. Nature, 1994, 369, 371-378.	27.8	382
7	K+ channel interactions detected by a genetic system optimized for systematic studies of membrane protein interactions. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12242-12247.	7.1	293
8	Biotechnology of riboflavin. Applied Microbiology and Biotechnology, 2016, 100, 2107-2119.	3.6	123
9	Metabolic Engineering of the Purine Pathway for Riboflavin Production in Ashbya gossypii. Applied and Environmental Microbiology, 2005, 71, 5743-5751.	3.1	106
10	Bioproduction of riboflavin: a bright yellow history. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 659-665.	3.0	90
11	Genome-Wide Analysis of Factors Affecting Transcription Elongation and DNA Repair: A New Role for PAF and Ccr4-Not in Transcription-Coupled Repair. PLoS Genetics, 2009, 5, e1000364.	3.5	81
12	Early Transcriptional Defense Responses in Arabidopsis Cell Suspension Culture under High-Light Conditions Â Â Â. Plant Physiology, 2011, 156, 1439-1456.	4.8	81
13	Phosphoribosyl pyrophosphate synthetase activity affects growth and riboflavin production in Ashbya gossypii. BMC Biotechnology, 2008, 8, 67.	3.3	72
14	Transformation of Phycomyces blakesleeanus to G-418 resistance by an autonomously replicating plasmid.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 7344-7347.	7.1	68
15	Guanine nucleotide binding to the Bateman domain mediates the allosteric inhibition of eukaryotic IMP dehydrogenases. Nature Communications, 2015, 6, 8923.	12.8	63
16	Molecular Characterization of FMN1, the Structural Gene for the Monofunctional Flavokinase of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2000, 275, 28618-28624.	3.4	61
17	The 1.49Å... Resolution Crystal Structure of PsbQ from Photosystem II of Spinacia oleracea Reveals a PPII Structure in the N-terminal Region. Journal of Molecular Biology, 2005, 350, 1051-1060.	4.2	60
18	Purine Biosynthesis, Riboflavin Production, and Trophic-Phase Span Are Controlled by a Myb-Related Transcription Factor in the Fungus Ashbya gossypii. Applied and Environmental Microbiology, 2006, 72, 5052-5060.	3.1	60

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19	Physiological Consequence of Disruption of the VMA1Gene in the Riboflavin Overproducer Ashbya gossypii. Journal of Biological Chemistry, 1999, 274, 9442-9448.	3.4	58
20	Genomic profiling of fungal cell wall-interfering compounds: identification of a common gene signature. BMC Genomics, 2015, 16, 683.	2.8	54
21	Riboflavin, overproduced during sporulation of Ashbya gossypii, protects its hyaline spores against ultraviolet light. Environmental Microbiology, 2001, 3, 545-550.	3.8	52
22	The Saccharomyces cerevisiae RIB4 Gene Codes for 6,7-Dimethyl- 8-ribityllumazine Synthase Involved in Riboflavin Biosynthesis. Journal of Biological Chemistry, 1995, 270, 23801-23807.	3.4	44
23	Mitochondria and lipid raft-located FOF1-ATP synthase as major therapeutic targets in the antileishmanial and anticancer activities of ether lipid edelfosine. PLoS Neglected Tropical Diseases, 2017, 11, e0005805.	3.0	44
24	Formation of folates by microorganisms: towards the biotechnological production of this vitamin. Applied Microbiology and Biotechnology, 2018, 102, 8613-8620.	3.6	44
25	Isocitrate lyase ofAshbya gossypii- transcriptional regulation and peroxisomal localization. FEBS Letters, 1999, 444, 15-21.	2.8	43
26	Uncovering Arabidopsis Membrane Protein Interactome Enriched in Transporters Using Mating-Based Split Ubiquitin Assays and Classification Models. Frontiers in Plant Science, 2012, 3, 124.	3.6	42
27	Metabolic engineering of riboflavin production in Ashbya gossypii through pathway optimization. Microbial Cell Factories, 2015, 14, 163.	4.0	42
28	Disruption of the SHM2 gene, encoding one of two serine hydroxymethyltransferase isoenzymes, reduces the flux from glycine to serine in Ashbya gossypii. Biochemical Journal, 2003, 369, 263-273.	3.7	41
29	Drug Uptake, Lipid Rafts, and Vesicle Trafficking Modulate Resistance to an Anticancer Lysophosphatidylcholine Analogue in Yeast. Journal of Biological Chemistry, 2013, 288, 8405-8418.	3.4	41
30	Programmed cell death activated by Rose Bengal in Arabidopsis thaliana cell suspension cultures requires functional chloroplasts. Journal of Experimental Botany, 2014, 65, 3081-3095.	4.8	41
31	Riboflavin Biosynthesis in Saccharomyces cerevisiae. Journal of Biological Chemistry, 1995, 270, 437-444.	3.4	40
32	Microbial biotechnology for the synthesis of (pro)vitamins, biopigments and antioxidants: challenges and opportunities. Microbial Biotechnology, 2016, 9, 564-567.	4.2	39
33	A nucleotide-controlled conformational switch modulates the activity of eukaryotic IMP dehydrogenases. Scientific Reports, 2017, 7, 2648.	3.3	36
34	A Nucleotide-Dependent Conformational Switch Controls the Polymerization of Human IMP Dehydrogenases to Modulate their Catalytic Activity. Journal of Molecular Biology, 2019, 431, 956-969.	4.2	36
35	Genome scale metabolic modeling of the riboflavin overproducer <i>Ashbya gossypii</i>. Biotechnology and Bioengineering, 2014, 111, 1191-1199.	3.3	35
36	Folic Acid Production by Engineered Ashbya gossypii. Metabolic Engineering, 2016, 38, 473-482.	7.0	35

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37	Increased production of inosine and guanosine by means of metabolic engineering of the purine pathway in Ashbya gossypii. Microbial Cell Factories, 2015, 14, 58.	4.0	34
38	Biotechnological production of feed nucleotides by microbial strain improvement. Process Biochemistry, 2013, 48, 1263-1270.	3.7	31
39	Increased riboflavin production by manipulation of inosine 5â€²-monophosphate dehydrogenase in Ashbya gossypii. Applied Microbiology and Biotechnology, 2015, 99, 9577-9589.	3.6	31
40	A genome-wide transcription analysis of a fungal riboflavin overproducer. Journal of Biotechnology, 2004, 113, 69-76.	3.8	29
41	Strain Design of Ashbya gossypii for Single-Cell Oil Production. Applied and Environmental Microbiology, 2014, 80, 1237-1244.	3.1	29
42	Structural organization of the TRP1 gene of Phycomyces blakesleeanus: implications for evolutionary gene fusion in fungi. Gene, 1988, 71, 85-95.	2.2	28
43	A Chemogenomic Screening of Sulfanilamide-Hypersensitive <i>Saccharomyces cerevisiae</i> Mutants Uncovers <i>ABZ2</i> , the Gene Encoding a Fungal Aminodeoxychorismate Lyase. Eukaryotic Cell, 2007, 6, 2102-2111.	3.4	28
44	A Chemical Genomic Screen in <i>Saccharomyces cerevisiae</i> Reveals a Role for Diphthamidation of Translation Elongation Factor 2 in Inhibition of Protein Synthesis by Sordarin. Antimicrobial Agents and Chemotherapy, 2008, 52, 1623-1629.	3.2	28
45	Carrier-mediated transport of riboflavin in Ashbya gossypii. Applied Microbiology and Biotechnology, 2001, 55, 85-89.	3.6	25
46	A new gene (carC) involved in the regulation of carotenogenesis in Phycomyces. Molecular Genetics and Genomics, 1983, 192, 225-229.	2.4	22
47	Structural Analysis of the PsbQ Protein of Photosystem II by Fourier Transform Infrared and Circular Dichroic Spectroscopy and by Bioinformatic Methodsâ€. Biochemistry, 2003, 42, 1000-1007.	2.5	22
48	Engineering<i>Ashbya gossypii</i>for efficient biolipid production. Bioengineered, 2015, 6, 119-123.	3.2	22
49	Utilization of xylose by engineered strains of Ashbya gossypii for the production of microbial oils. Biotechnology for Biofuels, 2017, 10, 3.	6.2	22
50	Tuning singleâ€cell oil production in <i>Ashbya gossypii</i> by engineering the elongation and desaturation systems. Biotechnology and Bioengineering, 2014, 111, 1782-1791.	3.3	21
51	Microbial lipids from industrial wastes using xylose-utilizing Ashbya gossypii strains. Bioresource Technology, 2019, 293, 122054.	9.6	20
52	Oneâ€vector CRISPR/Cas9 genome engineering of the industrial fungus <i>Ashbya gossypii</i>. Microbial Biotechnology, 2019, 12, 1293-1301.	4.2	20
53	Raman Spectroscopy Adds Complementary Detail to the High-Resolution X-Ray Crystal Structure of Photosynthetic PsbP from Spinacia oleracea. PLoS ONE, 2012, 7, e46694.	2.5	20
54	Multiplex genome editing in Ashbya gossypii using CRISPR-Cpf1. New Biotechnology, 2020, 57, 29-33.	4.4	19

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55	Pathway Grafting for Polyunsaturated Fatty Acids Production in <i>Ashbya gossypii</i> through Golden Gate Rapid Assembly. ACS Synthetic Biology, 2018, 7, 2340-2347.	3.8	18
56	Metabolic engineering of Ashbya gossypii for deciphering the de novo biosynthesis of Î³-lactones. Microbial Cell Factories, 2019, 18, 62.	4.0	17
57	XI. Yeast sequencing reports. The complete sequence of an 18,002 bp segment ofSaccharomyces cerevisiae chromosome XI contains theHBS1,MRP-L20 andPRP16 genes, and six new open reading frames. Yeast, 1994, 10, 231-245.	1.7	16
58	Thetxl1+gene fromSchizosaccharomyces pombeencodes a new thioredoxin-like 1 protein that participates in the antioxidant defence againsttert-butyl hydroperoxide. Yeast, 2007, 24, 481-490.	1.7	16
59	The Bateman domain of IMP dehydrogenase is a binding target for dinucleoside polyphosphates. Journal of Biological Chemistry, 2019, 294, 14768-14775.	3.4	16
60	Human initiator caspases trigger apoptotic and autophagic phenotypes in Saccharomyces cerevisiae. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 561-571.	4.1	15
61	Engineering <i><scp>A</scp>shbya gossypii</i> strains for <i>de novo</i> lipid production using industrial byâ€products. Microbial Biotechnology, 2017, 10, 425-433.	4.2	15
62	A New Member of the Thioredoxin Reductase Family from Early Oxygenic Photosynthetic Organisms. Molecular Plant, 2017, 10, 212-215.	8.3	15
63	The Protein Factor-arrest 11 (Far11) Is Essential for the Toxicity of Human Caspase-10 in Yeast and Participates in the Regulation of Autophagy and the DNA Damage Signaling. Journal of Biological Chemistry, 2012, 287, 29636-29647.	3.4	13
64	Crystallization and preliminary crystallographic characterization of the extrinsic PsbP protein of photosystem II from<i>Spinacia oleracea</i>. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 111-115.	0.7	12
65	Unprecedented pathway of reducing equivalents in a diflavin-linked disulfide oxidoreductase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12725-12730.	7.1	12
66	The biological activity of the wine anthocyanins delphinidin and petunidin is mediated through Msn2 and Msn4 in Saccharomyces cerevisiae. FEMS Yeast Research, 2010, 10, 858-869.	2.3	11
67	Ferredoxin-linked flavoenzyme defines a family of pyridine nucleotide-independent thioredoxin reductases. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12967-12972.	7.1	11
68	A new endemic species of Epipactis (Orchidaceae) from north-east Portugal. Botanical Journal of the Linnean Society, 2004, 145, 239-249.	1.6	10
69	Mapping of theRIB1 andRIB7 genes involved in the biosynthesis of riboflavin inSaccharomyces cerevisiae. Yeast, 1993, 9, 1099-1102.	1.7	9
70	Diversity of mechanisms to control bacterial <scp>GTP</scp> homeostasis by the mutually exclusive binding of adenine and guanine nucleotides to <scp>IMP</scp> dehydrogenase. Protein Science, 2022, 31, e4314.	7.6	9
71	The complete sequence of a 15 820 bp segment ofSaccharomyces cerevisiae chromosome XI contains theUBI2 andMPL1 genes and three new open reading frames. Yeast, 1993, 9, 1349-1354.	1.7	8
72	The filamentous fungus <i>Ashbya gossypii</i> as a competitive industrial inosine producer. Biotechnology and Bioengineering, 2016, 113, 2060-2063.	3.3	7

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73	DNA Sequencing and analysis of a 40 kb region from the right arm of chromosome II fromSchizosaccharomyces pombe. Yeast, 1999, 15, 419-426.	1.7	6
74	Photoregulation of carotenogenesis in Phycomyces. Current Genetics, 1984, 8, 261-264.	1.7	5
75	Analysis of 41â€‰kb of the DNA sequence from the right arm of chromosome II ofSchizosaccharomyces pombe. Yeast, 2001, 18, 1111-1116.	1.7	4
76	Sugar transport for enhanced xylose utilization in <i>Ashbya gossypii</i>. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 1173-1179.	3.0	4
77	New Promoters for Metabolic Engineering of Ashbya gossypii. Journal of Fungi (Basel, Switzerland), 2021, 7, 906.	3.5	4
78	The sequence of a 21Â·3kb DNA fragment from the left arm of yeast chromosome XIV revealsLEU4, MET4, POL1, RAS2, and six new open reading frames. Yeast, 1996, 12, 403-409.	1.7	3
79	Metabolic engineering of Ashbya gossypii for limonene production from xylose. , 2022, 15, .		3
80	Genomic Edition of Ashbya gossypii Using One-vector CRISPR/Cas9. Bio-protocol, 2020, 10, e3660.	0.4	2
81	The Sequence of a 20Â·3â€‰kb DNA Fragment from the Left Arm of Saccharomyces cerevisiae Chromosome IV Contains the KIN28, MSS2, PHO2, POL3 and DUN1 Genes, and Six New Open Reading Frames. Yeast, 1996, 12, 1077-1084.	1.7	1
82	Molecular Studies of the Flavinogenic Fungus Ashbya gossypii and the Flavinogenic Yeast Candida famata. , 2017, , 281-296.		1