

David Canovas

List of Publications by Year in descending order

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54
papers

3,041
citations

218381

26
h-index

174990

52
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74
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74
docs citations

74
times ranked

3901
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus <i>Aspergillus</i> . <i>Genome Biology</i> , 2017, 18, 28.	3.8	417
2	Microbial responses to environmental arsenic. <i>BioMetals</i> , 2009, 22, 117-130.	1.8	309
3	Heavy metal tolerance and metal homeostasis in <i>Pseudomonas putida</i> revealed by complete genome analysis. <i>Environmental Microbiology</i> , 2003, 5, 1242-1256.	1.8	213
4	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	1.8	175
5	<i>Chromohalobacter salexigenens</i> sp. nov., a moderately halophilic species that includes <i>Halomonas elongata</i> DSM 3043 and ATCC 33174.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2001, 51, 1457-1462.	0.8	134
6	Regulation of Conidiation by Light in <i>Aspergillus nidulans</i> . <i>Genetics</i> , 2011, 188, 809-822.	1.2	127
7	Evolution of asexual and sexual reproduction in the aspergilli. <i>Studies in Mycology</i> , 2018, 91, 37-59.	4.5	109
8	Isolation and Characterization of Salt-sensitive Mutants of the Moderate Halophile <i>Halomonas elongata</i> and Cloning of the Ectoine Synthesis Genes. <i>Journal of Biological Chemistry</i> , 1997, 272, 25794-25801.	1.6	96
9	Osmoprotectants in <i>Halomonas elongata</i> : high-affinity betaine transport system and choline-betaine pathway. <i>Journal of Bacteriology</i> , 1996, 178, 7221-7226.	1.0	91
10	Characterization of the Genes for the Biosynthesis of the Compatible Solute Ectoine in the Moderately Halophilic Bacterium <i>Halomonas elongata</i> DSM 3043. <i>Systematic and Applied Microbiology</i> , 1998, 21, 487-497.	1.2	91
11	The Histone Acetyltransferase <i>GcnE</i> (<i>GCN5</i>) Plays a Central Role in the Regulation of <i>Aspergillus</i> Asexual Development. <i>Genetics</i> , 2014, 197, 1175-1189.	1.2	79
12	Nitric oxide in fungi: is there NO light at the end of the tunnel?. <i>Current Genetics</i> , 2016, 62, 513-518.	0.8	79
13	Role of N ^β -Acetyldiaminobutyrate as an Enzyme Stabilizer and an Intermediate in the Biosynthesis of Hydroxyectoine. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3774-3779.	1.4	75
14	The Role of Thiol Species in the Hypertolerance of <i>Aspergillus</i> sp. P37 to Arsenic. <i>Journal of Biological Chemistry</i> , 2004, 279, 51234-51240.	1.6	71
15	Genes for the synthesis of the osmoprotectant glycine betaine from choline in the moderately halophilic bacterium <i>Halomonas elongata</i> DSM 3043 The EMBL accession number for the sequence reported in this paper is AJ238780.. <i>Microbiology (United Kingdom)</i> , 2000, 146, 455-463.	0.7	71
16	Nitric oxide synthesis by nitrate reductase is regulated during development in <i>Aspergillus</i> . <i>Molecular Microbiology</i> , 2016, 99, 15-33.	1.2	60
17	An integrated in silico/in vitro approach to assess the xenoestrogenic potential of <i>Alternaria</i> mycotoxins and metabolites. <i>Food Chemistry</i> , 2018, 248, 253-261.	4.2	57
18	Role of Trehalose in Growth at High Temperature of <i>Salmonella enterica</i> Serovar Typhimurium. <i>Journal of Bacteriology</i> , 2001, 183, 3365-3371.	1.0	56

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19	Co-Occurrence and Combinatory Effects of <i>Alternaria</i> Mycotoxins and other Xenobiotics of Food Origin: Current Scenario and Future Perspectives. <i>Toxins</i> , 2019, 11, 640.	1.5	51
20	Isolation of cryptic plasmids from moderately halophilic eubacteria of the genus <i>Halomonas</i> . Characterization of a small plasmid from <i>H. elongata</i> and its use for shuttle vector construction. <i>Molecular Genetics and Genomics</i> , 1995, 246, 411-418.	2.4	46
21	Testing the limits of biological tolerance to arsenic in a fungus isolated from the River Tinto. <i>Environmental Microbiology</i> , 2003, 5, 133-138.	1.8	45
22	Developmental regulation of the glyoxylate cycle in the human pathogen <i>Penicillium marneffeii</i> . <i>Molecular Microbiology</i> , 2006, 62, 1725-1738.	1.2	43
23	Arsenate transport and reduction in the hyper-tolerant fungus <i>Aspergillus</i> sp. P37. <i>Environmental Microbiology</i> , 2003, 5, 1087-1093.	1.8	30
24	Toxicodynamics of Mycotoxins in the Framework of Food Risk Assessment—An In Silico Perspective. <i>Toxins</i> , 2018, 10, 52.	1.5	29
25	Contribution of chemical changes in membrane lipids to the osmoadaptation of the halophilic bacterium <i>Chromohalobacter salexigens</i> . <i>Systematic and Applied Microbiology</i> , 2005, 28, 571-581.	1.2	28
26	Control of Development, Secondary Metabolism and Light-Dependent Carotenoid Biosynthesis by the Velvet Complex of <i>Neurospora crassa</i> . <i>Genetics</i> , 2019, 212, 691-710.	1.2	28
27	Hazard assessment through hybrid in vitro / in silico approach: The case of zearalenone. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015, 32, 275-86.	0.9	28
28	Sphingolipid biosynthesis is required for polar growth in the dimorphic phytopathogen <i>Ustilago maydis</i> . <i>Fungal Genetics and Biology</i> , 2009, 46, 190-200.	0.9	27
29	Cell-Type-Specific Transcriptional Profiles of the Dimorphic Pathogen <i>Penicillium marneffeii</i> Reflect Distinct Reproductive, Morphological, and Environmental Demands. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1997-2014.	0.8	25
30	Hazard identification of cis/trans -zearalenone through the looking-glass. <i>Food and Chemical Toxicology</i> , 2015, 86, 65-71.	1.8	24
31	Selection and Characterization of Biofuel-Producing Environmental Bacteria Isolated from Vegetable Oil-Rich Wastes. <i>PLoS ONE</i> , 2014, 9, e104063.	1.1	22
32	Expanding the chemical space of human serine racemase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4297-4303.	1.0	22
33	High-throughput format for the phenotyping of fungi on solid substrates. <i>Scientific Reports</i> , 2017, 7, 4289.	1.6	22
34	On the Mechanism of Action of Anti-Inflammatory Activity of Hypericin: An In Silico Study Pointing to the Relevance of Janus Kinases Inhibition. <i>Molecules</i> , 2018, 23, 3058.	1.7	20
35	The Cell Wall Integrity Pathway Contributes to the Early Stages of <i>Aspergillus fumigatus</i> Asexual Development. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	20
36	Uncoupling of choline-O-sulphate utilization from osmoprotection in <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2006, 62, 1643-1654.	1.2	19

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37	Flow Cytometry of Microencapsulated Colonies for Genetics Analysis of Filamentous Fungi. G3: Genes, Genomes, Genetics, 2014, 4, 2271-2278.	0.8	19
38	Alternaria toxins as casein kinase 2 inhibitors and possible consequences for estrogenicity: a hybrid in silico/in vitro study. Archives of Toxicology, 2020, 94, 2225-2237.	1.9	19
39	Osmoprotection of Salmonella enterica serovar Typhimurium by N ¹³ -acetyldiaminobutyrate, the precursor of the compatible solute ectoine. Systematic and Applied Microbiology, 2006, 29, 626-633.	1.2	18
40	Genome sequencing of evolved aspergilli populations reveals robust genomes, transversions in <i>A. flavus</i> , and sexual aberrancy in non-homologous end-joining mutants. BMC Biology, 2019, 17, 88.	1.7	18
41	An In Silico Target Fishing Approach to Identify Novel Ochratoxin A Hydrolyzing Enzyme. Toxins, 2020, 12, 258.	1.5	18
42	The Fungal Type II Myosin in <i>Penicillium marneffeii</i> , MyoB, Is Essential for Chitin Deposition at Nascent Septation Sites but Not Actin Localization. Eukaryotic Cell, 2011, 10, 302-312.	3.4	17
43	Osmotic stress limits arsenic hypertolerance in <i>Aspergillus</i> sp. P37. FEMS Microbiology Ecology, 2007, 61, 258-263.	1.3	14
44	Nitric oxide homeostasis is required for light-dependent regulation of conidiation in <i>Aspergillus</i> . Fungal Genetics and Biology, 2020, 137, 103337.	0.9	14
45	Salt-Sensitive and Auxotrophic Mutants of <i>Halomonas elongata</i> and <i>H. meridiana</i> by Use of Hydroxylamine Mutagenesis. Current Microbiology, 1997, 34, 85-90.	1.0	11
46	Hybrid in silico/in vitro target fishing to assign function to “orphan” compounds of food origin – The case of the fungal metabolite atromentin. Food Chemistry, 2019, 270, 61-69.	4.2	11
47	A Hybrid In Silico/In Vitro Target Fishing Study to Mine Novel Targets of Urolithin A and B: A Step Towards a Better Comprehension of Their Estrogenicity. Molecular Nutrition and Food Research, 2020, 64, e2000289.	1.5	10
48	Evidence for an arginine-dependent route for the synthesis of NO in the model filamentous fungus <i>Aspergillus nidulans</i> . Environmental Microbiology, 2021, 23, 6924-6939.	1.8	9
49	An in silico perspective on the toxicodynamic of tetrodotoxin and analogues – A tool for supporting the hazard identification. Toxicon, 2017, 138, 107-118.	0.8	7
50	A target fishing study to spot possible biological targets of fusaric acid: Inhibition of protein kinase-A and insights on the underpinning mechanisms. Food and Chemical Toxicology, 2022, 159, 112663.	1.8	6
51	The Biology of the Thermally Dimorphic Fungal Pathogen <i>Penicillium marneffeii</i> . , 2007, , 213-226.		5
52	A Straightforward Access to New Families of Lipophilic Polyphenols by Using Lipolytic Bacteria. PLoS ONE, 2016, 11, e0166561.	1.1	4
53	An <i>arsRB</i> resistance operon confers tolerance to arsenite in the environmental isolate <i>Terribacillus</i> sp. AE2B 122. FEMS Microbiology Ecology, 2021, 97, .	1.3	2
54	Identification of an acetyl esterase in the supernatant of the environmental strain <i>Bacillus</i> sp. HR21-6. Biochimie, 2022, 198, 48-59.	1.3	0