

# 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  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3901  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A target fishing study to spot possible biological targets of fusaric acid: Inhibition of protein kinase-A and insights on the underpinning mechanisms. <i>Food and Chemical Toxicology</i> , 2022, 159, 112663.              | 1.8 | 6         |
| 2  | Identification of an acetyl esterase in the supernatant of the environmental strain <i>Bacillus</i> sp. HR21-6. <i>Biochimie</i> , 2022, 198, 48-59.  | 1.3 | 0         |
| 3  | An <i>arsRB</i> resistance operon confers tolerance to arsenite in the environmental isolate <i>Terribacillus</i> sp. AE2B 122. <i>FEMS Microbiology Ecology</i> , 2021, 97, .  | 1.3 | 2         |
| 4  | Evidence for an arginine-dependent route for the synthesis of NO in the model filamentous fungus <i>Aspergillus nidulans</i> . <i>Environmental Microbiology</i> , 2021, 23, 6924-6939.                                       | 1.8 | 9         |
| 5  | 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. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000289. | 1.5 | 10        |
| 6  | Nitric oxide homeostasis is required for light-dependent regulation of conidiation in <i>Aspergillus</i> . <i>Fungal Genetics and Biology</i> , 2020, 137, 103337.  | 0.9 | 14        |
| 7  | 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        |
| 8  | Alternaria toxins as casein kinase 2 inhibitors and possible consequences for estrogenicity: a hybrid in silico/in vitro study. <i>Archives of Toxicology</i> , 2020, 94, 2225-2237.  | 1.9 | 19        |
| 9  | An In Silico Target Fishing Approach to Identify Novel Ochratoxin A Hydrolyzing Enzyme. <i>Toxins</i> , 2020, 12, 258.  | 1.5 | 18        |
| 10 | Hybrid in silico/in vitro target fishing to assign function to "orphan" compounds of food origin " The case of the fungal metabolite atromentin. <i>Food Chemistry</i> , 2019, 270, 61-69.                                    | 4.2 | 11        |
| 11 | Co-Occurrence and Combinatory Effects of Alternaria Mycotoxins and other Xenobiotics of Food Origin: Current Scenario and Future Perspectives. <i>Toxins</i> , 2019, 11, 640.   | 1.5 | 51        |
| 12 | 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        |
| 13 | Genome sequencing of evolved aspergilli populations reveals robust genomes, transversions in <i>A. flavus</i> , and sexual aberrancy in non-homologous end-joining mutants. <i>BMC Biology</i> , 2019, 17, 88.                | 1.7 | 18        |
| 14 | An integrated in silico/in vitro approach to assess the xenoestrogenic potential of Alternaria mycotoxins and metabolites. <i>Food Chemistry</i> , 2018, 248, 253-261.  | 4.2 | 57        |
| 15 | Evolution of asexual and sexual reproduction in the aspergilli. <i>Studies in Mycology</i> , 2018, 91, 37-59.   | 4.5 | 109       |
| 16 | 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        |
| 17 | Toxicodynamics of Mycotoxins in the Framework of Food Risk Assessment" An In Silico Perspective. <i>Toxins</i> , 2018, 10, 52.  | 1.5 | 29        |
| 18 | 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       |

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|----|---|-----|-----------|
| 19 | An in silico perspective on the toxicodynamic of tetrodotoxin and analogues – A tool for supporting the hazard identification. <i>Toxicon</i> , 2017, 138, 107-118.   | 0.8 | 7         |
| 20 | High-throughput format for the phenotyping of fungi on solid substrates. <i>Scientific Reports</i> , 2017, 7, 4289.   | 1.6 | 22        |
| 21 | A Straightforward Access to New Families of Lipophilic Polyphenols by Using Lipolytic Bacteria. <i>PLoS ONE</i> , 2016, 11, e0166561.   | 1.1 | 4         |
| 22 | 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        |
| 23 | Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.   | 1.8 | 175       |
| 24 | 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        |
| 25 | Hazard identification of cis/trans -zearalenone through the looking-glass. <i>Food and Chemical Toxicology</i> , 2015, 86, 65-71.   | 1.8 | 24        |
| 26 | Expanding the chemical space of human serine racemase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4297-4303.  | 1.0 | 22        |
| 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 | Selection and Characterization of Biofuel-Producing Environmental Bacteria Isolated from Vegetable Oil-Rich Wastes. <i>PLoS ONE</i> , 2014, 9, e104063.   | 1.1 | 22        |
| 29 | The Histone Acetyltransferase GcnE (GCN5) Plays a Central Role in the Regulation of <i>Aspergillus</i> Asexual Development. <i>Genetics</i> , 2014, 197, 1175-1189.   | 1.2 | 79        |
| 30 | Flow Cytometry of Microencapsulated Colonies for Genetics Analysis of Filamentous Fungi. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 2271-2278.  | 0.8 | 19        |
| 31 | Cell-Type-Specific Transcriptional Profiles of the Dimorphic Pathogen <i>Penicillium marneffei</i> Reflect Distinct Reproductive, Morphological, and Environmental Demands. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1997-2014. | 0.8 | 25        |
| 32 | Regulation of Conidiation by Light in <i>Aspergillus nidulans</i> . <i>Genetics</i> , 2011, 188, 809-822.   | 1.2 | 127       |
| 33 | The Fungal Type II Myosin in <i>Penicillium marneffei</i> , MyoB, Is Essential for Chitin Deposition at Nascent Septation Sites but Not Actin Localization. <i>Eukaryotic Cell</i> , 2011, 10, 302-312.                               | 3.4 | 17        |
| 34 | Microbial responses to environmental arsenic. <i>BioMetals</i> , 2009, 22, 117-130.   | 1.8 | 309       |
| 35 | 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        |
| 36 | Osmotic stress limits arsenic hypertolerance in <i>Aspergillus</i> sp. P37. <i>FEMS Microbiology Ecology</i> , 2007, 61, 258-263.   | 1.3 | 14        |

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|----|---|-----|-----------|
| 37 | The Biology of the Thermally Dimorphic Fungal Pathogen <i>Penicillium marneffei</i> . , 2007, , 213-226.  |     | 5         |
| 38 | Developmental regulation of the glyoxylate cycle in the human pathogen <i>Penicillium marneffei</i> . <i>Molecular Microbiology</i> , 2006, 62, 1725-1738.  | 1.2 | 43        |
| 39 | Uncoupling of choline-O-sulphate utilization from osmoprotection in <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2006, 62, 1643-1654.  | 1.2 | 19        |
| 40 | Osmoprotection of <i>Salmonella enterica</i> serovar Typhimurium by N <sup>1</sup> -acetyldiaminobutyrate, the precursor of the compatible solute ectoine. <i>Systematic and Applied Microbiology</i> , 2006, 29, 626-633.  | 1.2 | 18        |
| 41 | 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        |
| 42 | 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        |
| 43 | 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        |
| 44 | 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        |
| 45 | Heavy metal tolerance and metal homeostasis in <i>Pseudomonas putida</i> as revealed by complete genome analysis. <i>Environmental Microbiology</i> , 2003, 5, 1242-1256.   | 1.8 | 213       |
| 46 | 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        |
| 47 | <i>Chromohalobacter salexigens</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       |
| 48 | 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        |
| 49 | Role of N <sup>1</sup> -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        |
| 50 | 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        |
| 51 | 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        |
| 52 | Salt-Sensitive and Auxotrophic Mutants of <i>Halomonas elongata</i> and <i>H. meridiana</i> by Use of Hydroxylamine Mutagenesis. <i>Current Microbiology</i> , 1997, 34, 85-90.   | 1.0 | 11        |
| 53 | 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        |
| 54 | 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        |