

# Eduardo Santero

## List of Publications by Year in descending order

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72  
papers

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201674

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The functional differences between paralogous regulators define the control of the general stress response in <i>Sphingopyxis granuli</i> TFA. <i>Environmental Microbiology</i> , 2022, 24, 1918-1931.	3.8	2
2	The Regulatory Hierarchy Following Signal Integration by the CbrAB Two-Component System: Diversity of Responses and Functions. <i>Genes</i> , 2022, 13, 375.	2.4	13
3	Characterization of a <i>dszEABC</i> operon providing fast growth on dibenzothiophene and construction of broad-host-range biodesulfurization catalysts. <i>Environmental Microbiology</i> , 2022, , .	3.8	7
4	Genetic Characterization of the Ibuprofen-Degradative Pathway of <i>Rhizorhabdus wittichii</i> MPO218. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	3.1	10
5	Detection by metagenomic functional analysis and improvement by experimental evolution of $\beta$ -lactams resistance genes present in oil contaminated soils. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
6	Isolation and genomic characterization of the ibuprofen-degrading bacterium <i>Sphingomonas</i> strain MPO218. <i>Environmental Microbiology</i> , 2021, 23, 267-280.	3.8	20
7	Extracytoplasmic Function $\sigma$ Factors as Tools for Coordinating Stress Responses. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3900.	4.1	10
8	Identification of a complete dibenzothiophene biodesulfurization operon and its regulator by functional metagenomics. <i>Environmental Microbiology</i> , 2020, 22, 91-106.	3.8	17
9	Understanding the metabolism of the tetralin degrader <i>Sphingopyxis granuli</i> strain TFA through genome-scale metabolic modelling. <i>Scientific Reports</i> , 2020, 10, 8651.	3.3	1
10	Identification of two <i>fnr</i> genes and characterisation of their role in the anaerobic switch in <i>Sphingopyxis granuli</i> strain TFA. <i>Scientific Reports</i> , 2020, 10, 21019.	3.3	2
11	Two paralogous EcfG $\sigma$ factors hierarchically orchestrate the activation of the General Stress Response in <i>Sphingopyxis granuli</i> TFA. <i>Scientific Reports</i> , 2020, 10, 5177.	3.3	7
12	Unraveling the role of the CbrA histidine kinase in the signal transduction of the CbrAB two-component system in <i>Pseudomonas putida</i> . <i>Scientific Reports</i> , 2019, 9, 9110.	3.3	16
13	Biodegradation of Tetralin: Genomics, Gene Function and Regulation. <i>Genes</i> , 2019, 10, 339.	2.4	11
14	The response of <i>Sphingopyxis granuli</i> strain TFA to the hostile anoxic condition. <i>Scientific Reports</i> , 2019, 9, 6297.	3.3	7
15	Development of an inducible lytic system for functional metagenomic screening. <i>Scientific Reports</i> , 2019, 9, 3887.	3.3	6
16	Molecular Methods to Analyze the Effect of Proteins Expressed by <i>Salmonella</i> During Its Intracellular Stage. <i>Methods in Molecular Biology</i> , 2018, 1734, 55-70.	0.9	0
17	The CbrB Regulon: Promoter dissection reveals novel insights into the CbrAB expression network in <i>Pseudomonas putida</i> . <i>PLoS ONE</i> , 2018, 13, e0209191.	2.5	10
18	SuhB, a small non-coding RNA involved in catabolite repression of tetralin degradation genes in <i>Sphingopyxis granuli</i> strain TFA. <i>Environmental Microbiology</i> , 2018, 20, 3671-3683.	3.8	11

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19	Development of Genetic Tools for the Manipulation of the Planctomycetes. <i>Frontiers in Microbiology</i> , 2016, 7, 914.	3.5	38
20	A <i>Pseudomonas putida cbrB</i> transposon insertion mutant displays a biofilm hyperproducing phenotype that is resistant to dispersal. <i>Environmental Microbiology Reports</i> , 2016, 8, 622-629.	2.4	6
21	Redox proteins of hydroxylating bacterial dioxygenases establish a regulatory cascade that prevents gratuitous induction of tetralin biodegradation genes. <i>Scientific Reports</i> , 2016, 6, 23848.	3.3	7
22	Engineering Salmonella as intracellular factory for effective killing of tumour cells. <i>Scientific Reports</i> , 2016, 6, 30591.	3.3	53
23	Harnessing the power of microbial metabolism. <i>Current Opinion in Microbiology</i> , 2016, 31, 63-69.	5.1	11
24	Functional Metagenomics of a Biostimulated Petroleum-Contaminated Soil Reveals an Extraordinary Diversity of Extradiol Dioxygenases. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2467-2478.	3.1	33
25	Mechanism of Antiactivation at the <i>Pseudomonas</i> sp. Strain ADP Jf <sup>N</sup> -Dependent P <sub>atZ</sub> Promoter. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4350-4362.	3.1	4
26	Genetic dissection of independent and cooperative transcriptional activation by the LysR-type activator ThnR at close divergent promoters. <i>Scientific Reports</i> , 2016, 6, 24538.	3.3	7
27	Genomic analysis of the nitrate-respiring <i>Sphingopyxis granuli</i> (formerly <i>Sphingomonas</i> ) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	2.8	44
28	Improved cytotoxic effects of <i>S almonella</i> producing cytosine deaminase in tumour cells. <i>Microbial Biotechnology</i> , 2015, 8, 169-176.	4.2	18
29	Genetic evidence of a high-affinity cyanuric acid transport system in <i>Pseudomonas</i> sp. ADP. <i>FEMS Microbiology Letters</i> , 2014, 352, 150-156.	1.8	3
30	Combination of degradation pathways for naphthalene utilization in <i>Rhodococcus</i> sp. strain TFB. <i>Microbial Biotechnology</i> , 2014, 7, 100-113.	4.2	38
31	Hierarchical management of carbon sources is regulated similarly by the CbrA/B systems in <i>Pseudomonas aeruginosa</i> and <i>Pseudomonas putida</i> . <i>Microbiology (United Kingdom)</i> , 2014, 160, 2243-2252.	1.8	62
32	An <i>Atract</i> at the <i>AtzR</i> binding site assists <i>DNA</i> binding, inducer-dependent repositioning and transcriptional activation of the <i>P<sub>atZ</sub>DEF</i> promoter. <i>Molecular Microbiology</i> , 2013, 90, 72-87.	2.5	15
33	Transcriptional activation of the <i>CrcZ</i> and <i>CrcY</i> regulatory <i>RNAs</i> by the <i>CbrB</i> response regulator in <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2013, 89, 189-205.	2.5	40
34	Novel Tools to Analyze the Function of Salmonella Effectors Show That SvpB Ectopic Expression Induces Cell Cycle Arrest in Tumor Cells. <i>PLoS ONE</i> , 2013, 8, e78458.	2.5	16
35	The Ferredoxin ThnA3 Negatively Regulates Tetralin Biodegradation Gene Expression via ThnY, a Ferredoxin Reductase That Functions as a Regulator of the Catabolic Pathway. <i>PLoS ONE</i> , 2013, 8, e73910.	2.5	6
36	Involvement of a Putative Cyclic AMP Receptor Protein (CRP)-Like Binding Sequence and a CRP-Like Protein in Glucose-Mediated Catabolite Repression of <i>thn</i> Genes in <i>Rhodococcus</i> sp. Strain TFB. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5460-5462.	3.1	7

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37	ThnY is a ferredoxin reductase-like iron-sulfur flavoprotein that has evolved to function as a regulator of tetralin biodegradation gene expression.. Journal of Biological Chemistry, 2012, 287, 27451.	3.4	0
38	Transcriptional Organization and Regulatory Elements of a Pseudomonas sp. Strain ADP Operon Encoding a LysR-Type Regulator and a Putative Solute Transport System. Journal of Bacteriology, 2012, 194, 6560-6573.	2.2	16
39	Engineered Salmonella allows real-time heterologous gene expression monitoring within infected zebrafish embryos. Journal of Biotechnology, 2012, 157, 413-416.	3.8	5
40	Involvement of poly(3-hydroxybutyrate) synthesis in catabolite repression of tetralin biodegradation genes in <i>Sphingomonas macroglutabida</i> strain TFA. Environmental Microbiology Reports, 2011, 3, 627-631.	2.4	5
41	Improved Expression Systems for Regulated Expression in Salmonella Infecting Eukaryotic Cells. PLoS ONE, 2011, 6, e23055.	2.5	21
42	Taxonomic and Functional Metagenomic Profiling of the Microbial Community in the Anoxic Sediment of a Sub-saline Shallow Lake (Laguna de Carrizo, Central Spain). Microbial Ecology, 2011, 62, 824-837.	2.8	51
43	ThnY Is a Ferredoxin Reductase-like Iron-Sulfur Flavoprotein That Has Evolved to Function as a Regulator of Tetralin Biodegradation Gene Expression. Journal of Biological Chemistry, 2011, 286, 1709-1718.	3.4	24
44	Regulation of the atrazine-degradative genes in <i>Pseudomonas</i> sp. strain ADP. FEMS Microbiology Letters, 2010, 310, 1-8.	1.8	42
45	Complex interplay between the LysR-type regulator AtzR and its binding site mediates <i>atzDEF</i> activation in response to two distinct signals. Molecular Microbiology, 2010, 76, 331-347.	2.5	22
46	Regulation of glutamate dehydrogenase expression in <i>Pseudomonas putida</i> results from its direct repression by NtrC under nitrogen-limiting conditions. Molecular Microbiology, 2010, 78, 305-319.	2.5	33
47	Lack of CbrB in <i>Pseudomonas putida</i> affects not only amino acids metabolism but also different stress responses and biofilm development. Environmental Microbiology, 2010, 12, 1748-1761.	3.8	46
48	Tetralin-Induced and ThnR-Regulated Aldehyde Dehydrogenase and $\beta^2$ -Oxidation Genes in <i>Sphingomonas macroglutabida</i> Strain TFA. Applied and Environmental Microbiology, 2010, 76, 110-118.	3.1	16
49	NtrC-Dependent Regulatory Network for Nitrogen Assimilation in <i>Pseudomonas putida</i> . Journal of Bacteriology, 2009, 191, 6123-6135.	2.2	70
50	Atrazine biodegradation in the lab and in the field: enzymatic activities and gene regulation. Microbial Biotechnology, 2009, 2, 178-185.	4.2	64
51	Molecular and biochemical characterization of the tetralin degradation pathway in <i>Rhodococcus</i> sp. strain TFB. Microbial Biotechnology, 2009, 2, 262-273.	4.2	21
52	Activation and repression of a $\lambda$ -N-dependent promoter naturally lacking upstream activation sequences. Molecular Microbiology, 2009, 73, 419-433.	2.5	20
53	Coordinated regulation of two divergent promoters through higher-order complex formation by the LysR-type regulator ThnR. Molecular Microbiology, 2009, 73, 1086-1100.	2.5	17
54	Distinct roles for NtrC and GlnK in nitrogen regulation of the <i>Pseudomonas</i> sp. strain ADP cyanuric acid utilization operon. FEMS Microbiology Letters, 2009, 300, 222-229.	1.8	17

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55	Transcriptome Analysis of <i>Pseudomonas putida</i> in Response to Nitrogen Availability. Journal of Bacteriology, 2008, 190, 416-420.	2.2	75
56	Integrated Response to Inducers by Communication between a Catabolic Pathway and Its Regulatory System. Journal of Bacteriology, 2007, 189, 3768-3775.	2.2	17
57	REGULATION OF THE ATRAZINE DEGRADATIVE PATHWAY IN <i>Pseudomonas</i> . , 2007, , 31-39.		0
58	In vivo gene regulation in <i>Salmonella</i> spp. by a salicylate-dependent control circuit. Nature Methods, 2007, 4, 937-942.	19.0	84
59	The LysR-type regulator AtzR binding site: DNA sequences involved in activation, repression and cyanuric acid-dependent repositioning. Molecular Microbiology, 2007, 66, 410-427.	2.5	66
60	Proteomic and transcriptional characterization of aromatic degradation pathways in <i>Rhodococcus</i> sp. strain TFB. Proteomics, 2006, 6, S119-S132.	2.2	49
61	Growth phase-dependent expression of the <i>Pseudomonas putida</i> KT2440 transcriptional machinery analysed with a genome-wide DNA microarray. Environmental Microbiology, 2006, 8, 165-177.	3.8	123
62	Regulation of the <i>Pseudomonas</i> sp. Strain ADP Cyanuric Acid Degradation Operon. Journal of Bacteriology, 2005, 187, 155-167.	2.2	72
63	A new generation of vectors with increased induction ratios by overimposing a second regulatory level by attenuation. Nucleic Acids Research, 2005, 33, e169-e169.	14.5	30
64	Stable long-term indigo production by overexpression of dioxygenase genes using a chromosomal integrated cascade expression circuit. Journal of Biotechnology, 2005, 116, 113-124.	3.8	30
65	Site-directed mutagenesis of an extradiol dioxygenase involved in tetralin biodegradation identifies residues important for activity or substrate specificity. Microbiology (United Kingdom), 2003, 149, 1559-1567.	1.8	12
66	Nitrogen Control of Atrazine Utilization in <i>Pseudomonas</i> sp. Strain ADP. Applied and Environmental Microbiology, 2003, 69, 6987-6993.	3.1	69
67	Identification and Functional Characterization of <i>Sphingomonas macrogolita</i> Strain TFA Genes Involved in the First Two Steps of the Tetralin Catabolic Pathway. Journal of Bacteriology, 2003, 185, 2026-2030.	2.2	53
68	Identification of an Extradiol Dioxygenase Involved in Tetralin Biodegradation: Gene Sequence Analysis and Purification and Characterization of the Gene Product. Journal of Bacteriology, 2000, 182, 789-795.	2.2	31
69	Genetic Analysis of Biodegradation of Tetralin by a <i>Sphingomonas</i> Strain. Applied and Environmental Microbiology, 1999, 65, 1806-1810.	3.1	40
70	Role of integration host factor in stimulating transcription from the $\lambda$ 54-dependent <i>nifH</i> promoter. Journal of Molecular Biology, 1992, 227, 602-620.	4.2	112
71	The integration host factor stimulates interaction of RNA polymerase with NIFA, the transcriptional activator for nitrogen fixation operons. Cell, 1990, 63, 11-22.	28.9	371
72	Glutamate Dehydrogenases: Enzymology, Physiological Role and Biotechnological Relevance. , 0, , .		12