

# Eduardo Diaz

## List of Publications by Citations

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79  
papers

3,627  
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32  
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59  
g-index

85  
ext. papers

4,106  
ext. citations

6.9  
avg, IF

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L-index

#	Paper	IF	Citations
79	Genomic analysis of the aromatic catabolic pathways from <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , <b>2002</b> , 4, 824-41	5.2	380
78	Anaerobic catabolism of aromatic compounds: a genetic and genomic view. <i>Microbiology and Molecular Biology Reviews</i> , <b>2009</b> , 73, 71-133	13.2	312
77	Biodegradation of aromatic compounds by <i>Escherichia coli</i> . <i>Microbiology and Molecular Biology Reviews</i> , <b>2001</b> , 65, 523-69, table of contents	13.2	269
76	The homogentisate pathway: a central catabolic pathway involved in the degradation of L-phenylalanine, L-tyrosine, and 3-hydroxyphenylacetate in <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 5062-77	3.5	190
75	Bacterial degradation of aromatic pollutants: a paradigm of metabolic versatility. <i>International Microbiology</i> , <b>2004</b> , 7, 173-80	3	188
74	Bacterial promoters triggering biodegradation of aromatic pollutants. <i>Current Opinion in Biotechnology</i> , <b>2000</b> , 11, 467-75	11.4	136
73	Aerobic degradation of aromatic compounds. <i>Current Opinion in Biotechnology</i> , <b>2013</b> , 24, 431-42	11.4	125
72	Growth phase-dependent expression of the <i>Pseudomonas putida</i> KT2440 transcriptional machinery analysed with a genome-wide DNA microarray. <i>Environmental Microbiology</i> , <b>2006</b> , 8, 165-77	5.2	120
71	Deciphering the genetic determinants for aerobic nicotinic acid degradation: the nic cluster from <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 11329-34	11.5	112
70	The bzd gene cluster, coding for anaerobic benzoate catabolism, in <i>Azoarcus</i> sp. strain CIB. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 5762-74	3.5	92
69	The evolutionary relationship of biphenyl dioxygenase from gram-positive <i>Rhodococcus globerulus</i> P6 to multicomponent dioxygenases from gram-negative bacteria. <i>Gene</i> , <b>1995</b> , 156, 11-8	3.8	78
68	Enhancing desulphurization by engineering a flavin reductase-encoding gene cassette in recombinant biocatalysts. <i>Environmental Microbiology</i> , <b>2000</b> , 2, 687-94	5.2	72
67	Bacterial degradation of benzoate: cross-regulation between aerobic and anaerobic pathways. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 10494-10508	5.4	66
66	Universal barrier to lateral spread of specific genes among microorganisms. <i>Molecular Microbiology</i> , <b>1994</b> , 13, 855-61	4.1	64
65	Biosynthesis of selenium nanoparticles by <i>Azoarcus</i> sp. CIB. <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 109	6.4	60
64	Engineering synthetic bacterial consortia for enhanced desulfurization and revalorization of oil sulfur compounds. <i>Metabolic Engineering</i> , <b>2016</b> , 35, 46-54	9.7	58
63	Unravelling the gallic acid degradation pathway in bacteria: the gal cluster from <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , <b>2011</b> , 79, 359-74	4.1	58

62	BzdR, a repressor that controls the anaerobic catabolism of benzoate in <i>Azoarcus</i> sp. CIB, is the first member of a new subfamily of transcriptional regulators. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 10683-94	5.4	58
61	The behavior of bacteria designed for biodegradation. <i>Nature Biotechnology</i> , <b>1994</b> , 12, 1349-56	44.5	58
60	Whole-genome analysis of <i>Azoarcus</i> sp. strain CIB provides genetic insights to its different lifestyles and predicts novel metabolic features. <i>Systematic and Applied Microbiology</i> , <b>2015</b> , 38, 462-71	4.2	49
59	Molecular characterization of the gallate dioxygenase from <i>Pseudomonas putida</i> KT2440. The prototype of a new subgroup of extradiol dioxygenases. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 35382-90	5.4	48
58	Speeding up bioproduction of selenium nanoparticles by using <i>Vibrio natriegens</i> as microbial factory. <i>Scientific Reports</i> , <b>2017</b> , 7, 16046	4.9	47
57	New challenges for syngas fermentation: towards production of biopolymers. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 1735-1751	3.5	47
56	A dual lethal system to enhance containment of recombinant micro-organisms. <i>Microbiology (United Kingdom)</i> , <b>2003</b> , 149, 3595-3601	2.9	45
55	Metabolic and process engineering for biodesulfurization in Gram-negative bacteria. <i>Journal of Biotechnology</i> , <b>2017</b> , 262, 47-55	3.7	42
54	The two-step lysis system of pneumococcal bacteriophage EJ-1 is functional in gram-negative bacteria: triggering of the major pneumococcal autolysin in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>1996</b> , 19, 667-81	4.1	41
53	Characterization of the last step of the aerobic phenylacetic acid degradation pathway. <i>Microbiology (United Kingdom)</i> , <b>2007</b> , 153, 357-365	2.9	39
52	Genomic Insights in the Metabolism of Aromatic Compounds in <i>Pseudomonas</i> <b>2004</b> , 425-462		39
51	<i>Azoarcus</i> sp. CIB, an anaerobic biodegrader of aromatic compounds shows an endophytic lifestyle. <i>PLoS ONE</i> , <b>2014</b> , 9, e110771	3.7	33
50	Regulation of the mhp cluster responsible for 3-(3-hydroxyphenyl)propionic acid degradation in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 27575-85	5.4	33
49	A second chromosomal copy of the <i>catA</i> gene endows <i>Pseudomonas putida</i> mt-2 with an enzymatic safety valve for excess of catechol. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 1767-78	5.2	32
48	Characterization of the <i>mbd</i> cluster encoding the anaerobic 3-methylbenzoyl-CoA central pathway. <i>Environmental Microbiology</i> , <b>2013</b> , 15, 148-66	5.2	32
47	Analysis of dibenzothiophene desulfurization in a recombinant <i>Pseudomonas putida</i> strain. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 875-7	4.8	31
46	Genetic characterization of the phenylacetyl-coenzyme A oxygenase from the aerobic phenylacetic acid degradation pathway of <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 7422-6	4.8	28
45	Genetic characterization of the styrene lower catabolic pathway of <i>Pseudomonas</i> sp. strain Y2. <i>Gene</i> , <b>2003</b> , 319, 71-83	3.8	28

44	3-Hydroxyphenylpropionate and phenylpropionate are synergistic activators of the MhpR transcriptional regulator from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 21218-28	5.4	24
43	Biochemical characterization of the transcriptional regulator BzdR from <i>Azoarcus sp. CIB</i> . <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 35694-705	5.4	23
42	Coregulation by phenylacetyl-coenzyme A-responsive PaaX integrates control of the upper and lower pathways for catabolism of styrene by <i>Pseudomonas sp.</i> strain Y2. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 4812-21	3.5	23
41	A gene containment strategy based on a restriction-modification system. <i>Environmental Microbiology</i> , <b>2000</b> , 2, 555-63	5.2	22
40	A stringently controlled expression system for analysing lateral gene transfer between bacteria. <i>Molecular Microbiology</i> , <b>1996</b> , 21, 293-300	4.1	21
39	Aromatic metabolism versus carbon availability: the regulatory network that controls catabolism of less-preferred carbon sources in <i>Escherichia coli</i> . <i>FEMS Microbiology Reviews</i> , <b>2004</b> , 28, 503-18	15.1	20
38	Insights on the regulation of the phenylacetate degradation pathway from <i>Escherichia coli</i> . <i>Environmental Microbiology Reports</i> , <b>2014</b> , 6, 239-50	3.7	19
37	A finely tuned regulatory circuit of the nicotinic acid degradation pathway in <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , <b>2011</b> , 13, 1718-32	5.2	19
36	Characterization of the transcription unit encoding the major pneumococcal autolysin. <i>Gene</i> , <b>1990</b> , 90, 157-62	3.8	19
35	Suicide microbes on the loose. <i>Nature Biotechnology</i> , <b>1995</b> , 13, 35-7	44.5	18
34	Testosterone Degradative Pathway of. <i>Genes</i> , <b>2019</b> , 10,	4.2	17
33	Transcriptional Regulation of the Peripheral Pathway for the Anaerobic Catabolism of Toluene and -Xylene in <i>sp. CIB</i> . <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 506	5.7	16
32	AccR is a master regulator involved in carbon catabolite repression of the anaerobic catabolism of aromatic compounds in <i>Azoarcus sp. CIB</i> . <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 1892-904	5.4	16
31	Identification of the <i>Geobacter metallireducens</i> bamVW two-component system, involved in transcriptional regulation of aromatic degradation. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 383-5	4.8	16
30	Identification and analysis of a glutaryl-CoA dehydrogenase-encoding gene and its cognate transcriptional regulator from <i>Azoarcus sp. CIB</i> . <i>Environmental Microbiology</i> , <b>2008</b> , 10, 474-82	5.2	16
29	Oxygen-dependent regulation of the central pathway for the anaerobic catabolism of aromatic compounds in <i>Azoarcus sp.</i> strain CIB. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 2343-54	3.5	16
28	Genetic clues on the evolution of anaerobic catabolism of aromatic compounds. <i>Microbiology (United Kingdom)</i> , <b>2004</b> , 150, 2018-2021	2.9	15
27	Iron-reducing bacteria unravel novel strategies for the anaerobic catabolism of aromatic compounds. <i>Molecular Microbiology</i> , <b>2005</b> , 58, 1210-5	4.1	15

26	Design of catabolic cassettes for styrene biodegradation. <i>Antonie Van Leeuwenhoek</i> , <b>2003</b> , 84, 17-24	2.1	14
25	Construction of a broad-host-range pneumococcal promoter-probe plasmid. <i>Gene</i> , <b>1990</b> , 90, 163-7	3.8	13
24	Unraveling the specific regulation of the central pathway for anaerobic degradation of 3-methylbenzoate. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 12165-83	5.4	12
23	Identification of a missing link in the evolution of an enzyme into a transcriptional regulator. <i>PLoS ONE</i> , <b>2013</b> , 8, e57518	3.7	11
22	New insights into the BzdR-mediated transcriptional regulation of the anaerobic catabolism of benzoate in <i>Azoarcus</i> sp. CIB. <i>Microbiology (United Kingdom)</i> , <b>2008</b> , 154, 306-316	2.9	11
21	Four Molybdenum-Dependent Steroid C-25 Hydroxylases: Heterologous Overproduction, Role in Steroid Degradation, and Application for 25-Hydroxyvitamin D Synthesis. <i>MBio</i> , <b>2018</b> , 9,	7.8	11
20	The ICE of <i>Azoarcus</i> sp. CIB, an integrative and conjugative element with aerobic and anaerobic catabolic properties. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 5018-5031	5.2	10
19	Degradation of cyclic diguanosine monophosphate by a hybrid two-component protein protects <i>Azoarcus</i> sp. strain CIB from toluene toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13174-13179	11.5	9
18	ArxA From sp. CIB, an Anaerobic Arsenite Oxidase From an Obligate Heterotrophic and Mesophilic Bacterium. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1699	5.7	9
17	Genome Sequence of <i>Pseudomonas azelaica</i> HBP1, Which Catabolizes 2-Hydroxybiphenyl Fungicide. <i>Genome Announcements</i> , <b>2014</b> , 2,		9
16	Restricting the dispersal of recombinant DNA: design of a contained biological catalyst. <i>Nature Biotechnology</i> , <b>1996</b> , 14, 189-91	44.5	9
15	Enhancing the Rice Seedlings Growth Promotion Abilities of sp. CIB by Heterologous Expression of ACC Deaminase to Improve Performance of Plants Exposed to Cadmium Stress. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	8
14	Refactoring the phage lytic/lysogenic decision with a synthetic regulator. <i>MicrobiologyOpen</i> , <b>2016</b> , 5, 575-81	3.4	8
13	Plasmids as Tools for Containment. <i>Microbiology Spectrum</i> , <b>2014</b> , 2,	8.9	7
12	Genome Sequence of <i>Pseudomonas azelaica</i> Strain Aramco J. <i>Genome Announcements</i> , <b>2015</b> , 3,		6
11	Motility, Adhesion and c-di-GMP Influence the Endophytic Colonization of Rice by sp. CIB. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	6
10	Engineering a bzd cassette for the anaerobic bioconversion of aromatic compounds. <i>Microbial Biotechnology</i> , <b>2017</b> , 10, 1418-1425	6.3	5
9	Expanding the current knowledge and biotechnological applications of the oxygen-independent ortho-phthalate degradation pathway. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 3478-3493	5.2	4

8	A preliminary crystallographic study of recombinant NicX, an Fe(2+)-dependent 2,5-dihydroxypyridine dioxygenase from <i>Pseudomonas putida</i> KT2440. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2010</b> , 66, 549-53		4
7	Bioconversion of lignin-derived aromatics into the building block pyridine 2,4-dicarboxylic acid by engineering recombinant <i>Pseudomonas putida</i> strains.. <i>Bioresource Technology</i> , <b>2021</b> , 346, 126638	11	3
6	A Novel Redox-Sensing Histidine Kinase That Controls Carbon Catabolite Repression in sp. CIB. <i>MBio</i> , <b>2019</b> , 10,	7.8	2
5	Plasmids as Tools for Containment589-601		2
4	Elevated c-di-GMP levels promote biofilm formation and biodesulfurization capacity of <i>Rhodococcus erythropolis</i> . <i>Microbial Biotechnology</i> , <b>2021</b> , 14, 923-937	6.3	2
3	The structure of new cis and trans 3?-phenyl-3?,3a?,4?,5?,6?,7a?-hexahydro-2,1-benzisoxazole-7a?-spiro-2-(3-phenylaziridine). <i>Journal of Heterocyclic Chemistry</i> , <b>1993</b> , 30, 97-104	1.9	1
2	Understanding the metabolism of the tetralin degrader <i>Sphingopyxis granuli</i> strain TFA through genome-scale metabolic modelling. <i>Scientific Reports</i> , <b>2020</b> , 10, 8651	4.9	1
1	Plasmids as Tools for Containment615-631		