

Jose M Luengo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4781925/publications.pdf>

Version: 2024-02-01

55
papers

2,220
citations

257450

24
h-index

223800

46
g-index

57
all docs

57
docs citations

57
times ranked

2050
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioplastics from microorganisms. <i>Current Opinion in Microbiology</i> , 2003, 6, 251-260.	5.1	315
2	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> , 2004, 186, 5062-5077.	2.2	225
3	Catabolism of Phenylacetic Acid in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 25974-25986.	3.4	205
4	The phenylacetyl-CoA catabolon: a complex catabolic unit with broad biotechnological applications. <i>Molecular Microbiology</i> , 2001, 39, 1434-1442.	2.5	153
5	Two different pathways are involved in the β^2 -oxidation of n-alkanoic and n-phenylalkanoic acids in <i>Pseudomonas putida</i> U: genetic studies and biotechnological applications. <i>Molecular Microbiology</i> , 2001, 39, 863-874.	2.5	83
6	Genetically engineered <i>Pseudomonas</i> : a factory of new bioplastics with broad applications. <i>Environmental Microbiology</i> , 2001, 3, 612-618.	3.8	79
7	Biochemical Evidence That phaZ Gene Encodes a Specific Intracellular Medium Chain Length Polyhydroxyalkanoate Depolymerase in <i>Pseudomonas putida</i> KT2442. <i>Journal of Biological Chemistry</i> , 2007, 282, 4951-4962.	3.4	77
8	Carbon catabolite repression of penicillin biosynthesis by <i>Penicillium chrysogenum</i> .. <i>Journal of Antibiotics</i> , 1984, 37, 781-789.	2.0	74
9	A New Class of Glutamate Dehydrogenases (GDH). <i>Journal of Biological Chemistry</i> , 2000, 275, 39529-39542.	3.4	74
10	Production of 3-hydroxy-n-phenylalkanoic acids by a genetically engineered strain of <i>Pseudomonas putida</i> . <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 97-105.	3.6	56
11	Steroids as Environmental Compounds Recalcitrant to Degradation: Genetic Mechanisms of Bacterial Biodegradation Pathways. <i>Genes</i> , 2019, 10, 512.	2.4	56
12	l. Uptake of phenylacetic acid by <i>Penicillium chrysogenum</i> WIS 54-1255: A critical regulatory point in benzylpenicillin biosynthesis.. <i>Journal of Antibiotics</i> , 1989, 42, 1398-1409.	2.0	51
13	Genetic and ultrastructural analysis of different mutants of <i>Pseudomonas putida</i> affected in the poly-3-hydroxy-n-alkanoate gene cluster. <i>Environmental Microbiology</i> , 2007, 9, 737-751.	3.8	47
14	Microbial Synthesis of Poly(β^2 -hydroxyalkanoates) Bearing Phenyl Groups from <i>Pseudomonas putida</i> : Chemical Structure and Characterization. <i>Biomacromolecules</i> , 2001, 2, 562-567.	5.4	45
15	A Two-component Hydroxylase Involved in the Assimilation of 3-Hydroxyphenyl Acetate in <i>Pseudomonas putida</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 26435-26447.	3.4	45
16	Synthesis and Degradation of Polyhydroxyalkanoates. , 2007, , 397-428.		44
17	Enzymatic Synthesis of Hydrophobic Penicillins.. <i>Journal of Antibiotics</i> , 1995, 48, 1195-1212.	2.0	43
18	Genetic analyses and molecular characterization of the pathways involved in the conversion of 2-phenylethylamine and 2-phenylethanol into phenylacetic acid in <i>Pseudomonas putida</i> U. <i>Environmental Microbiology</i> , 2008, 10, 413-432.	3.8	43

#	ARTICLE	IF	CITATIONS
19	Molecular Cloning and Expression in Different Microbes of the DNA Encoding Pseudomonas putida U Phenylacetyl-CoA Ligase.. Journal of Biological Chemistry, 1996, 271, 33531-33538.	3.4	42
20	Catabolism of aromatics in Pseudomonas putida U. Formal evidence that phenylacetic acid and 4-hydroxyphenylacetic acid are catabolized by two unrelated pathways. FEBS Journal, 1994, 221, 375-381.	0.2	34
21	The 3,4-dihydroxyphenylacetic acid catabolon, a catabolic unit for degradation of biogenic amines tyramine and dopamine in <i>Pseudomonas putida</i> U. Environmental Microbiology, 2010, 12, 1684-1704.	3.8	31
22	Direct enzymatic synthesis of natural penicillins using phenylacetyl-CoA : 6-APA phenylacetyl transferase of <i>Penicillium chrysogenum</i> : Minimal and maximal side chain length requirements.. Journal of Antibiotics, 1986, 39, 1754-1759.	2.0	30
23	Direct evaluation of phenylacetyl-CoA : 6-Aminopenicillanic acid acyltransferase of <i>Penicillium chrysogenum</i> by bioassay.. Journal of Antibiotics, 1986, 39, 1565-1573.	2.0	29
24	Functional analyses of three acyl-CoA synthetases involved in bile acid degradation in <i>Pseudomonas putida</i> U... Environmental Microbiology, 2015, 17, 47-63.	3.8	28
25	The substrate specificity of deacetoxycephalosporin C synthase (acetyltransferase) of <i>Streptomyces clavuligerus</i> is extremely narrow. Enzyme and Microbial Technology, 1995, 17, 231-234.	3.2	27
26	Catabolism of biogenic amines in <i>Pseudomonas</i> species. Environmental Microbiology, 2020, 22, 1174-1192.	3.8	27
27	III. Repression of phenylacetic acid transport system in <i>Penicillium chrysogenum</i> Wis 54-1255 by free amino acids and ammonium salts.. Journal of Antibiotics, 1989, 42, 1416-1423.	2.0	22
28	II. Phenylacetic acid transport system in <i>Penicillium chrysogenum</i> Wis 54-1255: Molecular specificity of its induction.. Journal of Antibiotics, 1989, 42, 1410-1415.	2.0	22
29	Unusual PHA Biosynthesis. Microbiology Monographs, 2010, , 133-186.	0.6	22
30	V. Biosynthesis of benzylpenicillin (G), phenoxymethylpenicillin (V) and octanoylpenicillin (K) from glutathione S-derivatives.. Journal of Antibiotics, 1990, 43, 684-691.	2.0	18
31	Octanoic acid uptake in <i>Pseudomonas putida</i> U. FEMS Microbiology Letters, 2006, 149, 51-58.	1.8	15
32	Polyhydroxyalkanoate synthases from <i>Pseudomonas putida</i> U: substrate specificity and ultrastructural studies. Microbial Biotechnology, 2008, 1, 170-176.	4.2	15
33	Strategy for Cloning Large Gene Assemblages as Illustrated Using the Phenylacetate and Polyhydroxyalkanoate Gene Clusters. Applied and Environmental Microbiology, 2004, 70, 5019-5025.	3.1	13
34	Acetyl-CoA synthetase from <i>Pseudomonas putida</i> U is the only acyl-CoA activating enzyme induced by acetate in this bacterium. FEMS Microbiology Letters, 2006, 260, 36-46.	1.8	13
35	IV. Acyl-CoA: 6-APA acyltransferase of <i>Penicillium chrysogenum</i> : Studies on substrate specificity using phenylacetyl-CoA variants.. Journal of Antibiotics, 1989, 42, 1502-1505.	2.0	12
36	Characterization of an inducible transport system for glycerol in <i>Streptomyces clavuligerus</i> . Repression by L-serine.. Journal of Antibiotics, 1992, 45, 269-277.	2.0	11

#	ARTICLE	IF	CITATIONS
37	Histamine catabolism in <i>Pseudomonas putida</i> U: identification of the genes, catabolic enzymes and regulators. <i>Environmental Microbiology</i> , 2018, 20, 1828-1841.	3.8	11
38	Acyl-CoA: 6-APA acyltransferase from <i>Penicillium chrysogenum</i> . Studies on its hydrolytic activity.. <i>Journal of Antibiotics</i> , 1991, 44, 108-110.	2.0	10
39	Formation of bulges associated with penicillin production in high-producing strains of <i>Penicillium chrysogenum</i> . <i>Current Microbiology</i> , 1986, 13, 203-207.	2.2	9
40	The Phenylacetic Acid Uptake System of <i>Aspergillus nidulans</i> is under a creA-Independent Model of Catabolic Repression which Seems to be Mediated by Acetyl-CoA.. <i>Journal of Antibiotics</i> , 1997, 50, 45-52.	2.0	9
41	Aliphatic molecules (C-6 to C-8) containing double or triple bonds as potential penicillin side-chain precursors.. <i>Journal of Antibiotics</i> , 1990, 43, 1559-1563.	2.0	8
42	From a Short Amino Acidic Sequence to the Complete Gene. <i>Biochemical and Biophysical Research Communications</i> , 2000, 272, 477-479.	2.1	7
43	Penicillin production by mutants of <i>Penicillium chrysogenum</i> resistant to polyene macrolide antibiotics. <i>Biotechnology Letters</i> , 1979, 1, 233-238.	2.2	6
44	Steroid catabolism in bacteria: Genetic and functional analyses of stdH and stdJ in <i>Pseudomonas putida</i> DOC21. <i>Canadian Journal of Biotechnology</i> , 2018, 2, 88-99.	0.3	6
45	Cyclization of phenylacetyl-L-cysteinyl-D-valine to benzylpenicillin using cell-free extracts of <i>Streptomyces clavuligerus</i> .. <i>Journal of Antibiotics</i> , 1986, 39, 1144-1147.	2.0	5
46	The phasin PhaF controls bacterial shape and size in a network-forming strain of <i>Pseudomonas putida</i> . <i>Journal of Biotechnology</i> , 2015, 199, 17-20.	3.8	5
47	Inhibition of penicillin biosynthetic enzymes by halogen derivatives of phenylacetic acid. <i>Journal of Industrial Microbiology</i> , 1994, 13, 144-146.	0.9	4
48	The loss of function of <i>PhaC</i> 1 is a survival mechanism that counteracts the stress caused by the overproduction of poly- β -hydroxyalkanoates in <i>Pseudomonas putida</i> <i>fadBA</i> . <i>Environmental Microbiology</i> , 2015, 17, 3182-3194.	3.8	4
49	The Catabolism of Phenylacetic Acid and Other Related Molecules in <i>Pseudomonas putida</i> U. , 2007, , 147-192.		4
50	Enzymatic Synthesis of Penicillins. , 1999, , 239-274.		2
51	Plasmids containing the same origin of replication are useful tools to perform biotechnological studies in <i>Pseudomonas putida</i> U and in <i>E. coli</i> DH10B. <i>Canadian Journal of Biotechnology</i> , 2017, 1, 38-43.	0.3	1
52	Identification and Characterization of the Genes and Enzymes Belonging to the Bile Acid Catabolic Pathway in <i>Pseudomonas</i> . <i>Methods in Molecular Biology</i> , 2017, 1645, 109-142.	0.9	1
53	A genetically engineered strain of <i>Pseudomonas putida</i> as a useful tool for identifying new therapeutic herbicides. <i>FEMS Microbiology Letters</i> , 2005, 249, 297-302.	1.8	0
54	Purification and characterization of the 4-hydroxyphenylacetic acid-3-hydroxylase from <i>Pseudomonas putida</i> U. <i>FEMS Microbiology Letters</i> , 2006, 157, 47-53.	1.8	0

#	ARTICLE	IF	CITATIONS
55	Engineering Strategies for Efficient and Sustainable Production of Medium-Chain Length Polyhydroxyalkanoates in Pseudomonads. , 2021, , 581-660.		0