

Gloria Sobern-Chvez

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79
papers

2,815
citations

27
h-index

52
g-index

83
ext. papers

3,105
ext. citations

3.9
avg, IF

5.15
L-index

#	Paper	IF	Citations
79	<i>Pseudomonas aeruginosa</i> rhamnolipids: biosynthesis and potential applications. <i>Applied Microbiology and Biotechnology</i> , 2000 , 54, 625-33	5.7	430
78	Production of rhamnolipids by <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2005 , 68, 718-25	5.7	334
77	Cloning and functional characterization of the <i>Pseudomonas aeruginosa</i> rhIC gene that encodes rhamnosyltransferase 2, an enzyme responsible for di-rhamnolipid biosynthesis. <i>Molecular Microbiology</i> , 2001 , 40, 708-18	4.1	207
76	Mechanism of <i>Pseudomonas aeruginosa</i> RhIR transcriptional regulation of the rhIAB promoter. <i>Journal of Bacteriology</i> , 2003 , 185, 5976-83	3.5	110
75	Transcriptional regulation of <i>Pseudomonas aeruginosa</i> rhIR, encoding a quorum-sensing regulatory protein. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 3073-3081	2.9	108
74	Characterization of the genes coding for the putative sigma factor AlgU and its regulators MucA, MucB, MucC, and MucD in <i>Azotobacter vinelandii</i> and evaluation of their roles in alginate biosynthesis. <i>Journal of Bacteriology</i> , 1996 , 178, 1800-8	3.5	82
73	Monorhamnolipids and 3-(3-hydroxyalkanoyloxy)alkanoic acids (HAAs) production using <i>Escherichia coli</i> as a heterologous host. <i>Applied Microbiology and Biotechnology</i> , 2006 , 73, 187-94	5.7	81
72	Characterization of the gene coding for GDP-mannose dehydrogenase (algD) from <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 1996 , 178, 1793-9	3.5	76
71	Rhamnolipids: Production in bacteria other than <i>Pseudomonas aeruginosa</i> . <i>European Journal of Lipid Science and Technology</i> , 2010 , 112, 1082-1087	3	70
70	<i>Pseudomonas aeruginosa</i> clinical and environmental isolates constitute a single population with high phenotypic diversity. <i>BMC Genomics</i> , 2014 , 15, 318	4.5	67
69	Genetic rearrangements of a <i>Rhizobium phaseoli</i> symbiotic plasmid. <i>Journal of Bacteriology</i> , 1986 , 167, 487-91	3.5	63
68	Regulation of <i>Pseudomonas aeruginosa</i> virulence factors by two novel RNA thermometers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15562-7	11.5	57
67	The <i>Pseudomonas aeruginosa</i> rhIAB operon is not expressed during the logarithmic phase of growth even in the presence of its activator RhIR and the autoinducer N-butyryl-homoserine lactone. <i>Journal of Bacteriology</i> , 2003 , 185, 377-80	3.5	50
66	The <i>Pseudomonas aeruginosa</i> RhIA enzyme is involved in rhamnolipid and polyhydroxyalkanoate production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005 , 32, 675-7	4.2	48
65	Biosurfactants: A General Overview. <i>Microbiology Monographs</i> , 2011 , 1-11	0.8	46
64	Isolation from soil of <i>Rhizobium leguminosarum</i> lacking symbiotic information. <i>Canadian Journal of Microbiology</i> , 1989 , 35, 464-468	3.2	46
63	Genetic analysis of the transcriptional arrangement of <i>Azotobacter vinelandii</i> alginate biosynthetic genes: identification of two independent promoters. <i>Molecular Microbiology</i> , 1996 , 21, 449-57	4.1	45

62	Transcriptional regulation of <i>Pseudomonas aeruginosa</i> rhlR: role of the CRP orthologue Vfr (virulence factor regulator) and quorum-sensing regulators LasR and RhIR. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 2545-2555	2.9	44
61	The third quorum-sensing system of : quinolone signal and the enigmatic PqsE protein. <i>Journal of Medical Microbiology</i> , 2020 , 69, 25-34	3.2	41
60	The <i>Pseudomonas aeruginosa</i> rmlBDAC operon, encoding dTDP-L-rhamnose biosynthetic enzymes, is regulated by the quorum-sensing transcriptional regulator RhIR and the alternative sigma factor σ . <i>Microbiology (United Kingdom)</i> , 2012 , 158, 908-916	2.9	40
59	Role of <i>Azotobacter vinelandii</i> mucA and mucC gene products in alginate production. <i>Journal of Bacteriology</i> , 2000 , 182, 6550-6	3.5	38
58	High variability in quorum quenching and growth inhibition by furanone C-30 in <i>Pseudomonas aeruginosa</i> clinical isolates from cystic fibrosis patients. <i>Pathogens and Disease</i> , 2015 , 73, ftv040	4.2	37
57	The <i>Azotobacter vinelandii</i> alg8 and alg44 genes are essential for alginate synthesis and can be transcribed from an algD-independent promoter. <i>Gene</i> , 1997 , 199, 271-7	3.8	37
56	<i>Pseudomonas aeruginosa</i> ATCC 9027 is a non-virulent strain suitable for mono-rhamnolipids production. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 9995-10004	5.7	36
55	Is <i>Pseudomonas aeruginosa</i> only "sensing quorum"? <i>Critical Reviews in Microbiology</i> , 2005 , 31, 171-82	7.8	35
54	Characterization of the <i>Azotobacter vinelandii</i> algC gene involved in alginate and lipopolysaccharide production. <i>FEMS Microbiology Letters</i> , 2004 , 238, 199-206	2.9	28
53	<i>Pseudomonas</i> lipases: molecular genetics and potential industrial applications. <i>Critical Reviews in Microbiology</i> , 1994 , 20, 95-105	7.8	27
52	Inactivation of the quorum-sensing transcriptional regulators LasR or RhIR does not suppress the expression of virulence factors and the virulence of <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , 2019 , 165, 425-432	2.9	25
51	Characterization of the <i>Azotobacter vinelandii</i> algC gene involved in alginate and lipopolysaccharide production. <i>FEMS Microbiology Letters</i> , 2004 , 238, 199-206	2.9	24
50	Selection and partial characterization of a <i>Pseudomonas aeruginosa</i> mono-rhamnolipid deficient mutant. <i>FEMS Microbiology Letters</i> , 1997 , 153, 279-85	2.9	23
49	RNA structures are involved in the thermoregulation of bacterial virulence-associated traits. <i>Trends in Microbiology</i> , 2015 , 23, 509-18	12.4	22
48	Characterization of a novel biosurfactant producing <i>Pseudomonas koreensis</i> lineage that is endemic to Cuatro Ciñegas Basin. <i>Systematic and Applied Microbiology</i> , 2011 , 34, 531-5	4.2	22
47	Exploiting Quorum Sensing Inhibition for the Control of <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter baumannii</i> Biofilms. <i>Current Topics in Medicinal Chemistry</i> , 2017 , 17, 1915-1927	3	22
46	<i>Pseudomonas aeruginosa</i> quorum-sensing response in the absence of functional LasR and LasI proteins: the case of strain 148, a virulent dolphin isolate. <i>FEMS Microbiology Letters</i> , 2017 , 364,	2.9	20
45	Two-role model of an interaction network of free-living β proteobacteria from an oligotrophic environment. <i>Environmental Microbiology</i> , 2014 , 16, 1366-77	5.2	20

44	Isolation and characterization of an <i>Azotobacter vinelandii</i> algK mutant. <i>FEMS Microbiology Letters</i> , 1997 , 156, 101-6	2.9	20
43	Rhamnolipids produced by <i>Pseudomonas</i> : from molecular genetics to the market. <i>Microbial Biotechnology</i> , 2021 , 14, 136-146	6.3	18
42	Genetic and phenotypic characterization of a <i>Pseudomonas aeruginosa</i> population with high frequency of genomic islands. <i>PLoS ONE</i> , 2012 , 7, e37459	3.7	17
41	Inactivation of the ampDE operon increases transcription of algD and affects morphology and encystment of <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 4829-35	3.5	17
40	Expression of cholera toxin under non-AKI conditions in <i>Vibrio cholerae</i> El Tor induced by increasing the exposed surface of cultures. <i>Journal of Bacteriology</i> , 2004 , 186, 1355-61	3.5	16
39	The Transcriptional Regulators of the CRP Family Regulate Different Essential Bacterial Functions and Can Be Inherited Vertically and Horizontally. <i>Frontiers in Microbiology</i> , 2017 , 8, 959	5.7	15
38	Biochemical characterization of the lipolytic activity of <i>pseudomonas aeruginosa</i> IGB 83. <i>Process Biochemistry</i> , 1994 , 29, 207-212	4.8	15
37	Overproduction of rhamnolipids in <i>Pseudomonas aeruginosa</i> PA14 by redirection of the carbon flux from polyhydroxyalkanoate synthesis and overexpression of the rhlAB-R operon. <i>Biotechnology Letters</i> , 2018 , 40, 1561-1566	3	15
36	Role of β -oxidation and de novo fatty acid synthesis in the production of rhamnolipids and polyhydroxyalkanoates by <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 3753-3760	5.7	14
35	Strong seed-bank effects in bacterial evolution. <i>Journal of Theoretical Biology</i> , 2014 , 356, 62-70	2.3	14
34	Characterization of the lipA gene encoding the major lipase from <i>Pseudomonas aeruginosa</i> strain IGB83. <i>Applied Microbiology and Biotechnology</i> , 2001 , 56, 731-5	5.7	14
33	The Rhl Quorum-Sensing System Is at the Top of the Regulatory Hierarchy under Phosphate-Limiting Conditions in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2021 , 203,	3.5	13
32	Variability of Bacterial Essential Genes Among Closely Related Bacteria: The Case of. <i>Frontiers in Microbiology</i> , 2018 , 9, 1059	5.7	12
31	Genetic stability and xanthan gum production in <i>Xanthomonas campestris</i> pv. <i>campestris</i> NRRL B1459. <i>Molecular Microbiology</i> , 1993 , 8, 1053-61	4.1	12
30	Theoretical analysis of the cost of antagonistic activity for aquatic bacteria in oligotrophic environments. <i>Frontiers in Microbiology</i> , 2015 , 6, 490	5.7	9
29	The <i>pseudomonas aeruginosa</i> motR gene involved in regulation of bacterial motility. <i>FEMS Microbiology Letters</i> , 2000 , 184, 57-62	2.9	9
28	Complete Genome Sequence of <i>Serratia marcescens</i> SmUNAM836, a Nonpigmented Multidrug-Resistant Strain Isolated from a Mexican Patient with Obstructive Pulmonary Disease. <i>Genome Announcements</i> , 2016 , 4,		8
27	Biosynthesis of Rhamnolipids 2004 , 173-189		8

26	The <i>Pseudomonas aeruginosa</i> hscA gene encodes Hsc66, a DnaK homologue. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 6), 1429-1435	2.9	8
25	The outlier <i>Pseudomonas aeruginosa</i> strain ATCC 9027 harbors a defective LasR quorum-sensing transcriptional regulator. <i>FEMS Microbiology Letters</i> , 2020 , 367,	2.9	8
24	Two <i>Pseudomonas aeruginosa</i> clonal groups belonging to the PA14 clade are indigenous to the Churince system in Cuatro Ciénegas Coahuila, México. <i>Environmental Microbiology</i> , 2019 , 21, 2964-2976	5.2	7
23	Virulence factors regulation by the quorum-sensing and Rsm systems in the marine strain <i>Pseudomonas aeruginosa</i> ID4365, a natural mutant in lasR. <i>FEMS Microbiology Letters</i> , 2020 , 367,	2.9	7
22	The effect of specific rhlA-las-box mutations on DNA binding and gene activation by <i>Pseudomonas aeruginosa</i> quorum-sensing transcriptional regulators RhlR and LasR. <i>FEMS Microbiology Letters</i> , 2014 , 356, 217-25	2.9	7
21	Evaluation of the role of recA protein in plant virulence with recA mutants of <i>Xanthomonas campestris</i> pv. <i>campestris</i> . <i>Molecular Plant-Microbe Interactions</i> , 1997 , 10, 911-6	3.6	7
20	Evaluation of the biological containment system based on the <i>Escherichia coli</i> gef gene in <i>Pseudomonas aeruginosa</i> W51D. <i>Applied Microbiology and Biotechnology</i> , 1996 , 46, 549-53	5.7	7
19	<i>Xanthomonas campestris</i> as a host for the production of recombinant <i>Pseudomonas aeruginosa</i> lipase. <i>Journal of Industrial Microbiology</i> , 1996 , 16, 22-28		7
18	Selection and preliminary characterization of a <i>Pseudomonas aeruginosa</i> strain mineralizing selected isomers in a branched chain dodecylbenzenesulphonate mixture. <i>World Journal of Microbiology and Biotechnology</i> , 1996 , 12, 367-72	4.4	6
17	Degradation of the methyl substituted alkene, citronellol, by <i>Pseudomonas aeruginosa</i> , wild type and mutant strains. <i>Biotechnology Letters</i> , 2000 , 22, 235-237	3	5
16	Formation of <i>Rhizobium phaseoli</i> symbiotic plasmids by genetic recombination. <i>Molecular Microbiology</i> , 1991 , 5, 909-16	4.1	5
15	Tracking the genome of four isolates that have a defective Las quorum-sensing system, but are still virulent. <i>Access Microbiology</i> , 2020 , 2, acmi000132	1	5
14	Rhamnolipids stabilize quorum sensing mediated cooperation in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2020 , 367,	2.9	4
13	Lipoprotein N-acyl transferase (Lnt1) is dispensable for protein O-mannosylation by <i>Streptomyces coelicolor</i> . <i>FEMS Microbiology Letters</i> , 2014 , 350, 72-82	2.9	4
12	Complete Genome Sequences of Two Strains Isolated from Children with Bacteremia. <i>Genome Announcements</i> , 2017 , 5,		3
11	Complete Genome Sequences of Four Extensively Drug-Resistant Strains, Isolated from Adults with Ventilator-Associated Pneumonia at a Tertiary Referral Hospital in Mexico City. <i>Genome Announcements</i> , 2017 , 5,		3
10	Evolution of bacteria seen through their essential genes: the case of and. <i>Microbiology (United Kingdom)</i> , 2019 , 165, 976-984	2.9	3
9	A Novel Two-Component System, Encoded by the s/ Genes, Affects Morphology in Liquid Culture. <i>Frontiers in Microbiology</i> , 2019 , 10, 1568	5.7	2

8	Cloning and characterization of a FAD-monooxygenase gene (cadA) involved in degradation of chloranilic acid (2,5-dichloro-3,6-dihydroxybenzo-1,4-quinone) in Pseudomonas putida TQ07. <i>Applied Microbiology and Biotechnology</i> , 2002 , 59, 545-50	5.7	2
7	The Pseudomonas aeruginosa algC gene product participates in rhamnolipid biosynthesis		2
6	Vfr or CyaB promote the expression of the pore-forming toxin operon in ATCC 9027 without increasing its virulence in mice. <i>Microbiology (United Kingdom)</i> , 2021 , 167,	2.9	2
5	PqsR-independent quorum-sensing response of Pseudomonas aeruginosa ATCC 9027 outlier-strain reveals new insights on the PqsE effect on RhlR activity. <i>Molecular Microbiology</i> , 2021 , 116, 1113-1123	4.1	2
4	Partial deletion of the Rhizobium phaseoli CFN23 symbiotic plasmid implies a concomitant amplification of plasmid DNA sequences. <i>Molecular Microbiology</i> , 1991 , 5, 89-95	4.1	1
3	Presencia de genes rhlAB, rhlR y rhlC en Pseudomonas aeruginosa nativas sobreproductoras de ramnolípidos. <i>Revista Peruana De Biología</i> , 2017 , 24, 293	1.2	
2	Overview on Glycosylated Lipids Produced by Bacteria and Fungi: Rhamno-, Sophoro-, Mannosylerythritol and Cellobiose Lipids.. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2022 , 1	1.7	
1	Tracking the Origins of Pseudomonas aeruginosa Phylogroups by Diversity and Evolutionary Analysis of Important Pathogenic Marker Genes. <i>Diversity</i> , 2022 , 14, 345	2.5	