Gloria Sobern-Chvez

List of Publications by Year in Descending Order

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	Overview on Glycosylated Lipids Produced by Bacteria and Fungi: Rhamno-, Sophoro-, Mannosylerythritol and Cellobiose Lipids.. *Advances in Biochemical Engineering/Biotechnology*, **2022**, 1	1.7	
78	Tracking the Origins of Pseudomonas aeruginosa Phylogroups by Diversity and Evolutionary Analysis of Important Pathogenic Marker Genes. *Diversity*, **2022**, 14, 345	2.5	
77	Rhamnolipids produced by Pseudomonas: from molecular genetics to the market. *Microbial Biotechnology*, **2021**, 14, 136-146	6.3	18
76	The Rhl Quorum-Sensing System Is at the Top of the Regulatory Hierarchy under Phosphate-Limiting Conditions in Pseudomonas aeruginosa PAO1. *Journal of Bacteriology*, **2021**, 203,	3.5	13
75	Vfr or CyaB promote the expression of the pore-forming toxin operon in ATCC 9027 without increasing its virulence in mice. *Microbiology (United Kingdom)*, **2021**, 167,	2.9	2
74	PqsR-independent quorum-sensing response of Pseudomonas aeruginosa ATCC 9027 outlier-strain reveals new insights on the PqsE effect on RhlR activity. *Molecular Microbiology*, **2021**, 116, 1113-1123	4.1	2
73	Rhamnolipids stabilize quorum sensing mediated cooperation in Pseudomonas aeruginosa. *FEMS Microbiology Letters*, **2020**, 367,	2.9	4
72	Virulence factors regulation by the quorum-sensing and Rsm systems in the marine strain Pseudomonas aeruginosa ID4365, a natural mutant in lasR. *FEMS Microbiology Letters*, **2020**, 367,	2.9	7
71	Tracking the genome of four isolates that have a defective Las quorum-sensing system, but are still virulent. *Access Microbiology*, **2020**, 2, acmi000132	1	5
70	The third quorum-sensing system of : quinolone signal and the enigmatic PqsE protein. *Journal of Medical Microbiology*, **2020**, 69, 25-34	3.2	41
69	The outlier Pseudomonas aeruginosa strain ATCC 9027 harbors a defective LasR quorum-sensing transcriptional regulator. *FEMS Microbiology Letters*, **2020**, 367,	2.9	8
68	Two Pseudomonas aeruginosa clonal groups belonging to the PA14 clade are indigenous to the Churince system in Cuatro Ciénegas Coahuila, México. *Environmental Microbiology*, **2019**, 21, 2964-2976	5.2	7
67	Role of β-oxidation and de novo fatty acid synthesis in the production of rhamnolipids and polyhydroxyalkanoates by Pseudomonas aeruginosa. *Applied Microbiology and Biotechnology*, **2019**, 103, 3753-3760	5.7	14
66	A Novel Two-Component System, Encoded by the s/ Genes, Affects Morphology in Liquid Culture. *Frontiers in Microbiology*, **2019**, 10, 1568	5.7	2
65	Inactivation of the quorum-sensing transcriptional regulators LasR or RhlR does not suppress the expression of virulence factors and the virulence of Pseudomonas aeruginosa PAO1. *Microbiology (United Kingdom)*, **2019**, 165, 425-432	2.9	25
64	Evolution of bacteria seen through their essential genes: the case of and. *Microbiology (United Kingdom)*, **2019**, 165, 976-984	2.9	3
63	Variability of Bacterial Essential Genes Among Closely Related Bacteria: The Case of. *Frontiers in Microbiology*, **2018**, 9, 1059	5.7	12

62	Overproduction of rhamnolipids in Pseudomonas aeruginosa PA14 by redirection of the carbon flux from polyhydroxyalkanoate synthesis and overexpression of the rhlAB-R operon. *Biotechnology Letters*, **2018**, 40, 1561-1566	3	15
61	Pseudomonas aeruginosa quorum-sensing response in the absence of functional LasR and LasI proteins: the case of strain 148, a virulent dolphin isolate. *FEMS Microbiology Letters*, **2017**, 364,	2.9	20
60	Complete Genome Sequences of Two Strains Isolated from Children with Bacteremia. *Genome Announcements*, **2017**, 5,		3
59	Presencia de genes rhlAB, rhlR y rhlC en Pseudomonas aeruginosa nativas sobreproductoras de ramnol□idos. *Revista Peruana De Biologia*, **2017**, 24, 293	1.2	
58	Complete Genome Sequences of Four Extensively Drug-Resistant Strains, Isolated from Adults with Ventilator-Associated Pneumonia at a Tertiary Referral Hospital in Mexico City. *Genome Announcements*, **2017**, 5,		3
57	The Transcriptional Regulators of the CRP Family Regulate Different Essential Bacterial Functions and Can Be Inherited Vertically and Horizontally. *Frontiers in Microbiology*, **2017**, 8, 959	5.7	15
56	Exploiting Quorum Sensing Inhibition for the Control of Pseudomonas aeruginosa and Acinetobacter baumannii Biofilms. *Current Topics in Medicinal Chemistry*, **2017**, 17, 1915-1927	3	22
55	Complete Genome Sequence of Serratia marcescens SmUNAM836, a Nonpigmented Multidrug-Resistant Strain Isolated from a Mexican Patient with Obstructive Pulmonary Disease. *Genome Announcements*, **2016**, 4,		8
54	Pseudomonas aeruginosa ATCC 9027 is a non-virulent strain suitable for mono-rhamnolipids production. *Applied Microbiology and Biotechnology*, **2016**, 100, 9995-10004	5.7	36
53	High variability in quorum quenching and growth inhibition by furanone C-30 in Pseudomonas aeruginosa clinical isolates from cystic fibrosis patients. *Pathogens and Disease*, **2015**, 73, ftv040	4.2	37
52	Theoretical analysis of the cost of antagonistic activity for aquatic bacteria in oligotrophic environments. *Frontiers in Microbiology*, **2015**, 6, 490	5.7	9
51	RNA structures are involved in the thermoregulation of bacterial virulence-associated traits. *Trends in Microbiology*, **2015**, 23, 509-18	12.4	22
50	Strong seed-bank effects in bacterial evolution. *Journal of Theoretical Biology*, **2014**, 356, 62-70	2.3	14
49	Regulation of Pseudomonas aeruginosa virulence factors by two novel RNA thermometers. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15562-7	11.5	57
48	The effect of specific rhlA-las-box mutations on DNA binding and gene activation by Pseudomonas aeruginosa quorum-sensing transcriptional regulators RhlR and LasR. *FEMS Microbiology Letters*, **2014**, 356, 217-25	2.9	7
47	Pseudomonas aeruginosa clinical and environmental isolates constitute a single population with high phenotypic diversity. *BMC Genomics*, **2014**, 15, 318	4.5	67
46	Lipoprotein N-acyl transferase (Lnt1) is dispensable for protein O-mannosylation by Streptomyces coelicolor. *FEMS Microbiology Letters*, **2014**, 350, 72-82	2.9	4
45	Two-role model of an interaction network of free-living □proteobacteria from an oligotrophic environment. *Environmental Microbiology*, **2014**, 16, 1366-77	5.2	20

44	The Pseudomonas aeruginosa rmlBDAC operon, encoding dTDP-L-rhamnose biosynthetic enzymes, is regulated by the quorum-sensing transcriptional regulator RhlR and the alternative sigma factor S. *Microbiology (United Kingdom)*, **2012**, 158, 908-916	2.9	40
43	Genetic and phenotypic characterization of a Pseudomonas aeruginosa population with high frequency of genomic islands. *PLoS ONE*, **2012**, 7, e37459	3.7	17
42	Characterization of a novel biosurfactant producing Pseudomonas koreensis lineage that is endemic to Cuatro Ci?egas Basin. *Systematic and Applied Microbiology*, **2011**, 34, 531-5	4.2	22
41	Biosurfactants: A General Overview. *Microbiology Monographs*, **2011**, 1-11	0.8	46
40	Transcriptional regulation of Pseudomonas aeruginosa rhlR: role of the CRP orthologue Vfr (virulence factor regulator) and quorum-sensing regulators LasR and RhlR. *Microbiology (United Kingdom)*, **2011**, 157, 2545-2555	2.9	44
39	Rhamnolipids: Production in bacteria other than Pseudomonas aeruginosa. *European Journal of Lipid Science and Technology*, **2010**, 112, 1082-1087	3	70
38	Monorhamnolipids and 3-(3-hydroxyalkanoyloxy)alkanoic acids (HAAs) production using Escherichia coli as a heterologous host. *Applied Microbiology and Biotechnology*, **2006**, 73, 187-94	5.7	81
37	Is Pseudomonas aeruginosa only "sensing quorum"?. *Critical Reviews in Microbiology*, **2005**, 31, 171-82	7.8	35
36	Production of rhamnolipids by Pseudomonas aeruginosa. *Applied Microbiology and Biotechnology*, **2005**, 68, 718-25	5.7	334
35	The Pseudomonas aeruginosa RhlA enzyme is involved in rhamnolipid and polyhydroxyalkanoate production. *Journal of Industrial Microbiology and Biotechnology*, **2005**, 32, 675-7	4.2	48
34	Biosynthesis of Rhamnolipids **2004**, 173-189		8
33	Characterization of theAzotobacter vinelandii algCgene involved in alginate and lipopolysaccharide production. *FEMS Microbiology Letters*, **2004**, 238, 199-206	2.9	24
32	Expression of cholera toxin under non-AKI conditions in Vibrio cholerae El Tor induced by increasing the exposed surface of cultures. *Journal of Bacteriology*, **2004**, 186, 1355-61	3.5	16
31	Characterization of the Azotobacter vinelandii algC gene involved in alginate and lipopolysaccharide production. *FEMS Microbiology Letters*, **2004**, 238, 199-206	2.9	28
30	The Pseudomonas aeruginosa rhlAB operon is not expressed during the logarithmic phase of growth even in the presence of its activator RhlR and the autoinducer N-butyryl-homoserine lactone. *Journal of Bacteriology*, **2003**, 185, 377-80	3.5	50
29	Mechanism of Pseudomonas aeruginosa RhlR transcriptional regulation of the rhlAB promoter. *Journal of Bacteriology*, **2003**, 185, 5976-83	3.5	110
28	Transcriptional regulation of Pseudomonas aeruginosa rhlR, encoding a quorum-sensing regulatory protein. *Microbiology (United Kingdom)*, **2003**, 149, 3073-3081	2.9	108
27	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. *Applied Microbiology and Biotechnology*, **2002**, 59, 545-50	5.7	2

26	Characterization of the lipA gene encoding the major lipase from Pseudomonas aeruginosa strain IGB83. *Applied Microbiology and Biotechnology*, **2001**, 56, 731-5	5.7	14
25	Cloning and functional characterization of the Pseudomonas aeruginosa rhlC gene that encodes rhamnosyltransferase 2, an enzyme responsible for di-rhamnolipid biosynthesis. *Molecular Microbiology*, **2001**, 40, 708-18	4.1	207
24	The pseudomonas aeruginosa motR gene involved in regulation of bacterial motility. *FEMS Microbiology Letters*, **2000**, 184, 57-62	2.9	9
23	Degradation of the methyl substituted alkene, citronellol, by Pseudomonas aeruginosa, wild type and mutant strains. *Biotechnology Letters*, **2000**, 22, 235-237	3	5
22	Pseudomonas aeruginosa rhamnolipids: biosynthesis and potential applications. *Applied Microbiology and Biotechnology*, **2000**, 54, 625-33	5.7	430
21	Role of Azotobacter vinelandii mucA and mucC gene products in alginate production. *Journal of Bacteriology*, **2000**, 182, 6550-6	3.5	38
20	Inactivation of the ampDE operon increases transcription of algD and affects morphology and encystment of Azotobacter vinelandii. *Journal of Bacteriology*, **2000**, 182, 4829-35	3.5	17
19	The Pseudomonas aeruginosa hscA gene encodes Hsc66, a DnaK homologue. *Microbiology (United Kingdom)*, **2000**, 146 (Pt 6), 1429-1435	2.9	8
18	Evaluation of the role of recA protein in plant virulence with recA mutants of Xanthomonas campestris pv. campestris. *Molecular Plant-Microbe Interactions*, **1997**, 10, 911-6	3.6	7
17	The Azotobacter vinelandii alg8 and alg44 genes are essential for alginate synthesis and can be transcribed from an algD-independent promoter. *Gene*, **1997**, 199, 271-7	3.8	37
16	Selection and partial characterization of a Pseudomonas aeruginosa mono-rhamnolipid deficient mutant. *FEMS Microbiology Letters*, **1997**, 153, 279-85	2.9	23
15	Isolation and characterization of an Azotobacter vinelandii algK mutant. *FEMS Microbiology Letters*, **1997**, 156, 101-6	2.9	20
14	Evaluation of the biological containment system based on the Escherichia coli gef gene in Pseudomonas aeruginosa W51D. *Applied Microbiology and Biotechnology*, **1996**, 46, 549-53	5.7	7
13	Characterization of the genes coding for the putative sigma factor AlgU and its regulators MucA, MucB, MucC, and MucD in Azotobacter vinelandii and evaluation of their roles in alginate biosynthesis. *Journal of Bacteriology*, **1996**, 178, 1800-8	3.5	82
12	Characterization of the gene coding for GDP-mannose dehydrogenase (algD) from Azotobacter vinelandii. *Journal of Bacteriology*, **1996**, 178, 1793-9	3.5	76
11	Xanthomonas campestris as a host for the production of recombinantPseudomonas aeruginosa lipase. *Journal of Industrial Microbiology*, **1996**, 16, 22-28		7
10	Selection and preliminary characterization of a Pseudomonas aeruginosa strain mineralizing selected isomers in a branchedchain dodecylbenzenesulphonate mixture. *World Journal of Microbiology and Biotechnology*, **1996**, 12, 367-72	4.4	6
9	Genetic analysis of the transcriptional arrangement of Azotobacter vinelandii alginate biosynthetic genes: identification of two independent promoters. *Molecular Microbiology*, **1996**, 21, 449-57	4.1	45

8	Biochemical characterization of the lipolytic activity of pseudomonas aeruginosa IGB 83. *Process Biochemistry*, **1994**, 29, 207-212	4.8	15
7	Pseudomonas lipases: molecular genetics and potential industrial applications. *Critical Reviews in Microbiology*, **1994**, 20, 95-105	7.8	27
6	Genetic stability and xanthan gum production in Xanthomonas campestris pv. campestris NRRL B1459. *Molecular Microbiology*, **1993**, 8, 1053-61	4.1	12
5	Formation of Rhizobium phaseoli symbiotic plasmids by genetic recombination. *Molecular Microbiology*, **1991**, 5, 909-16	4.1	5
4	Partial deletion of the Rhizobium phaseoli CFN23 symbiotic plasmid implies a concomitant amplification of plasmid DNA sequences. *Molecular Microbiology*, **1991**, 5, 89-95	4.1	1
3	Isolation from soil of Rhizobium leguminosarum lacking symbiotic information. *Canadian Journal of Microbiology*, **1989**, 35, 464-468	3.2	46
2	Genetic rearrangements of a Rhizobium phaseoli symbiotic plasmid. *Journal of Bacteriology*, **1986**, 167, 487-91	3.5	63
1	The Pseudomonas aeruginosa algC gene product participates in rhamnolipid biosynthesis		2