

# Gloria SoberÃ<sup>3</sup>n-ChÃjvez

## List of Publications by Year in descending order

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82  
papers

3,497  
citations

186254

28  
h-index

149686

56  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3244  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Pseudomonas aeruginosa</i> rhamnolipids: biosynthesis and potential applications. <i>Applied Microbiology and Biotechnology</i> , 2000, 54, 625-633.	3.6	488
2	Production of rhamnolipids by <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 718-725.	3.6	380
3	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, 708-718.	2.5	237
4	Mechanism of <i>Pseudomonas aeruginosa</i> RhIR Transcriptional Regulation of the rhIAB Promoter. <i>Journal of Bacteriology</i> , 2003, 185, 5976-5983.	2.2	136
5	Transcriptional regulation of <i>Pseudomonas aeruginosa</i> rhIR, encoding a quorum-sensing regulatory protein. <i>Microbiology (United Kingdom)</i> , 2003, 149, 3073-3081.	1.8	118
6	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, 187-194.	3.6	100
7	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, 1800-1808.	2.2	95
8	Characterization of the gene coding for GDP-mannose dehydrogenase (algD) from <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 1996, 178, 1793-1799.	2.2	88
9	Rhamnolipids: Production in bacteria other than <i>Pseudomonas aeruginosa</i> . <i>European Journal of Lipid Science and Technology</i> , 2010, 112, 1082-1087.	1.5	85
10	<i>Pseudomonas aeruginosa</i> clinical and environmental isolates constitute a single population with high phenotypic diversity. <i>BMC Genomics</i> , 2014, 15, 318.	2.8	85
11	The third quorum-sensing system of <i>Pseudomonas aeruginosa</i> : <i>Pseudomonas</i> quinolone signal and the enigmatic PqsE protein. <i>Journal of Medical Microbiology</i> , 2020, 69, 25-34.	1.8	79
12	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, 15562-15567.	7.1	77
13	Genetic rearrangements of a <i>Rhizobium phaseoli</i> symbiotic plasmid. <i>Journal of Bacteriology</i> , 1986, 167, 487-491.	2.2	71
14	Rhamnolipids produced by <i>Pseudomonas</i> : from molecular genetics to the market. <i>Microbial Biotechnology</i> , 2021, 14, 136-146.	4.2	61
15	Biosurfactants: A General Overview. <i>Microbiology Monographs</i> , 2011, , 1-11.	0.6	58
16	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.	2.0	57
17	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, 377-380.	2.2	55
18	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, 449-457.	2.5	54

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19	The <i>Pseudomonas aeruginosa</i> RhlA enzyme is involved in rhamnolipid and polyhydroxyalkanoate production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005, 32, 675-677.	3.0	52
20	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> , 2010, 150, 1061-1070.	5.10	50
21	Isolation from soil of <i>Rhizobium leguminosarum</i> lacking symbiotic information. <i>Canadian Journal of Microbiology</i> , 1989, 35, 464-468.	1.7	48
22	<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.	3.6	47
23	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 $\sigma^{54}$ . <i>Microbiology (United Kingdom)</i> , 2012, 158, 908-916.	1.8	46
24	Role of <i>Azotobacter vinelandii</i> mucA and mucC Gene Products in Alginate Production. <i>Journal of Bacteriology</i> , 2000, 182, 6550-6556.	2.2	43
25	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, 271-277.	2.2	41
26	Is <i>Pseudomonas aeruginosa</i> Only a Quorum-Sensing Quorum-Sensing? <i>Critical Reviews in Microbiology</i> , 2005, 31, 171-182.	6.1	35
27	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.	1.8	35
28	<i>Pseudomonas</i> Lipases: Molecular Genetics and Potential Industrial Applications. <i>Critical Reviews in Microbiology</i> , 1994, 20, 95-105.	6.1	34
29	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.	3.5	32
30	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, .	2.2	32
31	Two role model of an interaction network of free-living $\beta$ -proteobacteria from an oligotrophic environment. <i>Environmental Microbiology</i> , 2014, 16, 1366-1377.	3.8	31
32	Selection and partial characterization of a <i>Pseudomonas aeruginosa</i> mono-rhamnolipid deficient mutant. <i>FEMS Microbiology Letters</i> , 2006, 153, 279-285.	1.8	30
33	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.	2.1	30
34	Characterization of the gene involved in alginate and lipopolysaccharide production. <i>FEMS Microbiology Letters</i> , 2004, 238, 199-206.	1.8	29
35	Characterization of the <i>Azotobacter vinelandii</i> algC gene involved in alginate and lipopolysaccharide production. <i>FEMS Microbiology Letters</i> , 2004, 238, 199-206.	1.8	27
36	Characterization of a novel biosurfactant producing <i>Pseudomonas koreensis</i> lineage that is endemic to Cuatro CiÃ©negas Basin. <i>Systematic and Applied Microbiology</i> , 2011, 34, 531-535.	2.8	26

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37	<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, .	1.8	26
38	Variability of Bacterial Essential Genes Among Closely Related Bacteria: The Case of <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1059.	3.5	26
39	RNA structures are involved in the thermoregulation of bacterial virulence-associated traits. <i>Trends in Microbiology</i> , 2015, 23, 509-518.	7.7	25
40	Isolation and characterization of an <i>Azotobacter vinelandii</i> algK mutant. <i>FEMS Microbiology Letters</i> , 2006, 156, 101-106.	1.8	24
41	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, 1355-1361.	2.2	22
42	Strong seed-bank effects in bacterial evolution. <i>Journal of Theoretical Biology</i> , 2014, 356, 62-70.	1.7	21
43	Genetic and Phenotypic Characterization of a <i>Pseudomonas aeruginosa</i> Population with High Frequency of Genomic Islands. <i>PLoS ONE</i> , 2012, 7, e37459.	2.5	20
44	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.	2.2	20
45	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, 4829-4835.	2.2	19
46	Role of $\beta$ -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.	3.6	18
47	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, .	0.8	17
48	Rhamnolipids stabilize quorum sensing mediated cooperation in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	17
49	Genetic stability and xanthan gum production in <i>Xanthomonas campestris</i> pv. <i>campestris</i> NRRL B1459. <i>Molecular Microbiology</i> , 1993, 8, 1053-1061.	2.5	15
50	Biochemical characterization of the lipolytic activity of <i>pseudomonas aeruginosa</i> IGB 83. <i>Process Biochemistry</i> , 1994, 29, 207-212.	3.7	15
51	The <i>Pseudomonas aeruginosa</i> motR gene involved in regulation of bacterial motility. <i>FEMS Microbiology Letters</i> , 2000, 184, 57-62.	1.8	15
52	Characterization of the lipA gene encoding the major lipase from <i>Pseudomonas aeruginosa</i> strain IGB83. <i>Applied Microbiology and Biotechnology</i> , 2001, 56, 731-735.	3.6	15
53	PqsR-independent quorum-sensing response of <i>Pseudomonas aeruginosa</i> ATCC 9027 outlier strain reveals new insights on the PqsE effect on RhlR activity. <i>Molecular Microbiology</i> , 2021, 116, 1113-1123.	2.5	15
54	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, 217-225.	1.8	12

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55	The outlier <i>Pseudomonas aeruginosa</i> strain ATCC 9027 harbors a defective LasR quorum-sensing transcriptional regulator. <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	12
56	Virulence factors regulation by the quorum-sensing and Rsm systems in the marine strain <i>Pseudomonas aeruginosa</i> ID4365, a natural mutant in <i>lasR</i> . <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	12
57	Selection and preliminary characterization of a <i>Pseudomonas aeruginosa</i> strain mineralizing selected isomers in a branchedchain dodecylbenzenesulphonate mixture. <i>World Journal of Microbiology and Biotechnology</i> , 1996, 12, 367-372.	3.6	10
58	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.	3.8	10
59	Biosynthesis of Rhamnolipids. , 2004, , 173-189.		9
60	Theoretical analysis of the cost of antagonistic activity for aquatic bacteria in oligotrophic environments. <i>Frontiers in Microbiology</i> , 2015, 6, 490.	3.5	9
61	The <i>Pseudomonas aeruginosa</i> hscA gene encodes Hsc66, a DnaK homologue The GenBank accession number for the sequence of the W51D chromosomal region including the hscB, hscA and fdxA genes is AF096864.. <i>Microbiology (United Kingdom)</i> , 2000, 146, 1429-1435.	1.8	9
62	Tracking the genome of four <i>Pseudomonas aeruginosa</i> isolates that have a defective Las quorum-sensing system, but are still virulent. <i>Access Microbiology</i> , 2020, 2, acmi000132.	0.5	9
63	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, 911-916.	2.6	8
64	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, 549-553.	3.6	7
65	<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.	0.9	7
66	Formation of <i>Rhizobium</i> phaseolisympiotic plasmids by genetic recombination. <i>Molecular Microbiology</i> , 1991, 5, 909-916.	2.5	6
67	A Novel Two-Component System, Encoded by the sco5282/sco5283 Genes, Affects <i>Streptomyces coelicolor</i> Morphology in Liquid Culture. <i>Frontiers in Microbiology</i> , 2019, 10, 1568.	3.5	6
68	Evolution of bacteria seen through their essential genes: the case of <i>Pseudomonas aeruginosa</i> and <i>Azotobacter vinelandii</i> . <i>Microbiology (United Kingdom)</i> , 2019, 165, 976-984.	1.8	6
69	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 235-237.	2.2	5
70	Complete Genome Sequences of Four Extensively Drug-Resistant <i>Pseudomonas aeruginosa</i> Strains, Isolated from Adults with Ventilator-Associated Pneumonia at a Tertiary Referral Hospital in Mexico City. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
71	Editorial: Biosurfactants: New Insights in Their Biosynthesis, Production and Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 769899.	4.1	5
72	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.	1.8	4

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73	Complete Genome Sequences of Two <i>Pseudomonas aeruginosa</i> Strains Isolated from Children with Bacteremia. <i>Genome Announcements</i> , 2017, 5, .	0.8	4
74	Vfr or CyaB promote the expression of the pore-forming toxin exlBA operon in <i>Pseudomonas aeruginosa</i> ATCC 9027 without increasing its virulence in mice. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	1.8	4
75	The <i>Pseudomonas aeruginosa</i> algC gene product participates in rhamnolipid biosynthesis. <i>FEMS Microbiology Letters</i> , 1999, 179, 85-90.	1.8	3
76	Overview on Glycosylated Lipids Produced by Bacteria and Fungi: Rhamno-, Sophoro-, Mannosylerythritol and Cellobiose Lipids. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2022, , 73-122.	1.1	3
77	Tracking the Origins of <i>Pseudomonas aeruginosa</i> Phylogroups by Diversity and Evolutionary Analysis of Important Pathogenic Marker Genes. <i>Diversity</i> , 2022, 14, 345.	1.7	3
78	Partial deletion of the <i>Rhizobium phaseoli</i> CFN23 symbiotic plasmid implies a concomitant amplification of plasmid DNA sequences. <i>Molecular Microbiology</i> , 1991, 5, 89-95.	2.5	2
79	Cloning and characterization of a FAD-monoxygenase gene ( <i>cadA</i> ) involved in degradation of chloranilic acid (2,5-dichloro-3,6-dihydroxybenzo-1,4-quinone) in <i>Pseudomonas putida</i> TQ07. <i>Applied Microbiology and Biotechnology</i> , 2002, 59, 545-550.	3.6	2
80	Presencia de genes <i>rhIAB</i> , <i>rhIR</i> y <i>rhIC</i> en <i>Pseudomonas aeruginosa</i> nativas sobreproductoras de rhamnolípidos. <i>Revista Peruana De Biología</i> , 2017, 24, 293.	0.3	0
81	The <i>Escherichia coli</i> <i>bcsB</i> gene is a conditional essential gene in the context of functional cellulose synthesis. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	0
82	The Evolution of Bacteria Can Produce Chimeric Creatures: The Case of <i>Azotobacter vinelandii</i> . <i>Frontiers for Young Minds</i> , 2019, 7, .	0.8	0