

# Karina Bivar Xavier

## List of Publications by Year in descending order

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54  
papers

5,766  
citations

136950

32  
h-index

168389

53  
g-index

64  
all docs

64  
docs citations

64  
times ranked

5662  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Multiple Signaling Systems Regulating Virulence in <i>Pseudomonas aeruginosa</i> . <i>Microbiology and Molecular Biology Reviews</i> , 2012, 76, 46-65.	6.6	619
2	LuxS quorum sensing: more than just a numbers game. <i>Current Opinion in Microbiology</i> , 2003, 6, 191-197.	5.1	616
3	<i>Salmonella typhimurium</i> Recognizes a Chemically Distinct Form of the Bacterial Quorum-Sensing Signal AI-2. <i>Molecular Cell</i> , 2004, 15, 677-687.	9.7	502
4	AI-2-mediated signalling in bacteria. <i>FEMS Microbiology Reviews</i> , 2013, 37, 156-181.	8.6	443
5	Regulation of Uptake and Processing of the Quorum-Sensing Autoinducer AI-2 in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2005, 187, 238-248.	2.2	379
6	Manipulation of the Quorum Sensing Signal AI-2 Affects the Antibiotic-Treated Gut Microbiota. <i>Cell Reports</i> , 2015, 10, 1861-1871.	6.4	313
7	Interference with AI-2-mediated bacterial cell-cell communication. <i>Nature</i> , 2005, 437, 750-753.	27.8	268
8	Positive Epistasis Drives the Acquisition of Multidrug Resistance. <i>PLoS Genetics</i> , 2009, 5, e1000578.	3.5	217
9	Comparative analysis of Embden-Meyerhof and Entner-Doudoroff glycolytic pathways in hyperthermophilic archaea and the bacterium <i>Thermotoga</i> . <i>Archives of Microbiology</i> , 1997, 167, 217-232.	2.2	207
10	The First Steps of Adaptation of <i>Escherichia coli</i> to the Gut Are Dominated by Soft Sweeps. <i>PLoS Genetics</i> , 2014, 10, e1004182.	3.5	172
11	Recovery of the Gut Microbiota after Antibiotics Depends on Host Diet, Community Context, and Environmental Reservoirs. <i>Cell Host and Microbe</i> , 2019, 26, 650-665.e4.	11.0	166
12	Phosphorylation and Processing of the Quorum-Sensing Molecule Autoinducer-2 in Enteric Bacteria. <i>ACS Chemical Biology</i> , 2007, 2, 128-136.	3.4	153
13	Archaeal Binding Protein-Dependent ABC Transporter: Molecular and Biochemical Analysis of the Trehalose/Maltose Transport System of the Hyperthermophilic Archaeon <i>Thermococcus litoralis</i> . <i>Journal of Bacteriology</i> , 1998, 180, 680-689.	2.2	116
14	High-affinity maltose/trehalose transport system in the hyperthermophilic archaeon <i>Thermococcus litoralis</i> . <i>Journal of Bacteriology</i> , 1996, 178, 4773-4777.	2.2	109
15	The role of small RNAs in quorum sensing. <i>Current Opinion in Microbiology</i> , 2007, 10, 189-198.	5.1	103
16	Identification of Functional LsrB-Like Autoinducer-2 Receptors. <i>Journal of Bacteriology</i> , 2009, 191, 6975-6987.	2.2	86
17	Maltose Metabolism in the Hyperthermophilic Archaeon <i>Thermococcus litoralis</i> : Purification and Characterization of Key Enzymes. <i>Journal of Bacteriology</i> , 1999, 181, 3358-3367.	2.2	80
18	<i>Sinorhizobium meliloti</i> , a bacterium lacking the autoinducer-2 (AI-2) synthase, responds to AI-2 supplied by other bacteria. <i>Molecular Microbiology</i> , 2008, 70, 1223-1235.	2.5	77

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19	Challenges in Clinical Metaproteomics Highlighted by the Analysis of Acute Leukemia Patients with Gut Colonization by Multidrug-Resistant Enterobacteriaceae. <i>Proteomes</i> , 2019, 7, 2.	3.5	71
20	Phosphoenolpyruvate phosphotransferase system regulates detection and processing of the quorum sensing signal autoinducer-2. <i>Molecular Microbiology</i> , 2012, 84, 93-104.	2.5	67
21	<i>Klebsiella michiganensis</i> transmission enhances resistance to Enterobacteriaceae gut invasion by nutrition competition. <i>Nature Microbiology</i> , 2020, 5, 630-641.	13.3	67
22	Maintenance of Microbial Cooperation Mediated by Public Goods in Single- and Multiple-Trait Scenarios. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	61
23	Cheating on Cheaters Stabilizes Cooperation in <i>Pseudomonas aeruginosa</i> . <i>Current Biology</i> , 2018, 28, 2070-2080.e6.	3.9	61
24	Specific Eco-evolutionary Contexts in the Mouse Gut Reveal <i>Escherichia coli</i> Metabolic Versatility. <i>Current Biology</i> , 2020, 30, 1049-1062.e7.	3.9	60
25	Chemical conversations in the gut microbiota. <i>Gut Microbes</i> , 2016, 7, 163-170.	9.8	57
26	Processing the Interspecies Quorum-sensing Signal Autoinducer-2 (AI-2). <i>Journal of Biological Chemistry</i> , 2011, 286, 18331-18343.	3.4	55
27	Methods for Analysis of Bacterial Autoinducer-2 Production. <i>Current Protocols in Microbiology</i> , 2011, 23, Unit1C.1.	6.5	51
28	A Mutational Hotspot and Strong Selection Contribute to the Order of Mutations Selected for during <i>Escherichia coli</i> Adaptation to the Gut. <i>PLoS Genetics</i> , 2016, 12, e1006420.	3.5	47
29	Different glycolytic pathways for glucose and fructose in the halophilic archaeon <i>Halococcus saccharolyticus</i> . <i>Archives of Microbiology</i> , 2001, 175, 52-61.	2.2	46
30	An efficient synthesis of the precursor of AI-2, the signalling molecule for inter-species quorum sensing. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1236-1241.	3.0	44
31	Diet leaves a genetic signature in a keystone member of the gut microbiota. <i>Cell Host and Microbe</i> , 2022, 30, 183-199.e10.	11.0	43
32	LsrF, a coenzyme A-dependent thiolase, catalyzes the terminal step in processing the quorum sensing signal autoinducer-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14235-14240.	7.1	42
33	Glucose fermentation to acetate and alanine in resting cell suspensions of <i>Pyrococcus furiosus</i> : Proposal of a novel glycolytic pathway based on <sup>13</sup> C labelling data and enzyme activities. <i>FEMS Microbiology Letters</i> , 1994, 121, 107-114.	1.8	38
34	Kinetic analysis by in vivo <sup>31</sup> P nuclear magnetic resonance of internal Pi during the uptake of sn-glycerol-3-phosphate by the pho regulon-dependent Ugp system and the glp regulon-dependent GlpT system. <i>Journal of Bacteriology</i> , 1995, 177, 699-704.	2.2	36
35	Bacterial interspecies quorum sensing in the mammalian gut microbiota. <i>Comptes Rendus - Biologies</i> , 2018, 341, 297-299.	0.2	32
36	Demonstration of a Novel Glycolytic Pathway in the Hyperthermophilic Archaeon <i>Thermococcus zilligii</i> by <sup>13</sup> C-Labeling Experiments and Nuclear Magnetic Resonance Analysis. <i>Journal of Bacteriology</i> , 2000, 182, 4632-4636.	2.2	28

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37	Signal Integration in Quorum Sensing Enables Cross-Species Induction of Virulence in <i>Pectobacterium wasabiae</i> . <i>MBio</i> , 2017, 8, .	4.1	28
38	Quantifying rapid bacterial evolution and transmission within the mouse intestine. <i>Cell Host and Microbe</i> , 2021, 29, 1454-1468.e4.	11.0	27
39	Natural Genome Diversity of AI-2 Quorum Sensing in <i>Escherichia coli</i> : Conserved Signal Production but Labile Signal Reception. <i>Genome Biology and Evolution</i> , 2013, 5, 16-30.	2.5	26
40	Identification of novel autoinducer-2 receptors in Clostridia reveals plasticity in the binding site of the LsrB receptor family. <i>Journal of Biological Chemistry</i> , 2019, 294, 4450-4463.	3.4	24
41	Stereochemical diversity of AI-2 analogs modulates quorum sensing in <i>Vibrio harveyi</i> and <i>Escherichia coli</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 249-256.	3.0	23
42	The Trk Potassium Transporter Is Required for RsmB-Mediated Activation of Virulence in the Phytopathogen <i>Pectobacterium wasabiae</i> . <i>Journal of Bacteriology</i> , 2016, 198, 248-255.	2.2	21
43	The Crystal Structure of the <i>Escherichia coli</i> Autoinducer-2 Processing Protein LsrF. <i>PLoS ONE</i> , 2009, 4, e6820.	2.5	14
44	Synthesis of d-desthiobiotin-AI-2 as a novel chemical probe for autoinducer-2 quorum sensing receptors. <i>Bioorganic Chemistry</i> , 2019, 92, 103200.	4.1	12
45	<i>Erwinia carotovora</i> Quorum Sensing System Regulates Host-Specific Virulence Factors and Development Delay in <i>Drosophila melanogaster</i> . <i>MBio</i> , 2020, 11, .	4.1	9
46	Synthesis and biological activity of a potent optically pure autoinducer-2 quorum sensing agonist. <i>Bioorganic Chemistry</i> , 2019, 85, 75-81.	4.1	6
47	Can chatter between microbes prevent cholera?. <i>Trends in Microbiology</i> , 2014, 22, 660-662.	7.7	5
48	Microbiome-diet interactions drive antibiotic efficacy. <i>Nature Microbiology</i> , 2021, 6, 824-825.	13.3	5
49	Recovery of the Gut Microbiota after Antibiotics Depends on Host Diet and Environmental Reservoirs. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
50	<i>Escherichia coli</i> adaptation to the gut environment: a constant fight for survival. <i>Future Microbiology</i> , 2014, 9, 1235-1238.	2.0	3
51	High Heterogeneity of Multidrug-Resistant <i>Enterobacteriaceae</i> Fecal Levels in Hospitalized Patients Is Partially Driven by Intravenous $\beta$ -Lactams. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	3
52	An Efficient Synthesis of Optically Active [4- $^{13}\text{C}$ ] Labelled Quorum Sensing Signal Autoinducer-2. <i>Molecules</i> , 2021, 26, 369.	3.8	1
53	Phosphoenolpyruvate phosphotransferase system regulates detection and processing of the quorum sensing signal autoinducer-2. <i>Molecular Microbiology</i> , 2012, 85, 815-815.	2.5	0
54	Bacterial Call to Arms for Warfare at the Infection Site. <i>Cell Host and Microbe</i> , 2018, 23, 285-287.	11.0	0