Karina Bivar Xavier

List of Publications by Year
in descending order

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	Diet leaves a genetic signature in a keystone member of the gut microbiota. Cell Host and Microbe, 2022, 30, 183-199.e10.	11.0	43
2	An Efficient Synthesis of Optically Active [4-13C] Labelled Quorum Sensing Signal Autoinducer-2. Molecules, 2021, 26, 369.	3.8	1
3	Microbiomeâ€“diet interactions drive antibiotic efficacy. Nature Microbiology, 2021, 6, 824-825.	13.3	5
4	Quantifying rapid bacterial evolution and transmission within the mouse intestine. Cell Host and Microbe, 2021, 29, 1454-1468.e4.	11.0	27
5	High Heterogeneity of Multidrug-Resistant Enterobacteriaceae Fecal Levels in Hospitalized Patients Is Partially Driven by Intravenous Î²-Lactams. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	3
6	Specific Eco-evolutionary Contexts in the Mouse Gut Reveal Escherichia coli Metabolic Versatility. Current Biology, 2020, 30, 1049-1062.e7.	3.9	60
7	Erwinia carotovora Quorum Sensing System Regulates Host-Specific Virulence Factors and Development Delay in Drosophila melanogaster. MBio, 2020, 11, .	4.1	9
8	Klebsiella michiganensis transmission enhances resistance to Enterobacteriaceae gut invasion by nutrition competition. Nature Microbiology, 2020, 5, 630-641.	13.3	67
9	Synthesis of d-desthiobiotin-AI-2 as a novel chemical probe for autoinducer-2 quorum sensing receptors. Bioorganic Chemistry, 2019, 92, 103200.	4.1	12
10	Recovery of the Gut Microbiota after Antibiotics Depends on Host Diet, Community Context, and Environmental Reservoirs. Cell Host and Microbe, 2019, 26, 650-665.e4.	11.0	166
11	Challenges in Clinical Metaproteomics Highlighted by the Analysis of Acute Leukemia Patients with Gut Colonization by Multidrug-Resistant Enterobacteriaceae. Proteomes, 2019, 7, 2.	3.5	71
12	Identification of novel autoinducer-2 receptors in Clostridia reveals plasticity in the binding site of the LsrB receptor family. Journal of Biological Chemistry, 2019, 294, 4450-4463.	3.4	24
13	Synthesis and biological activity of a potent optically pure autoinducer-2 quorum sensing agonist. Bioorganic Chemistry, 2019, 85, 75-81.	4.1	6
14	Bacterial interspecies quorum sensing in the mammalian gut microbiota. Comptes Rendus - Biologies, 2018, 341, 297-299.	0.2	32
15	Bacterial Call to Arms for Warfare at the Infection Site. Cell Host and Microbe, 2018, 23, 285-287.	11.0	0
16	Cheating on Cheaters Stabilizes Cooperation in Pseudomonas aeruginosa. Current Biology, 2018, 28, 2070-2080.e6.	3.9	61
17	Signal Integration in Quorum Sensing Enables Cross-Species Induction of Virulence in Pectobacterium wasabiae. MBio, 2017, 8, .	4.1	28
18	Maintenance of Microbial Cooperation Mediated by Public Goods in Single- and Multiple-Trait Scenarios. Journal of Bacteriology, 2017, 199, .	2.2	61

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19	A Mutational Hotspot and Strong Selection Contribute to the Order of Mutations Selected for during Escherichia coli Adaptation to the Gut. PLoS Genetics, 2016, 12, e1006420.	3.5	47
20	Chemical conversations in the gut microbiota. Gut Microbes, 2016, 7, 163-170.	9.8	57
21	The Trk Potassium Transporter Is Required for RsmB-Mediated Activation of Virulence in the Phytopathogen Pectobacterium wasabiae. Journal of Bacteriology, 2016, 198, 248-255.	2.2	21
22	Manipulation of the Quorum Sensing Signal AI-2 Affects the Antibiotic-Treated Gut Microbiota. Cell Reports, 2015, 10, 1861-1871.	6.4	313
23	The First Steps of Adaptation of Escherichia coli to the Gut Are Dominated by Soft Sweeps. PLoS Genetics, 2014, 10, e1004182.	3.5	172
24	LsrF, a coenzyme A-dependent thiolase, catalyzes the terminal step in processing the quorum sensing signal autoinducer-2. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14235-14240.	7.1	42
25	Can chatter between microbes prevent cholera?. Trends in Microbiology, 2014, 22, 660-662.	7.7	5
26	Escherichia coli adaptation to the gut environment: a constant fight for survival. Future Microbiology, 2014, 9, 1235-1238.	2.0	3
27	AI-2-mediated signalling in bacteria. FEMS Microbiology Reviews, 2013, 37, 156-181.	8.6	443
28	Natural Genome Diversity of AI-2 Quorum Sensing in Escherichia coli: Conserved Signal Production but Labile Signal Reception. Genome Biology and Evolution, 2013, 5, 16-30.	2.5	26
29	Phosphoenolpyruvate phosphotransferase system regulates detection and processing of the quorum sensing signal autoinducer-2. Molecular Microbiology, 2012, 85, 815-815.	2.5	0
30	The Multiple Signaling Systems Regulating Virulence in Pseudomonas aeruginosa. Microbiology and Molecular Biology Reviews, 2012, 76, 46-65.	6.6	619
31	Phosphoenolpyruvate phosphotransferase system regulates detection and processing of the quorum sensing signal autoinducerâ€2. Molecular Microbiology, 2012, 84, 93-104.	2.5	67
32	Stereochemical diversity of AI-2 analogs modulates quorum sensing in Vibrio harveyi and Escherichia coli. Bioorganic and Medicinal Chemistry, 2012, 20, 249-256.	3.0	23
33	Methods for Analysis of Bacterial Autoinducerâ€2 Production. Current Protocols in Microbiology, 2011, 23, Unit1C.1.	6.5	51
34	An efficient synthesis of the precursor of AI-2, the signalling molecule for inter-species quorum sensing. Bioorganic and Medicinal Chemistry, 2011, 19, 1236-1241.	3.0	44
35	Processing the Interspecies Quorum-sensing Signal Autoinducer-2 (AI-2). Journal of Biological Chemistry, 2011, 286, 18331-18343.	3.4	55
36	Positive Epistasis Drives the Acquisition of Multidrug Resistance. PLoS Genetics, 2009, 5, e1000578.	3.5	217

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37	The Crystal Structure of the Escherichia coli Autoinducer-2 Processing Protein LsrF. PLoS ONE, 2009, 4, e6820.	2.5	14
38	Identification of Functional LsrB-Like Autoinducer-2 Receptors. Journal of Bacteriology, 2009, 191, 6975-6987.	2.2	86
39	Sinorhizobium meliloti, a bacterium lacking the autoinducerâ€2 (Aiâ€2) synthase, responds to Aiâ€2 supplied by other bacteria. Molecular Microbiology, 2008, 70, 1223-1235.	2.5	77
40	The role of small RNAs in quorum sensing. Current Opinion in Microbiology, 2007, 10, 189-198.	5.1	103
41	Phosphorylation and Processing of the Quorum-Sensing Molecule Autoinducer-2 in Enteric Bacteria. ACS Chemical Biology, 2007, 2, 128-136.	3.4	153
42	Interference with AI-2-mediated bacterial cellâ€“cell communication. Nature, 2005, 437, 750-753.	27.8	268
43	Regulation of Uptake and Processing of the Quorum-Sensing Autoinducer AI-2 in Escherichia coli. Journal of Bacteriology, 2005, 187, 238-248.	2.2	379
44	Salmonella typhimurium Recognizes a Chemically Distinct Form of the Bacterial Quorum-Sensing Signal AI-2. Molecular Cell, 2004, 15, 677-687.	9.7	502
45	LuxS quorum sensing: more than just a numbers game. Current Opinion in Microbiology, 2003, 6, 191-197.	5.1	616
46	Different glycolytic pathways for glucose and fructose in the halophilic archaeon Halococcus saccharolyticus. Archives of Microbiology, 2001, 175, 52-61.	2.2	46
47	Demonstration of a Novel Glycolytic Pathway in the Hyperthermophilic Archaeon Thermococcus zilligii by13C-Labeling Experiments and Nuclear Magnetic Resonance Analysis. Journal of Bacteriology, 2000, 182, 4632-4636.	2.2	28
48	Maltose Metabolism in the Hyperthermophilic Archaeon Thermococcus litoralis : Purification and Characterization of Key Enzymes. Journal of Bacteriology, 1999, 181, 3358-3367.	2.2	80
49	Archaeal Binding Protein-Dependent ABC Transporter: Molecular and Biochemical Analysis of the Trehalose/Maltose Transport System of the Hyperthermophilic Archaeon Thermococcus litoralis. Journal of Bacteriology, 1998, 180, 680-689.	2.2	116
50	Comparative analysis of Embden-Meyerhof and Entner-Doudoroff glycolytic pathways in hyperthermophilic archaea and the bacterium Thermotoga. Archives of Microbiology, 1997, 167, 217-232.	2.2	207
51	High-affinity maltose/trehalose transport system in the hyperthermophilic archaeon Thermococcus litoralis. Journal of Bacteriology, 1996, 178, 4773-4777.	2.2	109
52	Kinetic analysis by in vivo 31P 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. Journal of Bacteriology, 1995, 177, 699-704.	2.2	36
53	Glucose fermentation to acetate and alanine in resting cell suspensions ofPyrococcus furiosus: Proposal of a novel glycolytic pathway based on13C labelling data and enzyme activities. FEMS Microbiology Letters, 1994, 121, 107-114.	1.8	38
54	Recovery of the Gut Microbiota after Antibiotics Depends on Host Diet and Environmental Reservoirs. SSRN Electronic Journal, 0, , .	0.4	4