

John J Mekalanos

List of Publications by Year in descending order

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78
papers

12,339
citations

50276

46
h-index

82547

72
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79
all docs

79
docs citations

79
times ranked

10691
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA sequence of both chromosomes of the cholera pathogen <i>Vibrio cholerae</i> . <i>Nature</i> , 2000, 406, 477-483.	27.8	1,723
2	Identification of a conserved bacterial protein secretion system in <i>Vibrio cholerae</i> using the <i>Dictyostelium</i> host model system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1528-1533.	7.1	998
3	Quorum-sensing regulators control virulence gene expression in <i>Vibrio cholerae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3129-3134.	7.1	800
4	Cholera toxin genes: nucleotide sequence, deletion analysis and vaccine development. <i>Nature</i> , 1983, 306, 551-557.	27.8	717
5	The Origin of the Haitian Cholera Outbreak Strain. <i>New England Journal of Medicine</i> , 2011, 364, 33-42.	27.0	676
6	A View to a Kill: The Bacterial Type VI Secretion System. <i>Cell Host and Microbe</i> , 2014, 15, 9-21.	11.0	523
7	Tit-for-Tat: Type VI Secretion System Counterattack during Bacterial Cell-Cell Interactions. <i>Cell</i> , 2013, 152, 884-894.	28.9	486
8	PAAR-repeat proteins sharpen and diversify the type VI secretion system spike. <i>Nature</i> , 2013, 500, 350-353.	27.8	466
9	SEDS proteins are a widespread family of bacterial cell wall polymerases. <i>Nature</i> , 2016, 537, 634-638.	27.8	448
10	Bacterial cGAS-like enzymes synthesize diverse nucleotide signals. <i>Nature</i> , 2019, 567, 194-199.	27.8	275
11	Use of signature-tagged transposon mutagenesis to identify <i>Vibrio cholerae</i> genes critical for colonization. <i>Molecular Microbiology</i> , 1998, 27, 797-805.	2.5	261
12	Structure of the Human cGAS-DNA Complex Reveals Enhanced Control of Immune Surveillance. <i>Cell</i> , 2018, 174, 300-311.e11.	28.9	244
13	Tn-Seq Analysis of <i>Vibrio cholerae</i> Intestinal Colonization Reveals a Role for T6SS-Mediated Antibacterial Activity in the Host. <i>Cell Host and Microbe</i> , 2013, 14, 652-663.	11.0	226
14	Regulation, replication, and integration functions of the <i>Vibrio cholerae</i> CTX ϕ are encoded by region RS2. <i>Molecular Microbiology</i> , 1997, 24, 917-926.	2.5	200
15	RNA-Seq-Based Monitoring of Infection-Linked Changes in <i>Vibrio cholerae</i> Gene Expression. <i>Cell Host and Microbe</i> , 2011, 10, 165-174.	11.0	191
16	Distinct roles of an alternative sigma factor during both free-swimming and colonizing phases of the <i>Vibrio cholerae</i> pathogenic cycle. <i>Molecular Microbiology</i> , 1998, 28, 501-520.	2.5	190
17	In Vivo Genetic Analysis of Bacterial Virulence. <i>Annual Review of Microbiology</i> , 1999, 53, 129-154.	7.3	189
18	Genetic Analysis of Anti-Amoebae and Anti-Bacterial Activities of the Type VI Secretion System in <i>Vibrio cholerae</i> . <i>PLoS ONE</i> , 2011, 6, e23876.	2.5	180

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19	A hybrid approach for the automated finishing of bacterial genomes. <i>Nature Biotechnology</i> , 2012, 30, 701-707.	17.5	178
20	Cyclic Dinucleotides and the Innate Immune Response. <i>Cell</i> , 2013, 154, 962-970.	28.9	174
21	TnAraOut, A transposon-based approach to identify and characterize essential bacterial genes. <i>Nature Biotechnology</i> , 2000, 18, 740-745.	17.5	160
22	Antagonism toward the intestinal microbiota and its effect on <i>Vibrio cholerae</i> virulence. <i>Science</i> , 2018, 359, 210-213.	12.6	153
23	Structure and Mechanism of a Cyclic Trinucleotide-Activated Bacterial Endonuclease Mediating Bacteriophage Immunity. <i>Molecular Cell</i> , 2020, 77, 723-733.e6.	9.7	148
24	The Drosophila Immune Deficiency Pathway Modulates Enteroendocrine Function and Host Metabolism. <i>Cell Metabolism</i> , 2018, 28, 449-462.e5.	16.2	143
25	CBASS Immunity Uses CARF-Related Effectors to Sense 3'5'- and 2'5'-Linked Cyclic Oligonucleotide Signals and Protect Bacteria from Phage Infection. <i>Cell</i> , 2020, 182, 38-49.e17.	28.9	137
26	Generation of reactive oxygen species by lethal attacks from competing microbes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2181-2186.	7.1	131
27	Fitness cost of antibiotic susceptibility during bacterial infection. <i>Science Translational Medicine</i> , 2015, 7, 297ra114.	12.4	122
28	Type 6 Secretion System-Mediated Immunity to Type 4 Secretion System-Mediated Gene Transfer. <i>Science</i> , 2013, 342, 250-253.	12.6	120
29	Single amino acid substitutions in the N-terminus of <i>Vibrio cholerae</i> TcpA affect colonization, autoagglutination, and serum resistance. <i>Molecular Microbiology</i> , 1995, 17, 1133-1142.	2.5	115
30	The Contribution of Accessory Toxins of <i>Vibrio cholerae</i> O1 El Tor to the Proinflammatory Response in a Murine Pulmonary Cholera Model. <i>Journal of Experimental Medicine</i> , 2002, 195, 1455-1462.	8.5	109
31	Meeting Cholera's Challenge to Haiti and the World: A Joint Statement on Cholera Prevention and Care. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1145.	3.0	105
32	Metabolic regulation of type III secretion gene expression in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2006, 59, 807-820.	2.5	98
33	Peru-15, a live attenuated oral cholera vaccine, is safe and immunogenic in Bangladeshi toddlers and infants. <i>Vaccine</i> , 2007, 25, 231-238.	3.8	97
34	Analysis of Clinical and Environmental Strains of Nontoxigenic <i>Vibrio cholerae</i> for Susceptibility to CTX ϕ : Molecular Basis for Origination of New Strains with Epidemic Potential. <i>Infection and Immunity</i> , 1998, 66, 5819-5825.	2.2	97
35	Secretome Analysis of <i>Vibrio cholerae</i> Type VI Secretion System Reveals a New Effector-Immunity Pair. <i>MBio</i> , 2015, 6, e00075.	4.1	96
36	Exopolysaccharide protects <i>Vibrio cholerae</i> from exogenous attacks by the type 6 secretion system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7997-8002.	7.1	94

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37	The Acetate Switch of an Intestinal Pathogen Disrupts Host Insulin Signaling and Lipid Metabolism. <i>Cell Host and Microbe</i> , 2014, 16, 592-604.	11.0	92
38	<i>Vibrio cholerae</i> T3SS Effector VopE Modulates Mitochondrial Dynamics and Innate Immune Signaling by Targeting Miro GTPases. <i>Cell Host and Microbe</i> , 2014, 16, 581-591.	11.0	91
39	Microbiota-targeted maternal antibodies protect neonates from enteric infection. <i>Nature</i> , 2020, 577, 543-548.	27.8	90
40	Cholera toxin promotes pathogen acquisition of host-derived nutrients. <i>Nature</i> , 2019, 572, 244-248.	27.8	89
41	Quorum Regulated Resistance of <i>Vibrio cholerae</i> against Environmental Bacteriophages. <i>Scientific Reports</i> , 2016, 6, 37956.	3.3	70
42	Emergence of Antimicrobial-Resistant <i>Escherichia coli</i> of Animal Origin Spreading in Humans. <i>Molecular Biology and Evolution</i> , 2016, 33, 898-914.	8.9	65
43	<i>Vibrio cholerae</i> type 6 secretion system effector trafficking in target bacterial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9427-9432.	7.1	61
44	Reactogenicity of live-attenuated <i>Vibrio cholerae</i> vaccines is dependent on flagellins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4359-4364.	7.1	55
45	A live vaccine rapidly protects against cholera in an infant rabbit model. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	55
46	Structure and mutagenic analysis of the lipid II flippase MurJ from <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6709-6714.	7.1	52
47	The Highly Conserved Bacterial RNase YbeY Is Essential in <i>Vibrio cholerae</i> , Playing a Critical Role in Virulence, Stress Regulation, and RNA Processing. <i>PLoS Pathogens</i> , 2014, 10, e1004175.	4.7	51
48	Alarmone Ap4A is elevated by aminoglycoside antibiotics and enhances their bactericidal activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9578-9585.	7.1	47
49	An onboard checking mechanism ensures effector delivery of the type VI secretion system in <i>Vibrio cholerae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23292-23298.	7.1	45
50	Analysis of <i>Vibrio cholerae</i> ToxR function by construction of novel fusion proteins. <i>Molecular Microbiology</i> , 2006, 15, 719-731.	2.5	40
51	Tracking <i>Vibrio cholerae</i> Cell-Cell Interactions during Infection Reveals Bacterial Population Dynamics within Intestinal Microenvironments. <i>Cell Host and Microbe</i> , 2018, 23, 274-281.e2.	11.0	40
52	Sigma E Regulators Control Hemolytic Activity and Virulence in a Shrimp Pathogenic <i>Vibrio harveyi</i> . <i>PLoS ONE</i> , 2012, 7, e32523.	2.5	39
53	Conjugate-like immunogens produced as protein capsular matrix vaccines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1143-51.	7.1	35
54	Analysis of lipoprotein transport depletion in <i>Vibrio cholerae</i> using CRISPRi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17013-17022.	7.1	28

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55	Two-Component Signal Transduction and Its Role in the Expression of Bacterial Virulence Factors. , 0, 303-317.		25
56	Endogenous membrane stress induces T6SS activity in <i>Pseudomonas aeruginosa</i> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
57	Long-term Persistence of an Extensively Drug-Resistant Subclade of Globally Distributed <i>Pseudomonas aeruginosa</i> Clonal Complex 446 in an Academic Medical Center. Clinical Infectious Diseases, 2020, 71, 1524-1531.	5.8	20
58	Sensing of intracellular Hcp levels controls T6SS expression in <i>Vibrio cholerae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
59	Extracellular cyclic dinucleotides induce polarized responses in barrier epithelial cells by adenosine signaling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27502-27508.	7.1	17
60	Morphological and physical characterization of the capsular layer of <i>Vibrio cholerae</i> O139. Archives of Microbiology, 1998, 170, 339-344.	2.2	15
61	Live Attenuated Vaccine Vectors. International Journal of Technology Assessment in Health Care, 1994, 10, 131-142.	0.5	14
62	RS1 Satellite Phage Promotes Diversity of Toxigenic <i>Vibrio cholerae</i> by Driving CTX Prophage Loss and Elimination of Lysogenic Immunity. Infection and Immunity, 2014, 82, 3636-3643.	2.2	14
63	Type VI secretion system sheaths as nanoparticles for antigen display. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3042-3047.	7.1	14
64	Regulation of Cholera Toxin Expression. , 0, 177-185.		12
65	Intratumoral injection of schwannoma with attenuated <i>Salmonella typhimurium</i> induces antitumor immunity and controls tumor growth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	12
66	Transcriptional Silencing by TsrA in the Evolution of Pathogenic <i>Vibrio cholerae</i> Biotypes. MBio, 2020, 11, .	4.1	8
67	A Potent Inhibitor of the Cystic Fibrosis Transmembrane Conductance Regulator Blocks Disease and Morbidity Due to Toxigenic <i>Vibrio cholerae</i> . Toxins, 2022, 14, 225.	3.4	8
68	A phase 1 randomized safety, reactogenicity, and immunogenicity study of Typhax: A novel protein capsular matrix vaccine candidate for the prevention of typhoid fever. PLoS Neglected Tropical Diseases, 2020, 14, e0007912.	3.0	6
69	In Vivo Transduction with Shiga Toxin 1-Encoding Phage. Infection and Immunity, 1998, 66, 4496-4498.	2.2	6
70	In vitro characterization and preclinical immunogenicity of Typhax, a typhoid fever protein capsular matrix vaccine candidate. Human Vaccines and Immunotherapeutics, 2019, 15, 1310-1316.	3.3	4
71	Modification of an agar well diffusion technique to isolate yeasts that inhibit <i>Vibrio parahaemolyticus</i> , the causative agent of acute hepatopancreatic necrosis disease. Aquaculture Research, 2018, 49, 3838-3844.	1.8	3
72	Association of Protease Activity in <i>Vibrio cholerae</i> Vaccine Strains with Decreases in Transcellular Epithelial Resistance of Polarized T84 Intestinal Epithelial Cells. Infection and Immunity, 2000, 68, 6487-6492.	2.2	3

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73	Cholera: molecular basis for emergence and pathogenesis. FEMS Immunology and Medical Microbiology, 1997, 18, 241-248.	2.7	2
74	Draft Genome Sequence of Pseudomonas aeruginosa Strain BWH047, a Sequence Type 235 Multidrug-Resistant Clinical Isolate Expressing High Levels of Colistin Resistance. Microbiology Resource Announcements, 2019, 8, .	0.6	1
75	Draft Genome Sequence of Bowmanella denitrificans JL63, a Bacterium Isolated from Whiteleg Shrimp (Litopenaeus vannamei) That Can Inhibit the Growth of Vibrio parahaemolyticus. Genome Announcements, 2018, 6, .	0.8	0
76	2453. Prolonged Local Epidemic of an XDR P. aeruginosa Subclade of High-Risk Clonal Complex 298. Open Forum Infectious Diseases, 2019, 6, S848-S848.	0.9	0
77	Part I Overview. , 0, , 1-9.		0
78	Evolution of <i>Vibrio cholerae</i> and Cholera Epidemics. , 0, , 361-371.		0