

Melissa J Caimano

List of Publications by Year in descending order

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54
papers

3,708
citations

201674

27
h-index

168389

53
g-index

56
all docs

56
docs citations

56
times ranked

2757
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene Regulation and Transcriptomics. <i>Current Issues in Molecular Biology</i> , 2022, 42, 223-266.	2.4	22
2	Bacterial Indole as a Multifunctional Regulator of <i>Klebsiella oxytoca</i> Complex Enterotoxicity. <i>MBio</i> , 2022, 13, e0375221.	4.1	14
3	Extracellular Loops of the <i>Treponema pallidum</i> FadL Orthologs TP0856 and TP0858 Elicit IgG Antibodies and IgG ⁺ -Specific B-Cells in the Rabbit Model of Experimental Syphilis. <i>MBio</i> , 2022, 13, .	4.1	6
4	Analysis of <i>Treponema pallidum</i> Strains From China Using Improved Methods for Whole-Genome Sequencing From Primary Syphilis Chancres. <i>Journal of Infectious Diseases</i> , 2021, 223, 848-853.	4.0	15
5	Levels and Characteristics of mRNAs in Spores of Firmicute Species. <i>Journal of Bacteriology</i> , 2021, 203, e0001721.	2.2	1
6	PlzA is a bifunctional c-di-GMP biosensor that promotes tick and mammalian host-adaptation of <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009725.	4.7	8
7	Structural Modeling of the <i>Treponema pallidum</i> Outer Membrane Protein Repertoire: a Road Map for Deconvolution of Syphilis Pathogenesis and Development of a Syphilis Vaccine. <i>Journal of Bacteriology</i> , 2021, 203, e0008221.	2.2	20
8	The FUR-like regulators PerRA and PerRB integrate a complex regulatory network that promotes mammalian host-adaptation and virulence of <i>Leptospira interrogans</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009078.	4.7	6
9	The BB0345 Hypothetical Protein of <i>Borrelia burgdorferi</i> Is Essential for Mammalian Infection. <i>Infection and Immunity</i> , 2020, 88, .	2.2	3
10	Evidence that immunization with TP0751, a bipartite <i>Treponema pallidum</i> lipoprotein with an intrinsically disordered region and lipocalin fold, fails to protect in the rabbit model of experimental syphilis. <i>PLoS Pathogens</i> , 2020, 16, e1008871.	4.7	16
11	Analysis of 5'-NAD capping of mRNAs in dormant spores of <i>Bacillus subtilis</i> . <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	6
12	Cytotoxin-producing <i>Klebsiella oxytoca</i> in the preterm gut and its association with necrotizing enterocolitis. <i>Emerging Microbes and Infections</i> , 2020, 9, 1321-1329.	6.5	36
13	Role of glucosyltransferase R in biofilm interactions between <i>Streptococcus oralis</i> and <i>Candida albicans</i> . <i>ISME Journal</i> , 2020, 14, 1207-1222.	9.8	48
14	Cultivation of <i>Leptospira interrogans</i> Within Rat Peritoneal Dialysis Membrane Chambers. <i>Methods in Molecular Biology</i> , 2020, 2134, 229-242.	0.9	2
15	The RpoS Gatekeeper in <i>Borrelia burgdorferi</i> : An Invariant Regulatory Scheme That Promotes Spirochete Persistence in Reservoir Hosts and Niche Diversity. <i>Frontiers in Microbiology</i> , 2019, 10, 1923.	3.5	55
16	Properties of Aged Spores of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	21
17	Analysis of the mRNAs in Spores of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	18
18	Fecal Microbiomes in Premature Infants With and Without Parenteral Nutrition—Associated Cholestasis. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2019, 69, 224-230.	1.8	3

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19	Generation of Mammalian Host-Adapted <i>Borrelia burgdorferi</i> by Cultivation in Peritoneal Dialysis Membrane Chamber Implantation in Rats. <i>Methods in Molecular Biology</i> , 2018, 1690, 35-45.	0.9	7
20	Sequence Variation of Rare Outer Membrane Protein Î²-Barrel Domains in Clinical Strains Provides Insights into the Evolution of <i>Treponema pallidum</i> subsp. <i>pallidum</i> , the Syphilis Spirochete. <i>MBio</i> , 2018, 9, .	4.1	29
21	Two Distinct Mechanisms Govern RpoS-Mediated Repression of Tick-Phase Genes during Mammalian Host Adaptation by <i>Borrelia burgdorferi</i> , the Lyme Disease Spirochete. <i>MBio</i> , 2017, 8, .	4.1	39
22	Systematic Review of the Human Milk Microbiota. <i>Nutrition in Clinical Practice</i> , 2017, 32, 354-364.	2.4	174
23	The major outer sheath protein forms distinct conformers and multimeric complexes in the outer membrane and periplasm of <i>Treponema denticola</i> . <i>Scientific Reports</i> , 2017, 7, 13260.	3.3	10
24	Pathogenic <i>Leptospira</i> Modulate Protein Expression and Post-translational Modifications in Response to Mammalian Host Signals. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 362.	3.9	36
25	IFNÎ³ Enhances CD64-Potentiated Phagocytosis of <i>Treponema pallidum</i> Opsonized with Human Syphilitic Serum by Human Macrophages. <i>Frontiers in Immunology</i> , 2017, 8, 1227.	4.8	37
26	Peptide Uptake Is Essential for <i>Borrelia burgdorferi</i> Viability and Involves Structural and Regulatory Complexity of its Oligopeptide Transporter. <i>MBio</i> , 2017, 8, .	4.1	28
27	The <i>Treponema denticola</i> FhbB Protein Is a Dominant Early Antigen That Elicits FhbB Variant-Specific Antibodies That Block Factor H Binding and Cleavage by Dentilisin. <i>Infection and Immunity</i> , 2016, 84, 2051-2058.	2.2	19
28	Interaction of the Lyme disease spirochete with its tick vector. <i>Cellular Microbiology</i> , 2016, 18, 919-927.	2.1	97
29	Genomic insights into the <i>Ixodes scapularis</i> tick vector of Lyme disease. <i>Nature Communications</i> , 2016, 7, 10507.	12.8	450
30	Stage-specific global alterations in the transcriptomes of Lyme disease spirochetes during tick feeding and following mammalian host adaptation. <i>Molecular Microbiology</i> , 2015, 95, 509-538.	2.5	110
31	Cyclic di-GMP Modulates Gene Expression in Lyme Disease Spirochetes at the Tick-Mammal Interface To Promote Spirochete Survival during the Blood Meal and Tick-to-Mammal Transmission. <i>Infection and Immunity</i> , 2015, 83, 3043-3060.	2.2	86
32	A Homology Model Reveals Novel Structural Features and an Immunodominant Surface Loop/Opsonic Target in the <i>Treponema pallidum</i> BamA Ortholog TP_0326. <i>Journal of Bacteriology</i> , 2015, 197, 1906-1920.	2.2	29
33	Structural characterization and modeling of the <i>Borrelia burgdorferi</i> hybrid histidine kinase Hk1 periplasmic sensor: A system for sensing small molecules associated with tick feeding. <i>Journal of Structural Biology</i> , 2015, 192, 48-58.	2.8	24
34	Generation of Mammalian Host-adapted <i>Leptospira interrogans</i> by Cultivation in Peritoneal Dialysis Membrane Chamber Implantation in Rats. <i>Bio-protocol</i> , 2015, 5, .	0.4	5
35	A Model System for Studying the Transcriptomic and Physiological Changes Associated with Mammalian Host-Adaptation by <i>Leptospira interrogans</i> Serovar Copenhageni. <i>PLoS Pathogens</i> , 2014, 10, e1004004.	4.7	101
36	Correction for Anand et al., The Major Outer Sheath Protein (Msp) of <i>Treponema denticola</i> Has a Bipartite Domain Architecture and Exists as Periplasmic and Outer Membrane-Spanning Conformers. <i>Journal of Bacteriology</i> , 2014, 196, 3361-3361.	2.2	0

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37	Initial Characterization of the FlgE Hook High Molecular Weight Complex of <i>Borrelia burgdorferi</i> . PLoS ONE, 2014, 9, e98338.	2.5	17
38	HrpA, an RNA Helicase Involved in RNA Processing, Is Required for Mouse Infectivity and Tick Transmission of the Lyme Disease Spirochete. PLoS Pathogens, 2013, 9, e1003841.	4.7	33
39	<i>Borrelia burgdorferi</i> Requires the Alternative Sigma Factor RpoS for Dissemination within the Vector during Tick-to-Mammal Transmission. PLoS Pathogens, 2012, 8, e1002532.	4.7	99
40	TprC/D (Tp0117/131), a Trimeric, Pore-Forming Rare Outer Membrane Protein of <i>Treponema pallidum</i> , Has a Bipartite Domain Structure. Journal of Bacteriology, 2012, 194, 2321-2333.	2.2	41
41	Of ticks, mice and men: understanding the dual-host lifestyle of Lyme disease spirochaetes. Nature Reviews Microbiology, 2012, 10, 87-99.	28.6	602
42	TP0326, a <i>Treponema pallidum</i> β -barrel assembly machinery A (BamA) orthologue and rare outer membrane protein. Molecular Microbiology, 2011, 80, 1496-1515.	2.5	61
43	The Transition from Closed to Open Conformation of <i>Treponema pallidum</i> Outer Membrane-associated Lipoprotein TP0453 Involves Membrane Sensing and Integration by Two Amphipathic Helices. Journal of Biological Chemistry, 2011, 286, 41656-41668.	3.4	24
44	<i>Borrelia burgdorferi</i> Requires Glycerol for Maximum Fitness During The Tick Phase of the Enzootic Cycle. PLoS Pathogens, 2011, 7, e1002102.	4.7	98
45	The Hybrid Histidine Kinase Hk1 Is Part of a Two-Component System That Is Essential for Survival of <i>Borrelia burgdorferi</i> in Feeding <i>Ixodes scapularis</i> Ticks. Infection and Immunity, 2011, 79, 3117-3130.	2.2	88
46	Surface Immunolabeling and Consensus Computational Framework To Identify Candidate Rare Outer Membrane Proteins of <i>Treponema pallidum</i> . Infection and Immunity, 2010, 78, 5178-5194.	2.2	103
47	Role of Acetyl-Phosphate in Activation of the Rrp2-RpoN-RpoS Pathway in <i>Borrelia burgdorferi</i> . PLoS Pathogens, 2010, 6, e1001104.	4.7	78
48	<i>Borrelia burgdorferi</i> bba74 Is Expressed Exclusively during Tick Feeding and Is Regulated by Both Arthropod- and Mammalian Host-Specific Signals. Journal of Bacteriology, 2009, 191, 2783-2794.	2.2	64
49	Live imaging reveals a biphasic mode of dissemination of <i>Borrelia burgdorferi</i> within ticks. Journal of Clinical Investigation, 2009, 119, 3652-3665.	8.2	175
50	Analysis of the RpoS regulon in <i>Borrelia burgdorferi</i> in response to mammalian host signals provides insight into RpoS function during the enzootic cycle. Molecular Microbiology, 2007, 65, 1193-1217.	2.5	239
51	Alternate Sigma Factor RpoS Is Required for the In Vivo-Specific Repression of <i>Borrelia burgdorferi</i> Plasmid lp54-Borne ospA and lp6.6 Genes. Journal of Bacteriology, 2005, 187, 7845-7852.	2.2	107
52	RpoS Is Not Central to the General Stress Response in <i>Borrelia burgdorferi</i> but Does Control Expression of One or More Essential Virulence Determinants. Infection and Immunity, 2004, 72, 6433-6445.	2.2	159
53	Adaptation of the Lyme disease spirochaete to the mammalian host environment results in enhanced glycosaminoglycan and host cell binding. Molecular Microbiology, 2003, 47, 1433-1444.	2.5	68
54	The Tprk Protein of <i>Treponema pallidum</i> Is Periplasmic and Is Not a Target of Opsonic Antibody or Protective Immunity. Journal of Experimental Medicine, 2001, 193, 1015-1026.	8.5	69