

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
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56
all docs

56
docs citations

56
times ranked

2757
citing authors

#	ARTICLE	IF	CITATIONS
1	Of ticks, mice and men: understanding the dual-host lifestyle of Lyme disease spirochaetes. <i>Nature Reviews Microbiology</i> , 2012, 10, 87-99.	28.6	602
2	Genomic insights into the <i>Ixodes scapularis</i> tick vector of Lyme disease. <i>Nature Communications</i> , 2016, 7, 10507.	12.8	450
3	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. <i>Molecular Microbiology</i> , 2007, 65, 1193-1217.	2.5	239
4	Live imaging reveals a biphasic mode of dissemination of <i>Borrelia burgdorferi</i> within ticks. <i>Journal of Clinical Investigation</i> , 2009, 119, 3652-3665.	8.2	175
5	Systematic Review of the Human Milk Microbiota. <i>Nutrition in Clinical Practice</i> , 2017, 32, 354-364.	2.4	174
6	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. <i>Infection and Immunity</i> , 2004, 72, 6433-6445.	2.2	159
7	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
8	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. <i>Journal of Bacteriology</i> , 2005, 187, 7845-7852.	2.2	107
9	Surface Immunolabeling and Consensus Computational Framework To Identify Candidate Rare Outer Membrane Proteins of <i>Treponema pallidum</i> . <i>Infection and Immunity</i> , 2010, 78, 5178-5194.	2.2	103
10	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
11	<i>Borrelia burgdorferi</i> Requires the Alternative Sigma Factor RpoS for Dissemination within the Vector during Tick-to-Mammal Transmission. <i>PLoS Pathogens</i> , 2012, 8, e1002532.	4.7	99
12	<i>Borrelia burgdorferi</i> Requires Glycerol for Maximum Fitness During The Tick Phase of the Enzootic Cycle. <i>PLoS Pathogens</i> , 2011, 7, e1002102.	4.7	98
13	Interaction of the Lyme disease spirochete with its tick vector. <i>Cellular Microbiology</i> , 2016, 18, 919-927.	2.1	97
14	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. <i>Infection and Immunity</i> , 2011, 79, 3117-3130.	2.2	88
15	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
16	Role of Acetyl-Phosphate in Activation of the Rrp2-RpoN-RpoS Pathway in <i>Borrelia burgdorferi</i> . <i>PLoS Pathogens</i> , 2010, 6, e1001104.	4.7	78
17	The TprK Protein of <i>Treponema pallidum</i> Is Periplasmic and Is Not a Target of Opsonic Antibody or Protective Immunity. <i>Journal of Experimental Medicine</i> , 2001, 193, 1015-1026.	8.5	69
18	Adaptation of the Lyme disease spirochaete to the mammalian host environment results in enhanced glycosaminoglycan and host cell binding. <i>Molecular Microbiology</i> , 2003, 47, 1433-1444.	2.5	68

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19	<i>Borrelia burgdorferi</i> bba74 Is Expressed Exclusively during Tick Feeding and Is Regulated by Both Arthropod- and Mammalian Host-Specific Signals. <i>Journal of Bacteriology</i> , 2009, 191, 2783-2794.	2.2	64
20	TP0326, a <i>Treponema pallidum</i> β -barrel assembly machinery A (BamA) orthologue and rare outer membrane protein. <i>Molecular Microbiology</i> , 2011, 80, 1496-1515.	2.5	61
21	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
22	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
23	TprC/D (Tp0117/131), a Trimeric, Pore-Forming Rare Outer Membrane Protein of <i>Treponema pallidum</i> , Has a Bipartite Domain Structure. <i>Journal of Bacteriology</i> , 2012, 194, 2321-2333.	2.2	41
24	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
25	IFN γ 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	Pathogenic Leptospire 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
27	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
28	HrpA, an RNA Helicase Involved in RNA Processing, Is Required for Mouse Infectivity and Tick Transmission of the Lyme Disease Spirochete. <i>PLoS Pathogens</i> , 2013, 9, e1003841.	4.7	33
29	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
30	Sequence Variation of Rare Outer Membrane Protein β -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
31	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
32	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. <i>Journal of Biological Chemistry</i> , 2011, 286, 41656-41668.	3.4	24
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	Gene Regulation and Transcriptomics. <i>Current Issues in Molecular Biology</i> , 2022, 42, 223-266.	2.4	22
35	Properties of Aged Spores of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	21
36	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

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37	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
38	Analysis of the mRNAs in Spores of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	18
39	Initial Characterization of the FlgE Hook High Molecular Weight Complex of <i>Borrelia burgdorferi</i> . <i>PLoS ONE</i> , 2014, 9, e98338.	2.5	17
40	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
41	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
42	Bacterial Indole as a Multifunctional Regulator of <i>Klebsiella oxytoca</i> Complex Enterotoxicity. <i>MBio</i> , 2022, 13, e0375221.	4.1	14
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	The BB0345 Hypothetical Protein of <i>Borrelia burgdorferi</i> Is Essential for Mammalian Infection. <i>Infection and Immunity</i> , 2020, 88, .	2.2	3
52	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
53	Levels and Characteristics of mRNAs in Spores of Firmicute Species. <i>Journal of Bacteriology</i> , 2021, 203, e0001721.	2.2	1
54	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