

# R E Sockett

## List of Publications by Year in descending order

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46  
papers

2,645  
citations

172457

29  
h-index

233421

45  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1916  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Predator Unmasked: Life Cycle of <i>Bdellovibrio bacteriovorus</i> from a Genomic Perspective. <i>Science</i> , 2004, 303, 689-692.	12.6	331
2	<i>Bdellovibrio</i> as therapeutic agents: a predatory renaissance?. <i>Nature Reviews Microbiology</i> , 2004, 2, 669-675.	28.6	159
3	Effects of Orally Administered <i>Bdellovibrio bacteriovorus</i> on the Well-Being and <i>Salmonella</i> Colonization of Young Chicks. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5794-5803.	3.1	150
4	Injections of Predatory Bacteria Work Alongside Host Immune Cells to Treat <i>Shigella</i> Infection in Zebrafish Larvae. <i>Current Biology</i> , 2016, 26, 3343-3351.	3.9	131
5	The home stretch, a first analysis of the nearly completed genome of <i>Rhodobacter sphaeroides</i> 2.4.1. <i>Photosynthesis Research</i> , 2001, 70, 19-41.	2.9	129
6	Characterizing the flagellar filament and the role of motility in bacterial prey-penetration by <i>Bdellovibrio bacteriovorus</i> . <i>Molecular Microbiology</i> , 2006, 60, 274-286.	2.5	125
7	Predation by <i>Bdellovibrio bacteriovorus</i> HD100 Requires Type IV Pili. <i>Journal of Bacteriology</i> , 2007, 189, 4850-4859.	2.2	111
8	Fluorescent D-amino-acids reveal bi-cellular cell wall modifications important for <i>Bdellovibrio bacteriovorus</i> predation. <i>Nature Microbiology</i> , 2017, 2, 1648-1657.	13.3	103
9	A novel assay to monitor predator-prey interactions for <i>Bdellovibrio bacteriovorus</i> 109 J reveals a role for methyl-accepting chemotaxis proteins in predation. <i>Environmental Microbiology</i> , 2003, 5, 127-132.	3.8	98
10	The First Bite” Profiling the Predatosome in the Bacterial Pathogen <i>Bdellovibrio</i> . <i>PLoS ONE</i> , 2010, 5, e8599.	2.5	82
11	Discrete Cyclic di-GMP-Dependent Control of Bacterial Predation versus Axenic Growth in <i>Bdellovibrio bacteriovorus</i> . <i>PLoS Pathogens</i> , 2012, 8, e1002493.	4.7	80
12	Shadowing the Actions of a Predator: Backlit Fluorescent Microscopy Reveals Synchronous Nonbinary Septation of Predatory <i>Bdellovibrio</i> inside Prey and Exit through Discrete <i>Bdelloplast</i> Pores. <i>Journal of Bacteriology</i> , 2010, 192, 6329-6335.	2.2	76
13	The Structure of an Unconventional HD-GYP Protein from <i>Bdellovibrio</i> Reveals the Roles of Conserved Residues in this Class of Cyclic-di-GMP Phosphodiesterases. <i>MBio</i> , 2011, 2, .	4.1	73
14	Specialized Peptidoglycan Hydrolases Sculpt the Intra-bacterial Niche of Predatory <i>Bdellovibrio</i> and Increase Population Fitness. <i>PLoS Pathogens</i> , 2012, 8, e1002524.	4.7	70
15	Predator Versus Pathogen: How Does Predatory <i>Bdellovibrio bacteriovorus</i> Interface with the Challenges of Killing Gram-Negative Pathogens in a Host Setting?. <i>Annual Review of Microbiology</i> , 2017, 71, 441-457.	7.3	67
16	<i>Bdellovibrio</i> : growth and development during the predatory cycle. <i>Current Opinion in Microbiology</i> , 2006, 9, 639-644.	5.1	54
17	<i>Bdellovibrio</i> Predation in the Presence of Decoys: Three-Way Bacterial Interactions Revealed by Mathematical and Experimental Analyses. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6757-6765.	3.1	53
18	Arsenic rich Himalayan hot spring metagenomics reveal genetically novel predator-prey genotypes. <i>Environmental Microbiology Reports</i> , 2015, 7, 812-823.	2.4	47

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19	Genome analysis of a simultaneously predatory and prey-independent, novel <i>Bdellovibrio bacteriovorus</i> from the River Tiber, supports in silico predictions of both ancient and recent lateral gene transfer from diverse bacteria. <i>BMC Genomics</i> , 2012, 13, 670.	2.8	46
20	Laboratory Maintenance of <i>Bdellovibrio</i> . <i>Current Protocols in Microbiology</i> , 2008, 9, Unit 7B.2.	6.5	45
21	Ras GTPase-Like Protein MglA, a Controller of Bacterial Social-Motility in Myxobacteria, Has Evolved to Control Bacterial Predation by <i>Bdellovibrio</i> . <i>PLoS Genetics</i> , 2014, 10, e1004253.	3.5	44
22	A small predatory core genome in the divergent marine <i>Bacteriovorax marinus</i> SJ and the terrestrial <i>Bdellovibrio bacteriovorus</i> . <i>ISME Journal</i> , 2013, 7, 148-160.	9.8	43
23	Predatory <i>Bdellovibrio</i> Bacteria Use Gliding Motility To Scout for Prey on Surfaces. <i>Journal of Bacteriology</i> , 2011, 193, 3139-3141.	2.2	41
24	<i>Bdellovibrio bacteriovorus</i> HD100 guards against <i>Pseudomonas tolaasii</i> brown-blotch lesions on the surface of post-harvest <i>Agaricus bisporus</i> supermarket mushrooms. <i>BMC Microbiology</i> , 2014, 14, 163.	3.3	41
25	Interrupting peptidoglycan deacetylation during <i>Bdellovibrio</i> predator-prey interaction prevents ultimate destruction of prey wall, liberating bacterial-ghosts. <i>Scientific Reports</i> , 2016, 6, 26010.	3.3	39
26	Ankyrin-mediated self-protection during cell invasion by the bacterial predator <i>Bdellovibrio bacteriovorus</i> . <i>Nature Communications</i> , 2015, 6, 8884.	12.8	37
27	A lysozyme with altered substrate specificity facilitates prey cell exit by the periplasmic predator <i>Bdellovibrio bacteriovorus</i> . <i>Nature Communications</i> , 2020, 11, 4817.	12.8	35
28	Examining diabetic heel ulcers through an ecological lens: microbial community dynamics associated with healing and infection. <i>Journal of Medical Microbiology</i> , 2019, 68, 230-240.	1.8	34
29	Roles of Multiple Flagellins in Flagellar Formation and Flagellar Growth Post <i>Bdelloplast</i> Lysis in <i>Bdellovibrio bacteriovorus</i> . <i>Journal of Molecular Biology</i> , 2009, 394, 1011-1021.	4.2	32
30	Nucleases in <i>Bdellovibrio bacteriovorus</i> contribute towards efficient self-biofilm formation and eradication of preformed prey biofilms. <i>FEMS Microbiology Letters</i> , 2013, 340, 109-116.	1.8	31
31	Measuring and modelling the response of <i>Klebsiella pneumoniae</i> KPC prey to <i>Bdellovibrio bacteriovorus</i> predation, in human serum and defined buffer. <i>Scientific Reports</i> , 2017, 7, 8329.	3.3	29
32	Dual Predation by Bacteriophage and <i>Bdellovibrio bacteriovorus</i> Can Eradicate <i>Escherichia coli</i> Prey in Situations where Single Predation Cannot. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	29
33	Three <i>motAB</i> Stator Gene Products in <i>Bdellovibrio bacteriovorus</i> Contribute to Motility of a Single Flagellum during Predatory and Prey-Independent Growth. <i>Journal of Bacteriology</i> , 2011, 193, 932-943.	2.2	27
34	Engulfment, persistence and fate of <i>Bdellovibrio bacteriovorus</i> predators inside human phagocytic cells informs their future therapeutic potential. <i>Scientific Reports</i> , 2019, 9, 4293.	3.3	24
35	Dynamics of Chromosome Replication and Its Relationship to Predatory Attack Lifestyles in <i>Bdellovibrio bacteriovorus</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	19
36	Microbe Profile: <i>Bdellovibrio bacteriovorus</i> : a specialized bacterial predator of bacteria. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	1.8	15

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37	The Bdellovibrio bacteriovorus twin-arginine transport system has roles in predatory and prey-independent growth. <i>Microbiology (United Kingdom)</i> , 2011, 157, 3079-3093.	1.8	14
38	Structural and Biochemical Analysis of a Unique Phosphatase from Bdellovibrio bacteriovorus Reveals Its Structural and Functional Relationship with the Protein Tyrosine Phosphatase Class of Phytase. <i>PLoS ONE</i> , 2014, 9, e94403.	2.5	14
39	Predatory Bacteria: Moving from Curiosity Towards Curative. <i>Trends in Microbiology</i> , 2017, 25, 90-91.	7.7	12
40	Asymmetric peptidoglycan editing generates cell curvature in Bdellovibrio predatory bacteria. <i>Nature Communications</i> , 2022, 13, 1509.	12.8	12
41	Nucleotide signaling pathway convergence in a cAMP-sensing bacterial c-di-GMP phosphodiesterase. <i>EMBO Journal</i> , 2019, 38, e100772.	7.8	11
42	Production of 3',3'-cGAMP by a Bdellovibrio bacteriovorus promiscuous GGDEF enzyme, Bd0367, regulates exit from prey by gliding motility. <i>PLoS Genetics</i> , 2022, 18, e1010164.	3.5	11
43	Nature knows best: employing whole microbial strategies to tackle antibiotic resistant pathogens. <i>Environmental Microbiology Reports</i> , 2017, 9, 47-49.	2.4	8
44	Evolutionary diversification of the RomR protein of the invasive deltaproteobacterium, Bdellovibrio bacteriovorus. <i>Scientific Reports</i> , 2019, 9, 5007.	3.3	6
45	Bdellovibrio: Lone Hunter - Cousin of the Pack Hunting Myxobacteria. , 2014, , 349-362.		2
46	Evidence for $\beta$ -sheet conformation in vesicle-bound peptides derived from the transmembrane bacterial flagellar motor protein MotB from <i>Rhodobacter sphaeroides</i> . <i>Perkin Transactions II RSC</i> , 2000, , 479-483.	1.1	0