Sarah J Coulthurst

List of Publications by Year
in descending order

51 papers	3,979 citations	147801 31 h-index	182427 51 g-index
58 all docs	58 docs citations	58 times ranked	3741 citing authors

#	Article	IF	Citations
1	Aim, Load, Fire: The Type VI Secretion System, a Bacterial Nanoweapon. Trends in Microbiology, 2016, 24, 51-62.	7.7	366
2	Quorum Sensing Coordinates Brute Force and Stealth Modes of Infection in the Plant Pathogen Pectobacterium atrosepticum. PLoS Pathogens, 2008, 4, e1000093.	4.7	216
3	The Type VI secretion system: a versatile bacterial weapon. Microbiology (United Kingdom), 2019, 165, 503-515.	1.8	216
4	The Opportunistic Pathogen Serratia marcescens Utilizes Type VI Secretion To Target Bacterial Competitors. Journal of Bacteriology, 2011, 193, 6057-6069.	2.2	203
5	The type VI secretion system deploys antifungal effectors against microbial competitors. Nature Microbiology, 2018, 3, 920-931.	13.3	199
6	VgrG and PAAR Proteins Define Distinct Versions of a Functional Type VI Secretion System. PLoS Pathogens, 2016, 12, e1005735.	4.7	184
7	The Type VI secretion system â€“ a widespread and versatile cell targeting system. Research in Microbiology, 2013, 164, 640-654.	2.1	177
8	Intraspecies Competition in Serratia marcescens Is Mediated by Type VI-Secreted Rhs Effectors and a Conserved Effector-Associated Accessory Protein. Journal of Bacteriology, 2015, 197, 2350-2360.	2.2	165
9	Genome Evolution and Plasticity of Serratia marcescens, an Important Multidrug-Resistant Nosocomial Pathogen. Genome Biology and Evolution, 2014, 6, 2096-2110.	2.5	155
10	Molecular weaponry: diverse effectors delivered by the Type VI secretion system. Cellular Microbiology, 2015, 17, 1742-1751.	2.1	150
11	Quorum sensing, virulence and secondary metabolite production in plant soft-rotting bacteria. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1165-1183.	4.0	140
12	Regulation and biosynthesis of carbapenem antibiotics in bacteria. Nature Reviews Microbiology, 2005, 3, 295-306.	28.6	135
13	New secreted toxins and immunity proteins encoded within the <scp>T</scp>ype <scp>VI</scp> secretion system gene cluster of <scp>S</scp>erratia marcescens. Molecular Microbiology, 2012, 86, 921-936.	2.5	121
14	The regulation of virulence in phytopathogenic Erwinia species: quorum sensing, antibiotics and ecological considerations. Antonie Van Leeuwenhoek, 2002, 81, 223-231.	1.7	110
15	Stable-isotope labeling with amino acids in nematodes. Nature Methods, 2011, 8, 849-851.	19.0	108
16	Type<scp>VI</scp>secretion system effector proteins: Effective weapons for bacterial competitiveness. Cellular Microbiology, 2020, 22, e13241.	2.1	93
17	luxS mutants of Serratia defective in autoinducer-2-dependent â€˜quorum sensingâ€™ show strain-dependent impacts on virulence and production of carbapenem and prodigiosin. Microbiology (United Kingdom), 2004, 150, 1901-1910.	1.8	91
18	Proteomic Identification of Novel Secreted Antibacterial Toxins of the Serratia marcescens Type VI Secretion System. Molecular and Cellular Proteomics, 2013, 12, 2735-2749.	3.8	81

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19	Metabolic and regulatory engineering of Serratia marcescens: mimicking phage-mediated horizontal acquisition of antibiotic biosynthesis and quorum-sensing capacities. Microbiology (United Kingdom), 2006, 152, 1899-1911.	1.8	79
20	A multiâ€repeat adhesin of the phytopathogen, Pectobacterium atrosepticum, is secreted by a Type I pathway and is subject to complex regulation involving a nonâ€canonical diguanylate cyclase. Molecular Microbiology, 2011, 82, 719-733.	2.5	64
21	Visualization of the Serratia Type VI Secretion System Reveals Unprovoked Attacks and Dynamic Assembly. Cell Reports, 2015, 12, 2131-2142.	6.4	63
22	Genetic and proteomic analysis of the role of luxS in the enteric phytopathogen, Erwinia carotovora. Molecular Plant Pathology, 2006, 7, 31-45.	4.2	57
23	A family of Type VI secretion system effector proteins that form ion-selective pores. Nature Communications, 2019, 10, 5484.	12.8	57
24	The Insect Pathogen Serratia marcescens Db10 Uses a Hybrid Non-Ribosomal Peptide Synthetase-Polyketide Synthase to Produce the Antibiotic Althiomycin. PLoS ONE, 2012, 7, e44673.	2.5	54
25	Biochemical analysis of TssK, a core component of the bacterial TypeÂVI secretion system, reveals distinct oligomeric states of TssK and identifies a TssKâ€“TssFG subcomplex. Biochemical Journal, 2014, 461, 291-304.	3.7	53
26	DsbA Plays a Critical and Multifaceted Role in the Production of Secreted Virulence Factors by the Phytopathogen Erwinia carotovora subsp. atroseptica. Journal of Biological Chemistry, 2008, 283, 23739-23753.	3.4	48
27	N-Acetylglucosamine-dependent biofilm formation in Pectobacterium atrosepticum is cryptic and activated by elevated c-di-GMP levels. Microbiology (United Kingdom), 2011, 157, 3340-3348.	1.8	47
28	A holin and an endopeptidase are essential for chitinolytic protein secretion in Serratia marcescens. Journal of Cell Biology, 2014, 207, 615-626.	5.2	47
29	The ecological impact of a bacterial weapon: microbial interactions and the Type VI secretion system. FEMS Microbiology Reviews, 2021, 45, .	8.6	45
30	Structureâ€activity relationships of Erwinia carotovora quorum sensing signaling molecules. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4235-4238.	2.2	37
31	Structural basis for type VI secreted peptidoglycan<scp>DL</scp>-endopeptidase function, specificity and neutralization inSerratia marcescens. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2468-2482.	2.5	37
32	Remnant signal peptides on non-exported enzymes: implications for the evolution of prokaryotic respiratory chains. Microbiology (United Kingdom), 2009, 155, 3992-4004.	1.8	36
33	Quorum sensing has an unexpected role in virulence in the model pathogen Citrobacter rodentium. EMBO Reports, 2007, 8, 698-703.	4.5	32
34	Dual Role for DsbA in Attacking and Targeted Bacterial Cells during Type VI Secretion System-Mediated Competition. Cell Reports, 2018, 22, 774-785.	6.4	31
35	Killing with proficiency: Integrated post-translational regulation of an offensive Type VI secretion system. PLoS Pathogens, 2018, 14, e1007230.	4.7	30
36	Two mobilePectobacterium atrosepticumprophages modulate virulence. FEMS Microbiology Letters, 2010, 304, 195-202.	1.8	29

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37	The structure ofSerratia marcescensLip, a membrane-bound component of the type VI secretion system. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 1065-1072.	2.5	27
38	Signal peptide etiquette during assembly of a complex respiratory enzyme. Molecular Microbiology, 2013, 90, 400-414.	2.5	27
39	A synthetic system for expression of components of a bacterial microcompartment. Microbiology (United Kingdom), 2013, 159, 2427-2436.	1.8	26
40	Can boron get bacteria talking?. Trends in Biochemical Sciences, 2002, 27, 217-219.	7.5	25
41	Conserved Signal Peptide Recognition Systems across the Prokaryotic Domains. Biochemistry, 2012, 51, 1678-1686.	2.5	25
42	The archetype <scp>P</scp>seudomonas aeruginosa proteins <scp><scp>TssB</scp></scp> and <scp><scp>TagJ</scp></scp> form a novel subcomplex in the bacterial type <scp>VI</scp> secretion system. Molecular Microbiology, 2012, 86, 437-456.	2.5	22
43	Role of the phosphopantetheinyltransferase enzyme, PswP, in the biosynthesis of antimicrobial secondary metabolites by Serratia marcescens Db10. Microbiology (United Kingdom), 2014, 160, 1609-1617.	1.8	20
44	A New Front in Microbial Warfareâ€"Delivery of Antifungal Effectors by the Type VI Secretion System. Journal of Fungi (Basel, Switzerland), 2019, 5, 50.	3.5	17
45	The plant pathogen Pectobacterium atrosepticum contains a functional formate hydrogenlyaseâ€2 complex. Molecular Microbiology, 2019, 112, 1440-1452.	2.5	8
46	A new way out: protein localization on the bacterial cell surface via Tat and a novel Type II secretion system. Molecular Microbiology, 2008, 69, 1331-1335.	2.5	6
47	Activation of a [NiFe]-hydrogenase-4 isoenzyme by maturation proteases. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	3
48	Communication, Cooperation, and Social Interactions: a Report from the Third Young Microbiologists Symposium on Microbe Signalling, Organisation, and Pathogenesis. Journal of Bacteriology, 2014, 196, 3527-3533.	2.2	2
49	Quantitative Determination of Anti-bacterial Activity During Bacterial Co-culture. Methods in Molecular Biology, 2017, 1615, 517-524.	0.9	2
50	Quorum Sensing in the Soft-Rot Erwinias. , 0, , 185-199.		1
51	A Snapshot of the Extraordinary World of Social Microbiology. Journal of Molecular Biology, 2015, 427, 3625-3627.	4.2	0