George P C Salmond

List of Publications by Year
in descending order

98 papers	6,559 citations	66343 42 h-index	69250 77 g-index
100 all docs	100 docs citations	100 times ranked	5909 citing authors

#	Article	IF	Citations
1	Sense codon reassignment enables viral resistance and encoded polymer synthesis. Science, 2021, 372, 1057-1062.	12.6	90
2	Substrate Flexibility of the Flavinâ€Dependent Dihydropyrrole Oxidases PigB and HapB Involved in Antibiotic Prodigiosin Biosynthesis. ChemBioChem, 2020, 21, 523-530.	2.6	8
3	Genomics of the Argentinian cholera epidemic elucidate the contrasting dynamics of epidemic and endemic Vibrio cholerae. Nature Communications, 2020, 11, 4918.	12.8	12
4	Bacteriophage host range evolution through engineered enrichment bias, exploiting heterologous surface receptor expression. Environmental Microbiology, 2020, 22, 5207-5221.	3.8	6
5	Ambigols from the Cyanobacterium Fischerella ambigua Increase Prodigiosin Production in Serratia spp. ACS Chemical Biology, 2020, 15, 2929-2936.	3.4	8
6	The <scp>FloR</scp> master regulator controls flotation, virulence and antibiotic production in Serratia sp. <scp>ATCC</scp> 39006. Environmental Microbiology, 2020, 22, 2921-2938.	3.8	2
7	Microbial gas vesicles as nanotechnology tools: exploiting intracellular organelles for translational utility in biotechnology, medicine and the environment. Microbiology (United Kingdom), 2020, 166, 501-509.	1.8	14
8	Environmental potassium regulates bacterial flotation, antibiotic production and turgor pressure in Serratia through the TrkH transporter. Environmental Microbiology, 2019, 21, 2499-2510.	3.8	7
9	The rsmS (ybaM) mutation causes bypass suppression of the RsmAB post-transcriptional virulence regulation system in enterobacterial phytopathogens. Scientific Reports, 2019, 9, 4525.	3.3	3
10	The Prophages of Citrobacter rodentium Represent a Conserved Family of Horizontally Acquired Mobile Genetic Elements Associated with Enteric Evolution towards Pathogenicity. Journal of Bacteriology, 2019, 201, .	2.2	19
11	Type I-F CRISPR-Cas resistance against virulent phages results in abortive infection and provides population-level immunity. Nature Communications, 2019, 10, 5526.	12.8	44
12	The bacterial Type III toxin-antitoxin system, ToxIN, is a dynamic protein-RNA complex with stability-dependent antiviral abortive infection activity. Scientific Reports, 2018, 8, 1013.	3.3	32
13	Genome Sequence of the Oocydin A-Producing Rhizobacterium Serratia plymuthica 4Rx5. Microbiology Resource Announcements, 2018, 7, .	0.6	4
14	Draft Genome Sequence of Pectobacterium carotovorum subsp. carotovorum ATCC 39048, a Carbapenem-Producing Phytopathogen. Microbiology Resource Announcements, 2018, 7, .	0.6	4
15	Jumbo Bacteriophages Are Represented Within an Increasing Diversity of Environmental Viruses Infecting the Emerging Phytopathogen, Dickeya solani. Frontiers in Microbiology, 2018, 9, 2169.	3.5	19
16	Genome Sequence of Serratia marcescens MSU97, a Plant-Associated Bacterium That Makes Multiple Antibiotics. Genome Announcements, 2017, 5, .	0.8	13
17	Evolution of Pectobacterium Bacteriophage Î¦M1 To Escape Two Bifunctional Type III Toxin-Antitoxin and Abortive Infection Systems through Mutations in a Single Viral Gene. Applied and Environmental Microbiology, 2017, 83, .	3.1	47
18	Draft Genome Sequences of Enterobacter cloacae Strains CAPREx E7 and CAPREx E2-2. Genome Announcements, 2017, 5, .	0.8	0

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19	Draft Genome Sequences of Serratia marcescens Strains CAPREx SY13 and CAPREx SY21 Isolated from Yams. Genome Announcements, 2017, 5, .	0.8	0
20	Environmental T4-Family Bacteriophages Evolve to Escape Abortive Infection via Multiple Routes in a Bacterial Host Employing â€œAltruistic Suicideâ€•through Type III Toxin-Antitoxin Systems. Frontiers in Microbiology, 2017, 8, 1006.	3.5	21
21	Environmental Bacteriophages of the Emerging Enterobacterial Phytopathogen, Dickeya solani, Show Genomic Conservation and Capacity for Horizontal Gene Transfer between Their Bacterial Hosts. Frontiers in Microbiology, 2017, 8, 1654.	3.5	36
22	The Laclâ€“Family Transcription Factor, RbsR, Is a Pleiotropic Regulator of Motility, Virulence, Siderophore and Antibiotic Production, Gas Vesicle Morphogenesis and Flotation in Serratia. Frontiers in Microbiology, 2017, 8, 1678.	3.5	20
23	1.8â€…Ã… resolution crystal structure of the carbapenem intrinsic resistance protein CarF. Acta Crystallographica Section D: Structural Biology, 2017, 73, 549-556.	2.3	1
24	Structure, Evolution, and Functions of Bacterial Type III Toxin-Antitoxin Systems. Toxins, 2016, 8, 282.	3.4	38
25	Biosynthesis of the acetylâ€CoA carboxylaseâ€inhibiting antibiotic, andrimid in Serratia is regulated by Hfq and the LysRâ€type transcriptional regulator, AdmX. Environmental Microbiology, 2016, 18, 3635-3650.	3.8	39
26	Molecular genetic and physical analysis of gas vesicles in buoyant enterobacteria. Environmental Microbiology, 2016, 18, 1264-1276.	3.8	45
27	Quorum Sensing Controls Adaptive Immunity through the Regulation of Multiple CRISPR-Cas Systems. Molecular Cell, 2016, 64, 1102-1108.	9.7	183
28	Genome Sequence of Serratia plymuthica A153, a Model Rhizobacterium for the Investigation of the Synthesis and Regulation of Haterumalides, Zeamine, and Andrimid. Genome Announcements, 2016, 4, .	0.8	17
29	CRISPR-Cas gene-editing reveals RsmA and RsmC act through FlhDC to repress the SdhE flavinylation factor and control motility and prodigiosin production in Serratia. Microbiology (United Kingdom), 2016, 162, 1047-1058.	1.8	38
30	Overproduction of individual gas vesicle proteins perturbs flotation, antibiotic production and cell division in the enterobacterium Serratia sp. ATCC 39006. Microbiology (United Kingdom), 2016, 162, 1595-1607.	1.8	10
31	Co-evolution of quaternary organization and novel RNA tertiary interactions revealed in the crystal structure of a bacterial proteinâ€“RNA toxinâ€“antitoxin system. Nucleic Acids Research, 2015, 43, 9529-9540.	14.5	24
32	Biosynthesis of the antifungal haterumalide, oocydin <scp>A</scp>, in <scp>S</scp>erratia, and its regulation by quorum sensing, <scp>RpoS</scp> and <scp>Hfq</scp>. Environmental Microbiology, 2015, 17, 2993-3008.	3.8	45
33	A Plasmid-Transposon Hybrid Mutagenesis System Effective in a Broad Range of Enterobacteria. Frontiers in Microbiology, 2015, 6, 1442.	3.5	13
34	The broad-spectrum antibiotic, zeamine, kills the nematode worm Caenorhabditis elegans. Frontiers in Microbiology, 2015, 6, 137.	3.5	44
35	A Type III protein-RNA toxin-antitoxin system fromBacillus thuringiensispromotes plasmid retention during spore development. RNA Biology, 2015, 12, 933-937.	3.1	8
36	A century of the phage: past, present and future. Nature Reviews Microbiology, 2015, 13, 777-786.	28.6	537

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37	Complete Genome Sequences of Two Citrobacter rodentium Bacteriophages, CR8 and CR44b. Genome Announcements, 2014, 2, .	0.8	3
38	A widespread bacteriophage abortive infection system functions through a Type IV toxinâ€“antitoxin mechanism. Nucleic Acids Research, 2014, 42, 4590-4605.	14.5	228
39	Remarkable Mechanisms in Microbes to Resist Phage Infections. Annual Review of Virology, 2014, 1, 307-331.	6.7	226
40	Viunalikeviruses are environmentally common agents of horizontal gene transfer in pathogens and biocontrol bacteria. ISME Journal, 2014, 8, 2143-2147.	9.8	40
41	Bacteriophage Ï•MAM1, a Viunalikevirus, Is a Broad-Host-Range, High-Efficiency Generalized Transducer That Infects Environmental and Clinical Isolates of the Enterobacterial Genera Serratia and Kluyvera. Applied and Environmental Microbiology, 2014, 80, 6446-6457.	3.1	34
42	Identification of genes in the VirR regulon of Pectobacterium atrosepticum and characterization of their roles in quorum sensingâ€dependent virulence. Environmental Microbiology, 2013, 15, 687-701.	3.8	18
43	Virulence in <scp>P</scp>ectobacterium atrosepticum is regulated by a coincidence circuit involving quorum sensing and the stress alarmone, (p)pp<scp>G</scp>pp. Molecular Microbiology, 2013, 90, 457-471.	2.5	44
44	Selectivity and self-assembly in the control of a bacterial toxin by an antitoxic noncoding RNA pseudoknot. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E241-9.	7.1	57
45	A Metabolic Regulator Modulates Virulence and Quorum Sensing Signal Production in Pectobacterium atrosepticum. Molecular Plant-Microbe Interactions, 2013, 26, 356-366.	2.6	14
46	Draft Genome Sequence of Serratia sp. Strain ATCC 39006, a Model Bacterium for Analysis of the Biosynthesis and Regulation of Prodigiosin, a Carbapenem, and Gas Vesicles. Genome Announcements, 2013, 1, .	0.8	19
47	Viral Evasion of a Bacterial Suicide System by RNAâ€“Based Molecular Mimicry Enables Infectious Altruism. PLoS Genetics, 2012, 8, e1003023.	3.5	108
48	Viral molecular mimicry circumvents abortive infection and suppresses bacterial suicide to make hosts permissive for replication. Bacteriophage, 2012, 2, e23830.	1.9	9
49	SdhE Is a Conserved Protein Required for Flavinylation of Succinate Dehydrogenase in Bacteria. Journal of Biological Chemistry, 2012, 287, 18418-18428.	3.4	58
50	The stationary phase sigma factor, RpoS, regulates the production of a carbapenem antibiotic, a bioactive prodigiosin and virulence in the enterobacterial pathogen Serratia sp. ATCC 39006. Microbiology (United Kingdom), 2012, 158, 648-658.	1.8	36
51	Identification and classification of bacterial Type III toxinâ€“antitoxin systems encoded in chromosomal and plasmid genomes. Nucleic Acids Research, 2012, 40, 6158-6173.	14.5	129
52	Complete Genome Sequence of Serratia plymuthica Bacteriophage Ï•MAM1. Journal of Virology, 2012, 86, 13872-13873.	3.4	8
53	Quorum sensing-controlled buoyancy through gas vesicles: Intracellular bacterial microcompartments for environmental adaptation. Communicative and Integrative Biology, 2012, 5, 96-98.	1.4	16
54	Bacterial Biosynthetic Gene Clusters Encoding the Anti-cancer Haterumalide Class of Molecules. Journal of Biological Chemistry, 2012, 287, 39125-39138.	3.4	80

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55	Characterisation of PigC and HapC, the prodigiosin synthetases from Serratia sp. and Hahella chejuensis with potential for biocatalytic production of anticancer agents. Chemical Science, 2012, 3, 447-454.	7.4	30
56	The RNA chaperone, Hfq, controls two luxRâ€type regulators and plays a key role in pathogenesis and production of antibiotics in Serratia sp. ATCC 39006. Environmental Microbiology, 2011, 13, 2649-2666.	3.8	34
57	A processed noncoding RNA regulates an altruistic bacterial antiviral system. Nature Structural and Molecular Biology, 2011, 18, 185-190.	8.2	115
58	Balancing at survival's edge: the structure and adaptive benefits of prokaryotic toxinâ€“antitoxin partners. Current Opinion in Structural Biology, 2011, 21, 109-118.	5.7	89
59	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
60	A quorum-sensing molecule acts as a morphogen controlling gas vesicle organelle biogenesis and adaptive flotation in an enterobacterium. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14932-14937.	7.1	55
61	Citrobacter rodentium is an Unstable Pathogen Showing Evidence of Significant Genomic Flux. PLoS Pathogens, 2011, 7, e1002018.	4.7	35
62	The Pseudomonas aeruginosa generalized transducing phage Ï†PA3 is a new member of the Ï†KZ-like group of â€˜jumboâ€™ phages, and infects model laboratory strains and clinical isolates from cystic fibrosis patients. Microbiology (United Kingdom), 2011, 157, 859-867.	1.8	56
63	Quorum sensingâ€controlled Evr regulates a conserved cryptic pigment biosynthetic cluster and a novel phenomycinâ€like locus in the plant pathogen, Pectobacterium carotovorum. Environmental Microbiology, 2010, 12, 1811-1827.	3.8	12
64	Engineering of new prodigiosinâ€based biosensors of Serratia for facile detection of shortâ€chain Nâ€acyl homoserine lactone quorumâ€sensing molecules. Environmental Microbiology Reports, 2010, 2, 322-328.	2.4	25
65	Mutations in rpsL that confer streptomycin resistance show pleiotropic effects on virulence and the production of a carbapenem antibiotic in Erwinia carotovora. Microbiology (United Kingdom), 2010, 156, 1030-1039.	1.8	34
66	The phage abortive infection system, ToxIN, functions as a proteinâ€“RNA toxinâ€“antitoxin pair. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 894-899.	7.1	445
67	Integrated regulation involving quorum sensing, a twoâ€component system, a GGDEF/EAL domain protein and a postâ€transcriptional regulator controls swarming and RhlAâ€dependent surfactant biosynthesis in Serratia. Environmental Microbiology, 2008, 10, 1202-1217.	3.8	65
68	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
69	A generalized transducing phage for the murine pathogen Citrobacter rodentium. Microbiology (United Kingdom), 2007, 153, 2984-2988.	1.8	21
70	Virulence and Prodigiosin Antibiotic Biosynthesis inSerratiaAre Regulated Pleiotropically by the GGDEF/EAL Domain Protein, PigX. Journal of Bacteriology, 2007, 189, 7653-7662.	2.2	64
71	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
72	Bacteriophage applications: current and potential applications in biotechnology, agriculture and medicine. Future Microbiology, 2006, 1, 171-173.	2.0	0

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73	Identification of the central quorum sensing regulator of virulence in the enteric phytopathogen, Erwinia carotovora: the VirR repressor. Molecular Microbiology, 2006, 59, 113-125.	2.5	105
74	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
75	The biosynthesis and regulation of bacterial prodiginines. Nature Reviews Microbiology, 2006, 4, 887-899.	28.6	425
76	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
77	Exploitation of a Î²-lactamase reporter gene fusion in the carbapenem antibiotic production operon to study adaptive evolution in Erwinia carotovora. Microbiology (United Kingdom), 2006, 152, 1089-1097.	1.8	4
78	A generalized transducing phage (Ï•IF3) for the genomically sequenced Serratia marcescens strain Db11: a tool for functional genomics of an opportunistic human pathogen. Microbiology (United Kingdom), 2006, 152, 1701-1708.	1.8	58
79	Biosynthesis of tripyrrole and Î²â€lactam secondary metabolites in Serratia: integration of quorum sensing with multiple new regulatory components in the control of prodigiosin and carbapenem antibiotic production. Molecular Microbiology, 2005, 56, 1495-1517.	2.5	125
80	Regulation and biosynthesis of carbapenem antibiotics in bacteria. Nature Reviews Microbiology, 2005, 3, 295-306.	28.6	135
81	A GntR family transcriptional regulator (PigT) controls gluconate-mediated repression and defines a new, independent pathway for regulation of the tripyrrole antibiotic, prodigiosin, in Serratia. Microbiology (United Kingdom), 2005, 151, 3833-3845.	1.8	77
82	The Serratia gene cluster encoding biosynthesis of the red antibiotic, prodigiosin, shows species- and strain-dependent genome context variation. Microbiology (United Kingdom), 2004, 150, 3547-3560.	1.8	182
83	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
84	Carbapenem antibiotic biosynthesis in Erwinia carotovora is regulated by physiological and genetic factors modulating the quorum sensing-dependent control pathway. Molecular Microbiology, 2004, 55, 526-545.	2.5	73
85	Phosphate availability regulates biosynthesis of two antibiotics, prodigiosin and carbapenem, in Serratia via both quorumâ€sensingâ€dependent and â€independent pathways. Molecular Microbiology, 2003, 47, 303-320.	2.5	237
86	Nonenzymatic Turnover of anErwinia carotovoraQuorum-Sensing Signaling Molecule. Journal of Bacteriology, 2002, 184, 1163-1171.	2.2	160
87	In vitro biosynthesis of the Pseudomonas aeruginosa quorum-sensing signal molecule N-butanoyl-L-homoserine lactone. Molecular Microbiology, 2002, 28, 193-203.	2.5	73
88	The hexA gene of Erwinia carotovora encodes a LysR homologue and regulates motility and the expression of multiple virulence determinants. Molecular Microbiology, 2002, 28, 705-717.	2.5	106
89	Erwinia carotovora has two KdgR-like proteins belonging to the IclR family of transcriptional regulators: identification and characterization of the RexZ activator and the KdgR repressor of pathogenesis. Microbiology (United Kingdom), 1999, 145, 1531-1545.	1.8	39
90	The hexY genes of Erwinia carotovora ssp. carotovora and ssp. atroseptica encode novel proteins that regulate virulence and motility co-ordinately. Environmental Microbiology, 1999, 1, 535-547.	3.8	27

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91	Molecular genetics of carbapenem antibiotic biosynthesis. Antonie Van Leeuwenhoek, 1999, 75, 135-141.	1.7	28
92	Characterization of the Erwinia chrysanthemi explâ€“expR locus directing the synthesis of two Nâ€acylâ€homoserine lactone signal molecules. Molecular Microbiology, 1998, 29, 1391-1405.	2.5	173
93	Integration of the quorumâ€sensing system in the regulatory networks controlling virulence factor synthesis inErwinia chrysanthemi. Molecular Microbiology, 1998, 29, 1407-1418.	2.5	99
94	Cryptic carbapenem antibiotic production genes are widespread in Erwinia carotovora: facile trans activation by the carR transcriptional regulator. Microbiology (United Kingdom), 1998, 144, 1495-1508.	1.8	47
95	The general secretion pathway of Erwinia carotovora subsp. carotovora: analysis of the membrane topology of OutC and OutF. Microbiology (United Kingdom), 1997, 143, 713-720.	1.8	63
96	A pleiotropic reduced virulence (Rvi?) mutant of Erwinia carotovora subspecies atroseptica is defective in flagella assembly proteins that are conserved in plant and animal bacterial pathogens. Molecular Microbiology, 1993, 9, 343-356.	2.5	84
97	Bacteriophage Î»-mediated transposon mutagenesis of phytopathogenic and epiphytic Erwinia species is strain dependent. Molecular Genetics and Genomics, 1989, 218, 491-498.	2.4	15
98	Transposon mutagenesis of Erwinia using phage Î» vectors. Molecular Genetics and Genomics, 1986, 203, 524-528.	2.4	38