

# George P C Salmond

## List of Publications by Year in descending order

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98  
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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	A century of the phage: past, present and future. <i>Nature Reviews Microbiology</i> , 2015, 13, 777-786.	28.6	537
2	The phage abortive infection system, ToxIN, functions as a proteinâ€“RNA toxinâ€“antitoxin pair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 894-899.	7.1	445
3	The biosynthesis and regulation of bacterial prodiginines. <i>Nature Reviews Microbiology</i> , 2006, 4, 887-899.	28.6	425
4	Phosphate availability regulates biosynthesis of two antibiotics, prodigiosin and carbapenem, in <i>Serratia</i> via both quorum-sensing-dependent and -independent pathways. <i>Molecular Microbiology</i> , 2003, 47, 303-320.	2.5	237
5	A widespread bacteriophage abortive infection system functions through a Type IV toxinâ€“antitoxin mechanism. <i>Nucleic Acids Research</i> , 2014, 42, 4590-4605.	14.5	228
6	Remarkable Mechanisms in Microbes to Resist Phage Infections. <i>Annual Review of Virology</i> , 2014, 1, 307-331.	6.7	226
7	Quorum Sensing Controls Adaptive Immunity through the Regulation of Multiple CRISPR-Cas Systems. <i>Molecular Cell</i> , 2016, 64, 1102-1108.	9.7	183
8	The <i>Serratia</i> gene cluster encoding biosynthesis of the red antibiotic, prodigiosin, shows species- and strain-dependent genome context variation. <i>Microbiology (United Kingdom)</i> , 2004, 150, 3547-3560.	1.8	182
9	Characterization of the <i>Erwinia chrysanthemi</i> <i>expR</i> locus directing the synthesis of two N-acyl-homoserine lactone signal molecules. <i>Molecular Microbiology</i> , 1998, 29, 1391-1405.	2.5	173
10	Nonenzymatic Turnover of an <i>Erwinia carotovora</i> Quorum-Sensing Signaling Molecule. <i>Journal of Bacteriology</i> , 2002, 184, 1163-1171.	2.2	160
11	Quorum sensing, virulence and secondary metabolite production in plant soft-rotting bacteria. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1165-1183.	4.0	140
12	Regulation and biosynthesis of carbapenem antibiotics in bacteria. <i>Nature Reviews Microbiology</i> , 2005, 3, 295-306.	28.6	135
13	Identification and classification of bacterial Type III toxinâ€“antitoxin systems encoded in chromosomal and plasmid genomes. <i>Nucleic Acids Research</i> , 2012, 40, 6158-6173.	14.5	129
14	Biosynthesis of tripyrrole and Î²-lactam secondary metabolites in <i>Serratia</i> : integration of quorum sensing with multiple new regulatory components in the control of prodigiosin and carbapenem antibiotic production. <i>Molecular Microbiology</i> , 2005, 56, 1495-1517.	2.5	125
15	A processed noncoding RNA regulates an altruistic bacterial antiviral system. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 185-190.	8.2	115
16	Viral Evasion of a Bacterial Suicide System by RNA-Based Molecular Mimicry Enables Infectious Altruism. <i>PLoS Genetics</i> , 2012, 8, e1003023.	3.5	108
17	The <i>hexA</i> gene of <i>Erwinia carotovora</i> encodes a LysR homologue and regulates motility and the expression of multiple virulence determinants. <i>Molecular Microbiology</i> , 2002, 28, 705-717.	2.5	106
18	Identification of the central quorum sensing regulator of virulence in the enteric phytopathogen, <i>Erwinia carotovora</i> : the <i>VirR</i> repressor. <i>Molecular Microbiology</i> , 2006, 59, 113-125.	2.5	105

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19	Integration of the quorum-sensing system in the regulatory networks controlling virulence factor synthesis in <i>Erwinia chrysanthemi</i> . <i>Molecular Microbiology</i> , 1998, 29, 1407-1418.	2.5	99
20	luxS mutants of <i>Serratia</i> defective in autoinducer-2-dependent "quorum sensing" show strain-dependent impacts on virulence and production of carbapenem and prodigiosin. <i>Microbiology (United Kingdom)</i> , 2004, 150, 1901-1910.	1.8	91
21	Sense codon reassignment enables viral resistance and encoded polymer synthesis. <i>Science</i> , 2021, 372, 1057-1062.	12.6	90
22	Balancing at survival's edge: the structure and adaptive benefits of prokaryotic toxin-antitoxin partners. <i>Current Opinion in Structural Biology</i> , 2011, 21, 109-118.	5.7	89
23	A pleiotropic reduced virulence (Rvi?) mutant of <i>Erwinia carotovora</i> subspecies <i>atroseptica</i> is defective in flagella assembly proteins that are conserved in plant and animal bacterial pathogens. <i>Molecular Microbiology</i> , 1993, 9, 343-356.	2.5	84
24	Bacterial Biosynthetic Gene Clusters Encoding the Anti-cancer Haterumalide Class of Molecules. <i>Journal of Biological Chemistry</i> , 2012, 287, 39125-39138.	3.4	80
25	Metabolic and regulatory engineering of <i>Serratia marcescens</i> : mimicking phage-mediated horizontal acquisition of antibiotic biosynthesis and quorum-sensing capacities. <i>Microbiology (United Kingdom)</i> , 2006, 152, 1899-1911.	1.8	79
26	A GntR family transcriptional regulator (PigT) controls gluconate-mediated repression and defines a new, independent pathway for regulation of the tripyrrole antibiotic, prodigiosin, in <i>Serratia</i> . <i>Microbiology (United Kingdom)</i> , 2005, 151, 3833-3845.	1.8	77
27	In vitro biosynthesis of the <i>Pseudomonas aeruginosa</i> quorum-sensing signal molecule N-butanoyl-L-homoserine lactone. <i>Molecular Microbiology</i> , 2002, 28, 193-203.	2.5	73
28	Carbapenem antibiotic biosynthesis in <i>Erwinia carotovora</i> is regulated by physiological and genetic factors modulating the quorum sensing-dependent control pathway. <i>Molecular Microbiology</i> , 2004, 55, 526-545.	2.5	73
29	Integrated regulation involving quorum sensing, a two-component system, a GGDEF/EAL domain protein and a post-transcriptional regulator controls swarming and RhlA-dependent surfactant biosynthesis in <i>Serratia</i> . <i>Environmental Microbiology</i> , 2008, 10, 1202-1217.	3.8	65
30	Virulence and Prodigiosin Antibiotic Biosynthesis in <i>Serratia</i> Are Regulated Pleiotropically by the GGDEF/EAL Domain Protein, PigX. <i>Journal of Bacteriology</i> , 2007, 189, 7653-7662.	2.2	64
31	The general secretion pathway of <i>Erwinia carotovora</i> subsp. <i>carotovora</i> : analysis of the membrane topology of OutC and OutF. <i>Microbiology (United Kingdom)</i> , 1997, 143, 713-720.	1.8	63
32	A generalized transducing phage (ÏF3) for the genomically sequenced <i>Serratia marcescens</i> strain Db11: a tool for functional genomics of an opportunistic human pathogen. <i>Microbiology (United Kingdom)</i> , 2006, 152, 1701-1708.	1.8	58
33	SdhE Is a Conserved Protein Required for Flavinylation of Succinate Dehydrogenase in Bacteria. <i>Journal of Biological Chemistry</i> , 2012, 287, 18418-18428.	3.4	58
34	Genetic and proteomic analysis of the role of luxS in the enteric phytopathogen, <i>Erwinia carotovora</i> . <i>Molecular Plant Pathology</i> , 2006, 7, 31-45.	4.2	57
35	Selectivity and self-assembly in the control of a bacterial toxin by an antitoxic noncoding RNA pseudoknot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E241-9.	7.1	57
36	The <i>Pseudomonas aeruginosa</i> generalized transducing phage ÏPA3 is a new member of the ÏKZ-like group of "jumbo" phages, and infects model laboratory strains and clinical isolates from cystic fibrosis patients. <i>Microbiology (United Kingdom)</i> , 2011, 157, 859-867.	1.8	56

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37	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
38	DsbA Plays a Critical and Multifaceted Role in the Production of Secreted Virulence Factors by the Phytopathogen <i>Erwinia carotovora</i> subsp. <i>atroseptica</i> . Journal of Biological Chemistry, 2008, 283, 23739-23753.	3.4	48
39	Cryptic carbapenem antibiotic production genes are widespread in <i>Erwinia carotovora</i> : facile trans activation by the <i>carR</i> transcriptional regulator. Microbiology (United Kingdom), 1998, 144, 1495-1508.	1.8	47
40	N-Acetylglucosamine-dependent biofilm formation in <i>Pectobacterium atrosepticum</i> is cryptic and activated by elevated c-di-GMP levels. Microbiology (United Kingdom), 2011, 157, 3340-3348.	1.8	47
41	Evolution of <i>Pectobacterium</i> Bacteriophage $\hat{1}$ 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
42	Biosynthesis of the antifungal haterumalide, oocydin $\langle \text{scp} \rangle \text{A} \langle / \text{scp} \rangle$ , in $\langle \text{scp} \rangle \text{S} \langle / \text{scp} \rangle$ $\langle \text{erratia} \langle / \text{erratia} \rangle$ , and its regulation by quorum sensing, $\langle \text{scp} \rangle \text{RpoS} \langle / \text{scp} \rangle$ and $\langle \text{scp} \rangle \text{Hfq} \langle / \text{scp} \rangle$ . Environmental Microbiology, 2015, 17, 2993-3008.	3.8	45
43	Molecular genetic and physical analysis of gas vesicles in buoyant enterobacteria. Environmental Microbiology, 2016, 18, 1264-1276.	3.8	45
44	Virulence in $\langle \text{scp} \rangle \text{P} \langle / \text{scp} \rangle$ <i>ectobacterium atrosepticum</i> $\langle / \text{erratia} \rangle$ is regulated by a coincidence circuit involving quorum sensing and the stress alarmone, (p)pp $\langle \text{scp} \rangle \text{G} \langle / \text{scp} \rangle$ pp. Molecular Microbiology, 2013, 90, 457-471.	2.5	44
45	The broad-spectrum antibiotic, zeamine, kills the nematode worm <i>Caenorhabditis elegans</i> . Frontiers in Microbiology, 2015, 6, 137.	3.5	44
46	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
47	Viunlikeviruses are environmentally common agents of horizontal gene transfer in pathogens and biocontrol bacteria. ISME Journal, 2014, 8, 2143-2147.	9.8	40
48	<i>Erwinia carotovora</i> 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
49	Biosynthesis of the acetyl-CoA carboxylase-inhibiting antibiotic, andrimid in $\langle \text{erratia} \rangle$ is regulated by Hfq and the LysR-type transcriptional regulator, AdmX. Environmental Microbiology, 2016, 18, 3635-3650.	3.8	39
50	Transposon mutagenesis of <i>Erwinia</i> using phage $\hat{1}$ vectors. Molecular Genetics and Genomics, 1986, 203, 524-528.	2.4	38
51	Structure, Evolution, and Functions of Bacterial Type III Toxin-Antitoxin Systems. Toxins, 2016, 8, 282.	3.4	38
52	CRISPR-Cas gene-editing reveals RsmA and RsmC act through FlhDC to repress the SdhE flavinylation factor and control motility and prodigiosin production in <i>Serratia</i> . Microbiology (United Kingdom), 2016, 162, 1047-1058.	1.8	38
53	The stationary phase sigma factor, RpoS, regulates the production of a carbapenem antibiotic, a bioactive prodigiosin and virulence in the enterobacterial pathogen <i>Serratia</i> sp. ATCC 39006. Microbiology (United Kingdom), 2012, 158, 648-658.	1.8	36
54	Environmental Bacteriophages of the Emerging Enterobacterial Phytopathogen, <i>Dickeya solani</i> , Show Genomic Conservation and Capacity for Horizontal Gene Transfer between Their Bacterial Hosts. Frontiers in Microbiology, 2017, 8, 1654.	3.5	36

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55	Citrobacter rodentium is an Unstable Pathogen Showing Evidence of Significant Genomic Flux. PLoS Pathogens, 2011, 7, e1002018.	4.7	35
56	The RNA chaperone, Hfq, controls two <i>luxR</i> -type regulators and plays a key role in pathogenesis and production of antibiotics in <i>Serratia</i> sp. ATCC 39006. Environmental Microbiology, 2011, 13, 2649-2666.	3.8	34
57	Bacteriophage $\phi$ -MAM1, a <i>Vi</i> na-likevirus, Is a Broad-Host-Range, High-Efficiency Generalized Transducer That Infects Environmental and Clinical Isolates of the Enterobacterial Genera <i>Serratia</i> and <i>Kluyvera</i> . Applied and Environmental Microbiology, 2014, 80, 6446-6457.	3.1	34
58	Mutations in <i>rpsL</i> that confer streptomycin resistance show pleiotropic effects on virulence and the production of a carbapenem antibiotic in <i>Erwinia carotovora</i> . Microbiology (United Kingdom), 2010, 156, 1030-1039.	1.8	34
59	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
60	Characterisation of PigC and HapC, the prodigiosin synthetases from <i>Serratia</i> sp. and <i>Hahella chejuensis</i> with potential for biocatalytic production of anticancer agents. Chemical Science, 2012, 3, 447-454.	7.4	30
61	Molecular genetics of carbapenem antibiotic biosynthesis. Antonie Van Leeuwenhoek, 1999, 75, 135-141.	1.7	28
62	The <i>hexY</i> genes of <i>Erwinia carotovora</i> ssp. <i>carotovora</i> and ssp. <i>atroseptica</i> encode novel proteins that regulate virulence and motility co-ordinately. Environmental Microbiology, 1999, 1, 535-547.	3.8	27
63	Engineering of new prodigiosin-based biosensors of <i>Serratia</i> for facile detection of short-chain <i>N</i> -acyl homoserine lactone quorum-sensing molecules. Environmental Microbiology Reports, 2010, 2, 322-328.	2.4	25
64	Co-evolution of quaternary organization and novel RNA tertiary interactions revealed in the crystal structure of a bacterial protein-RNA toxin-antitoxin system. Nucleic Acids Research, 2015, 43, 9529-9540.	14.5	24
65	A generalized transducing phage for the murine pathogen <i>Citrobacter rodentium</i> . Microbiology (United Kingdom), 2007, 153, 2984-2988.	1.8	21
66	Environmental T4-Family Bacteriophages Evolve to Escape Abortive Infection via Multiple Routes in a Bacterial Host Employing Altruistic Suicide through Type III Toxin-Antitoxin Systems. Frontiers in Microbiology, 2017, 8, 1006.	3.5	21
67	The <i>Lacl</i> -Family Transcription Factor, <i>RbsR</i> , Is a Pleiotropic Regulator of Motility, Virulence, Siderophore and Antibiotic Production, Gas Vesicle Morphogenesis and Flotation in <i>Serratia</i> . Frontiers in Microbiology, 2017, 8, 1678.	3.5	20
68	Draft Genome Sequence of <i>Serratia</i> 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
69	Jumbo Bacteriophages Are Represented Within an Increasing Diversity of Environmental Viruses Infecting the Emerging Phytopathogen, <i>Dickeya solani</i> . Frontiers in Microbiology, 2018, 9, 2169.	3.5	19
70	The Prophages of <i>Citrobacter rodentium</i> Represent a Conserved Family of Horizontally Acquired Mobile Genetic Elements Associated with Enteric Evolution towards Pathogenicity. Journal of Bacteriology, 2019, 201, .	2.2	19
71	Identification of genes in the <i>VirR</i> regulon of <i>Pectobacterium atrosepticum</i> and characterization of their roles in quorum sensing-dependent virulence. Environmental Microbiology, 2013, 15, 687-701.	3.8	18
72	Genome Sequence of <i>Serratia plymuthica</i> A153, a Model Rhizobacterium for the Investigation of the Synthesis and Regulation of Haterumalides, Zeamine, and Andrimid. Genome Announcements, 2016, 4, .	0.8	17

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73	Quorum sensing-controlled buoyancy through gas vesicles: Intracellular bacterial microcompartments for environmental adaptation. <i>Communicative and Integrative Biology</i> , 2012, 5, 96-98.	1.4	16
74	Bacteriophage $\lambda$ -mediated transposon mutagenesis of phytopathogenic and epiphytic <i>Erwinia</i> species is strain dependent. <i>Molecular Genetics and Genomics</i> , 1989, 218, 491-498.	2.4	15
75	A Metabolic Regulator Modulates Virulence and Quorum Sensing Signal Production in <i>Pectobacterium atrosepticum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 356-366.	2.6	14
76	Microbial gas vesicles as nanotechnology tools: exploiting intracellular organelles for translational utility in biotechnology, medicine and the environment. <i>Microbiology (United Kingdom)</i> , 2020, 166, 501-509.	1.8	14
77	A Plasmid-Transposon Hybrid Mutagenesis System Effective in a Broad Range of Enterobacteria. <i>Frontiers in Microbiology</i> , 2015, 6, 1442.	3.5	13
78	Genome Sequence of <i>Serratia marcescens</i> MSU97, a Plant-Associated Bacterium That Makes Multiple Antibiotics. <i>Genome Announcements</i> , 2017, 5, .	0.8	13
79	Quorum sensing-controlled <i>Evr</i> regulates a conserved cryptic pigment biosynthetic cluster and a novel phenomycin-like locus in the plant pathogen, <i>Pectobacterium carotovorum</i> . <i>Environmental Microbiology</i> , 2010, 12, 1811-1827.	3.8	12
80	Genomics of the Argentinian cholera epidemic elucidate the contrasting dynamics of epidemic and endemic <i>Vibrio cholerae</i> . <i>Nature Communications</i> , 2020, 11, 4918.	12.8	12
81	Overproduction of individual gas vesicle proteins perturbs flotation, antibiotic production and cell division in the enterobacterium <i>Serratia</i> sp. ATCC 39006. <i>Microbiology (United Kingdom)</i> , 2016, 162, 1595-1607.	1.8	10
82	Viral molecular mimicry circumvents abortive infection and suppresses bacterial suicide to make hosts permissive for replication. <i>Bacteriophage</i> , 2012, 2, e23830.	1.9	9
83	Complete Genome Sequence of <i>Serratia plymuthica</i> Bacteriophage $\lambda$ -MAM1. <i>Journal of Virology</i> , 2012, 86, 13872-13873.	3.4	8
84	A Type III protein-RNA toxin-antitoxin system from <i>Bacillus thuringiensis</i> promotes plasmid retention during spore development. <i>RNA Biology</i> , 2015, 12, 933-937.	3.1	8
85	Substrate Flexibility of the Flavin-Dependent Dihydropyrrrole Oxidases <i>PigB</i> and <i>HapB</i> Involved in Antibiotic Prodigiosin Biosynthesis. <i>ChemBioChem</i> , 2020, 21, 523-530.	2.6	8
86	Ambigols from the Cyanobacterium <i>Fischerella ambigua</i> Increase Prodigiosin Production in <i>Serratia</i> spp. <i>ACS Chemical Biology</i> , 2020, 15, 2929-2936.	3.4	8
87	Environmental potassium regulates bacterial flotation, antibiotic production and turgor pressure in <i>Serratia</i> through the <i>TrkH</i> transporter. <i>Environmental Microbiology</i> , 2019, 21, 2499-2510.	3.8	7
88	Bacteriophage host range evolution through engineered enrichment bias, exploiting heterologous surface receptor expression. <i>Environmental Microbiology</i> , 2020, 22, 5207-5221.	3.8	6
89	Exploitation of a $\beta$ -lactamase reporter gene fusion in the carbapenem antibiotic production operon to study adaptive evolution in <i>Erwinia carotovora</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 1089-1097.	1.8	4
90	Genome Sequence of the Oocycin A-Producing Rhizobacterium <i>Serratia plymuthica</i> 4Rx5. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	4

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91	Draft Genome Sequence of <i>Pectobacterium carotovorum</i> subsp. <i>carotovorum</i> ATCC 39048, a Carbapenem-Producing Phytopathogen. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	4
92	Complete Genome Sequences of Two <i>Citrobacter rodentium</i> Bacteriophages, CR8 and CR44b. <i>Genome Announcements</i> , 2014, 2, .	0.8	3
93	The <i>rsmS</i> ( <i>ybaM</i> ) mutation causes bypass suppression of the <i>RsmAB</i> post-transcriptional virulence regulation system in enterobacterial phytopathogens. <i>Scientific Reports</i> , 2019, 9, 4525.	3.3	3
94	The <i>FloR</i> master regulator controls flotation, virulence and antibiotic production in <i>Serratia</i> sp. ATCC 39006. <i>Environmental Microbiology</i> , 2020, 22, 2921-2938.	3.8	2
95	1.8Å resolution crystal structure of the carbapenem intrinsic resistance protein CarF. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 549-556.	2.3	1
96	Bacteriophage applications: current and potential applications in biotechnology, agriculture and medicine. <i>Future Microbiology</i> , 2006, 1, 171-173.	2.0	0
97	Draft Genome Sequences of <i>Enterobacter cloacae</i> Strains CAPREx E7 and CAPREx E2-2. <i>Genome Announcements</i> , 2017, 5, .	0.8	0
98	Draft Genome Sequences of <i>Serratia marcescens</i> Strains CAPREx SY13 and CAPREx SY21 Isolated from Yams. <i>Genome Announcements</i> , 2017, 5, .	0.8	0