

# Roy Gross

## List of Publications by Year in descending order

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75  
papers

5,168  
citations

76196

40  
h-index

91712

69  
g-index

77  
all docs

77  
docs citations

77  
times ranked

4276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of bacterial virulence by two-component systems. <i>Current Opinion in Microbiology</i> , 2006, 9, 143-152.	2.3	371
2	The genome sequence of <i>Blochmannia floridanus</i> : Comparative analysis of reduced genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9388-9393.	3.3	338
3	Sequences required for expression of <i>Bordetella pertussis</i> virulence factors share homology with prokaryotic signal transduction proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 6671-6675.	3.3	306
4	Metabolic Interdependence of Obligate Intracellular Bacteria and Their Insect Hosts. <i>Microbiology and Molecular Biology Reviews</i> , 2004, 68, 745-770.	2.9	259
5	Nutritional upgrading for omnivorous carpenter ants by the endosymbiont <i>Blochmannia</i> . <i>BMC Biology</i> , 2007, 5, 48.	1.7	244
6	Families of bacterial signal-transducing proteins. <i>Molecular Microbiology</i> , 1989, 3, 1661-1667.	1.2	187
7	Intracellular endosymbiotic bacteria of <i>Camponotus</i> species (carpenter ants): systematics, evolution and ultrastructural characterization. <i>Molecular Microbiology</i> , 1996, 21, 479-489.	1.2	142
8	Signalling pathways in two-component phosphorelay systems. <i>Trends in Microbiology</i> , 1999, 7, 115-120.	3.5	136
9	Identification of Immunodominant Antigens from <i>Helicobacter pylori</i> and Evaluation of Their Reactivities with Sera from Patients with Different Gastrointestinal Pathologies. <i>Infection and Immunity</i> , 2000, 68, 915-920.	1.0	119
10	Positive regulation of pertussis toxin expression.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 3913-3917.	3.3	111
11	The virulence regulator protein of <i>Listeria ivanovii</i> is highly homologous to PrfA from <i>Listeria monocytogenes</i> and both belong to the Crp-Fnr family of transcription regulators. <i>Molecular Microbiology</i> , 1994, 13, 141-151.	1.2	98
12	Evolutionary relationships in the genus <i>Bordetella</i> . <i>Molecular Microbiology</i> , 1987, 1, 301-308.	1.2	92
13	Plasmid and chromosomal mutants in the iron(III)-aerobactin transport system of <i>Escherichia coli</i> . Use of streptonigrin for selection. <i>Molecular Genetics and Genomics</i> , 1983, 192, 131-139.	2.4	90
14	Analysis of and function predictions for previously conserved hypothetical or putative proteins in <i>Blochmannia floridanus</i> . <i>BMC Microbiology</i> , 2006, 6, 1.	1.3	87
15	Evolutionary trends in the genus <i>Bordetella</i> . <i>Microbes and Infection</i> , 2001, 3, 61-72.	1.0	86
16	The Lipopolysaccharide of <i>Bordetella bronchiseptica</i> Acts as a Protective Shield against Antimicrobial Peptides. <i>Infection and Immunity</i> , 1998, 66, 5607-5612.	1.0	86
17	The missing link: <i>Bordetella petrii</i> is endowed with both the metabolic versatility of environmental bacteria and virulence traits of pathogenic <i>Bordetellae</i> . <i>BMC Genomics</i> , 2008, 9, 449.	1.2	85
18	Bacterial microbiota associated with ants of the genus <i>Tetraponera</i> . <i>Biological Journal of the Linnean Society</i> , 2007, 90, 399-412.	0.7	82

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19	Immune reactions of insects on bacterial pathogens and mutualists. <i>Microbes and Infection</i> , 2008, 10, 1082-1088.	1.0	82
20	Insights into the microbial world associated with ants. <i>Archives of Microbiology</i> , 2005, 184, 199-206.	1.0	80
21	Immunity and symbiosis. <i>Molecular Microbiology</i> , 2009, 73, 751-759.	1.2	80
22	Identification of the genes and their polypeptide products responsible for aerobactin synthesis by pColV plasmids. <i>Molecular Genetics and Genomics</i> , 1985, 201, 204-212.	2.4	79
23	Tissue Localization of the Endosymbiotic Bacterium <i>Candidatus Blochmannia floridanus</i> in Adults and Larvae of the Carpenter Ant <i>Camponotus floridanus</i> . <i>Applied and Environmental Microbiology</i> , 2002, 68, 4187-4193.	1.4	79
24	Bacteriocyte dynamics during development of a holometabolous insect, the carpenter ant <i>Camponotus floridanus</i> . <i>BMC Microbiology</i> , 2010, 10, 308.	1.3	72
25	Intracellular survival strategies of mutualistic and parasitic prokaryotes. <i>Trends in Microbiology</i> , 2001, 9, 267-273.	3.5	71
26	Insects as hosts for mutualistic bacteria. <i>International Journal of Medical Microbiology</i> , 2009, 299, 1-8.	1.5	70
27	Relevance of the Endosymbiosis of <i>Blochmannia floridanus</i> and Carpenter Ants at Different Stages of the Life Cycle of the Host. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6027-6033.	1.4	69
28	Specificity of the BvgAS and EvgAS phosphorelay is mediated by the C-terminal HPt domains of the sensor proteins. <i>Molecular Microbiology</i> , 1998, 27, 875-887.	1.2	65
29	The unorthodox histidine kinases BvgS and EvgS are responsive to the oxidation status of a quinone electron carrier. <i>FEBS Journal</i> , 2002, 269, 3479-3484.	0.2	63
30	Versatile roles of the chaperonin GroEL in microorganism-insect interactions. <i>FEMS Microbiology Letters</i> , 2014, 353, 1-10.	0.7	63
31	Replication of the Endosymbiotic Bacterium <i>Blochmannia floridanus</i> Is Correlated with the Developmental and Reproductive Stages of Its Ant Host. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4096-4102.	1.4	62
32	In Vivo Characterization of the Unorthodox BvgS Two-component Sensor Protein of <i>Bordetella pertussis</i> . <i>Journal of Molecular Biology</i> , 1995, 248, 596-610.	2.0	61
33	Endosymbiont Tolerance and Control within Insect Hosts. <i>Insects</i> , 2012, 3, 553-572.	1.0	59
34	An engineered 3D human airway mucosa model based on an SIS scaffold. <i>Biomaterials</i> , 2014, 35, 7355-7362.	5.7	59
35	Pertussis toxin promoter sequences involved in modulation. <i>Journal of Bacteriology</i> , 1989, 171, 4026-4030.	1.0	57
36	Genetic and biochemical characterization of the aerobactin synthesis operon on pColV. <i>Molecular Genetics and Genomics</i> , 1984, 196, 74-80.	2.4	55

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37	Transcriptional profiling of the endosymbiont <i>Blochmannia floridanus</i> during different developmental stages of its holometabolous ant host. <i>Environmental Microbiology</i> , 2009, 11, 877-888.	1.8	47
38	Effect of mutations causing overexpression of RNA polymerase alpha subunit on regulation of virulence factors in <i>Bordetella pertussis</i> . <i>Journal of Bacteriology</i> , 1994, 176, 7267-7273.	1.0	45
39	A new gene locus of <i>Bordetella pertussis</i> defines a novel family of prokaryotic transcriptional accessory proteins. <i>Journal of Bacteriology</i> , 1996, 178, 4445-4452.	1.0	42
40	Transcriptional profiling of <i>Bordetella pertussis</i> reveals requirement of RNA chaperone Hfq for Type III secretion system functionality. <i>RNA Biology</i> , 2015, 12, 175-185.	1.5	42
41	Gene expression analysis of the endosymbiont-bearing midgut tissue during ontogeny of the carpenter ant <i>Camponotus floridanus</i> . <i>Journal of Insect Physiology</i> , 2013, 59, 611-623.	0.9	41
42	Phagosome Acidification Has Opposite Effects on Intracellular Survival of <i>Bordetella pertussis</i> and <i>B. bronchiseptica</i> . <i>Infection and Immunity</i> , 2000, 68, 7039-7048.	1.0	40
43	Phase variation affects long-term survival of <i>Bordetella bronchiseptica</i> in professional phagocytes. <i>Infection and Immunity</i> , 1997, 65, 3469-3473.	1.0	40
44	Genetics of pertussis toxin. <i>Molecular Microbiology</i> , 1989, 3, 119-124.	1.2	39
45	Cloning and characterization of an Mn-containing superoxide dismutase (SodA) of <i>Bordetella pertussis</i> . <i>Journal of Bacteriology</i> , 1997, 179, 2194-2201.	1.0	39
46	Genomic island excisions in <i>Bordetella petrii</i> . <i>BMC Microbiology</i> , 2009, 9, 141.	1.3	39
47	Microsatellites reveal clonal structure of populations of the thelytokous ant <i>Platythyrea punctata</i> (F. Smith) (Hymenoptera; Formicidae). <i>Molecular Ecology</i> , 1999, 8, 1497-1507.	2.0	37
48	Identification and characterization of two functional domains of the hemolysin translocator protein HlyD. <i>Molecular Genetics and Genomics</i> , 1994, 245, 203-211.	2.4	36
49	Resemblance and divergence: the "new" members of the genus <i>Bordetella</i> . <i>Medical Microbiology and Immunology</i> , 2010, 199, 155-163.	2.6	36
50	Immune response of the ant <i>Camponotus floridanus</i> against pathogens and its obligate mutualistic endosymbiont. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 529-536.	1.2	36
51	Scrutinizing the immune defence inventory of <i>Camponotus floridanus</i> applying total transcriptome sequencing. <i>BMC Genomics</i> , 2015, 16, 540.	1.2	33
52	A phase variant of <i>Bordetella pertussis</i> with a mutation in a new locus involved in the regulation of pertussis toxin and adenylate cyclase toxin expression. <i>Journal of Bacteriology</i> , 1993, 175, 6679-6688.	1.0	32
53	Characterization of a <i>Bordetella pertussis</i> Diaminopimelate (DAP) Biosynthesis Locus Identifies <i>dapC</i> , a Novel Gene Coding for an N-Succinyl-L-DAP Aminotransferase. <i>Journal of Bacteriology</i> , 2000, 182, 3626-3631.	1.0	30
54	New insights into symbiotic associations between ants and bacteria. <i>Research in Microbiology</i> , 2000, 151, 513-519.	1.0	30

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55	The BvgAS two-component system of <i>Bordetella</i> spp.: a versatile modulator of virulence gene expression. <i>International Journal of Medical Microbiology</i> , 2001, 291, 119-130.	1.5	30
56	Dimerization of signalling modules of the EvgAS and BvgAS phosphorelay systems. <i>BBA - Proteins and Proteomics</i> , 2000, 1478, 341-354.	2.1	25
57	Systemic gene knockdown in <i>Camponotus floridanus</i> workers by feeding of dsRNA. <i>Insectes Sociaux</i> , 2013, 60, 475-484.	0.7	25
58	Global regulatory mechanisms affect virulence gene expression in <i>Bordetella pertussis</i> . <i>Molecular Genetics and Genomics</i> , 1995, 247, 86-94.	2.4	24
59	Distribution of the obligate endosymbiont <i>Blochmannia floridanus</i> and expression analysis of putative immune genes in ovaries of the carpenter ant <i>Camponotus floridanus</i> . <i>Arthropod Structure and Development</i> , 2016, 45, 475-487.	0.8	24
60	Conserved sequence motifs in the unorthodox BvgS two-component sensor protein of <i>Bordetella pertussis</i> . <i>Molecular Genetics and Genomics</i> , 1996, 252, 169-176.	2.4	22
61	Molecular Characterization of Antimicrobial Peptide Genes of the Carpenter Ant <i>Camponotus floridanus</i> . <i>PLoS ONE</i> , 2012, 7, e43036.	1.1	21
62	Expression of bacterial cytotoxin genes in mammalian target cells. <i>Molecular Microbiology</i> , 1992, 6, 2651-2659.	1.2	18
63	Representational difference analysis identifies a strain-specific LPS biosynthesis locus in <i>Bordetella</i> spp.. <i>Molecular Genetics and Genomics</i> , 1999, 262, 189-198.	2.4	18
64	An antibiotic target ranking and prioritization pipeline combining sequence, structure and network-based approaches exemplified for <i>Serratia marcescens</i> . <i>Gene</i> , 2016, 591, 268-278.	1.0	17
65	Identification and regulation of expression of a gene encoding a filamentous hemagglutinin-related protein in <i>Bordetella holmesii</i> . <i>BMC Microbiology</i> , 2007, 7, 100.	1.3	14
66	Functional analysis of the pertussis toxin promoter. <i>Research in Microbiology</i> , 1992, 143, 671-681.	1.0	13
67	Promoter Characterization in the AT-Rich Genome of the Obligate Endosymbiont <i>Candidatus</i> <i>Blochmannia floridanus</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3747-3751.	1.0	13
68	Identification and genomic organization of gene loci negatively controlled by the virulence regulatory BvgAS two-component system in <i>Bordetella bronchiseptica</i> . <i>Molecular Genetics and Genomics</i> , 2002, 267, 526-535.	1.0	11
69	Domain structure of the outer membrane transporter protein CyaE of <i>Bordetella pertussis</i> . <i>Molecular Microbiology</i> , 1995, 17, 1219-1220.	1.2	10
70	Rational design and molecular characterization of a chimaeric response regulator protein. <i>Journal of Molecular Biology</i> , 2001, 310, 283-290.	2.0	10
71	Development and characterization of attenuated metabolic mutants of <i>Bordetella bronchiseptica</i> for applications in vaccinology. <i>Environmental Microbiology</i> , 2013, 15, 64-76.	1.8	9
72	Structure-function relationships in the Bvg and Evg two-component phosphorelay systems. <i>International Journal of Medical Microbiology</i> , 2000, 290, 317-323.	1.5	8

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73	Molecular characterization of the BvgA response regulator of <i>Bordetella holmesii</i> . <i>Microbiological Research</i> , 2009, 164, 243-252.	2.5	8
74	Phg, a novel member of the autotransporter family present in <i>Bordetella</i> species. <i>Microbiological Research</i> , 2005, 160, 329-336.	2.5	5
75	JANE: efficient mapping of prokaryotic ESTs and variable length sequence reads on related template genomes. <i>BMC Bioinformatics</i> , 2009, 10, 391.	1.2	5