Rudy Antoine

List of Publications by Year
in descending order

41 papers	2,086 citations	331670 21 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	2353 citing authors

#	Article	IF	Citations
1	Isolation and molecular characterization of a novel broad-host-range plasmid from Bordetella bronchiseptica with sequence similarities to plasmids from Gram-positive organisms. Molecular Microbiology, 1992, 6, 1785-1799.	2.5	243
2	Twoâ€partner secretion in Gramâ€negative bacteria: a thrifty, specific pathway for large virulence proteins. Molecular Microbiology, 2001, 40, 306-313.	2.5	241
3	Structural insights into the signalling mechanisms of two-component systems. Nature Reviews Microbiology, 2018, 16, 585-593.	28.6	182
4	A sister lineage of the Mycobacterium tuberculosis complex discovered in the African Great Lakes region. Nature Communications, 2020, 11, 2917.	12.8	136
5	Subtilisin-like autotransporter serves as maturation protease in a bacterial secretion pathway. EMBO Journal, 2001, 20, 5040-5048.	7.8	122
6	Reversion of antibiotic resistance in Mycobacterium tuberculosis by spiroisoxazoline SMARt-420. Science, 2017, 355, 1206-1211.	12.6	119
7	Bordetella pertussis, molecular pathogenesis under multiple aspects. Current Opinion in Microbiology, 2001, 4, 82-89.	5.1	98
8	New Virulence-Activated and Virulence-Repressed Genes Identified by Systematic Gene Inactivation and Generation of Transcriptional Fusions in Bordetella pertussis. Journal of Bacteriology, 2000, 182, 5902-5905.	2.2	91
9	Homologous and heterologous protection after single intranasal administration of live attenuated recombinant Bordetella pertussis. Nature Biotechnology, 1998, 16, 454-457.	17.5	69
10	Overrepresentation of a Gene Family Encoding Extracytoplasmic Solute Receptors in Bordetella. Journal of Bacteriology, 2003, 185, 1470-1474.	2.2	64
11	The Periplasmic Binding Protein of a Tripartite Tricarboxylate Transporter is Involved in Signal Transduction. Journal of Molecular Biology, 2005, 351, 799-809.	4.2	61
12	Surface anchoring of bacterial subtilisin important for maturation function. Molecular Microbiology, 2003, 49, 529-539.	2.5	60
13	Temporal analysis of French Bordetella pertussis isolates by comparative whole-genome hybridization. Microbes and Infection, 2006, 8, 2228-2235.	1.9	52
14	Virulence Regulation with Venus Flytrap Domains: Structure and Function of the Periplasmic Moiety of the Sensor-Kinase BvgS. PLoS Pathogens, 2015, 11, e1004700.	4.7	51
15	Periplasmic domain of the sensor-kinase BvgS reveals a new paradigm for the Venus flytrap mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17351-17355.	7.1	48
16	Crystal Structure of Bordetella pertussis BugD Solute Receptor Unveils the Basis of Ligand Binding in a New Family of Periplasmic Binding Proteins. Journal of Molecular Biology, 2006, 356, 1014-1026.	4.2	42
17	The multifaceted RisA regulon of Bordetella pertussis. Scientific Reports, 2016, 6, 32774.	3.3	42
18	Primary transcriptome analysis reveals importance of IS elements for the shaping of the transcriptional landscape ofBordetella pertussis. RNA Biology, 2018, 15, 967-975.	3.1	32

#	Article	IF	Citations
19	Characterization of the PAS domain in the sensor-kinase BvgS: mechanical role in signal transmission. BMC Microbiology, 2013, 13, 172.	3.3	31
20	Molecular Evolution of the Two-Component System BvgAS Involved in Virulence Regulation in Bordetella. PLoS ONE, 2009, 4, e6996.	2.5	25
21	Coiled-Coil Antagonism Regulates Activity of Venus Flytrap-Domain-Containing Sensor Kinases of the BvgS Family. MBio, 2018, 9, .	4.1	23
22	Detection of small RNAs in Bordetella pertussis and identification of a novel repeated genetic element. BMC Genomics, 2011, 12, 207.	2.8	22
23	Conformational Changes of an Interdomain Linker Mediate Mechanical Signal Transmission in Sensor Kinase BvgS. Journal of Bacteriology, 2017, 199, .	2.2	22
24	Characterization of the type III secretion locus of Bordetella pertussis. International Journal of Medical Microbiology, 2001, 290, 693-705.	3.6	21
25	Production of Neisseria meningitidisTransferrin-Binding Protein B by RecombinantBordetella pertussis. Infection and Immunity, 2001, 69, 5440-5446.	2.2	20
26	Structural analysis ofBordetella pertussisBugE solute receptor in a bound conformation. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1375-1381.	2.5	20
27	Signal Transduction by BvgS Sensor Kinase. Journal of Biological Chemistry, 2015, 290, 23307-23319.	3.4	19
28	Crystal Structures of two Bordetella pertussis Periplasmic Receptors Contribute to Defining a Novel Pyroglutamic Acid Binding DctP Subfamily. Journal of Molecular Biology, 2007, 370, 93-106.	4.2	16
29	Parallel in vivo experimental evolution reveals that increased stress resistance was key for the emergence of persistent tuberculosis bacilli. Nature Microbiology, 2021, 6, 1082-1093.	13.3	15
30	The History of Pertussis Toxin. Toxins, 2021, 13, 623.	3.4	14
31	Bordetella pertussis: from functional genomics to intranasal vaccination. International Journal of Medical Microbiology, 2004, 293, 583-588.	3.6	13
32	Autotransporter proteins, evolution and redefining protein secretion: Response. Trends in Microbiology, 2000, 8, 533-534.	7.7	10
33	Combined RNAseq and ChIPseq Analyses of the BvgA Virulence Regulator of Bordetella pertussis. MSystems, 2020, 5, .	3.8	10
34	The small-molecule SMARt751 reverses Mycobacterium tuberculosis resistance to ethionamide in acute and chronic mouse models of tuberculosis. Science Translational Medicine, 2022, 14, eaaz6280.	12.4	10
35	Posttranscriptional Regulation by Copper with a New Upstream Open Reading Frame. MBio, 2022, 13, .	4.1	9
36	Streamlined copper defenses make Bordetella pertussis reliant on custom-made operon. Communications Biology, 2021, 4, 46.	4.4	8

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37	Genetic exchange of the S2 and S3 subunits in pertussis toxin. Molecular Microbiology, 2006, 60, 1241-1250.	2.5	5
38	Distinct virulence ranges for infection of mice by Bordetella pertussis revealed by engineering of the sensor-kinase BvgS. PLoS ONE, 2018, 13, e0204861.	2.5	4
39	Characterization of a Bvg-regulated fatty acid methyl-transferase in Bordetella pertussis. PLoS ONE, 2017, 12, e0176396.	2.5	4
40	Crystallization and preliminary X-ray diffraction analysis of two extracytoplasmic solute receptors of the DctP family fromBordetella pertussis. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 970-972.	0.7	1
41	Structural Insight into the Role of the PAS Domain for Signal Transduction in Sensor Kinase BvgS. Journal of Bacteriology, 2021, 203, .	2.2	1