Paulo Tavares

List of Publications by Year
in descending order

51	2,519	159358	197535
papers	citations	30	49
		h-index	g-index

52	52	52	1558
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural framework for DNA translocation via the viral portal protein. EMBO Journal, 2007, 26, 1984-1994.	3.5	207
2	Automated classification of tailed bacteriophages according to their neck organization. BMC Genomics, 2014, 15, 1027.	1.2	203
3	Structure of a viral DNA gatekeeper at 10 A resolution by cryo-electron microscopy. EMBO Journal, 2003, 22, 1255-1262.	3.5	124
4	Structure of bacteriophage SPP1 tail reveals trigger for DNA ejection. EMBO Journal, 2007, 26, 3720-3728.	3.5	120
5	Structure of bacteriophage SPP1 head-to-tail connection reveals mechanism for viral DNA gating. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8507-8512.	3.3	107
6	The Ectodomain of the Viral Receptor YueB Forms a Fiber That Triggers Ejection of Bacteriophage SPP1 DNA. Journal of Biological Chemistry, 2006, 281, 11464-11470.	1.6	94
7	Structural organisation of the head-to-tail interface of a bacterial virus 1 1Edited by T. Richmond. Journal of Molecular Biology, 2001, 310, 1027-1037.	2.0	88
8	Identification of a gene in Bacillus subtilis bacteriophage SPP1 determining the amount of packaged DNA. Journal of Molecular Biology, 1992, 225, 81-92.	2.0	85
9	Pressure Built by DNA Packing Inside Virions: Enough to Drive DNA Ejection in Vitro, Largely Insufficient for Delivery into the Bacterial Cytoplasm. Journal of Molecular Biology, 2007, 374, 346-355.	2.0	70
10	Crystal Structure of Bacteriophage SPP1 Distal Tail Protein (gp19.1). Journal of Biological Chemistry, 2010, 285, 36666-36673.	1.6	70
11	Headful DNA packaging: Bacteriophage SPP1 as a model system. Virus Research, 2013, 173, 247-259.	1.1	70
12	Structure of the 13-fold symmetric portal protein of bacteriophage SPP1. Nature Structural Biology, 1999, 6, 842-846.	9.7	62
13	The portal protein plays essential roles at different steps of the SPP1 DNA packaging process. Virology, 2004, 322, 253-263.	1.1	62
14	Role of bacteriophage SPP1 tail spike protein gp21 on host cell receptor binding and trigger of phage DNA ejection. Molecular Microbiology, 2012, 83, 289-303.	1.2	61
15	Shape and DNA packaging activity of bacteriophage SPP1 procapsid: protein components and interactions during assembly 1 1Edited by J. Karn. Journal of Molecular Biology, 2000, 296, 117-132.	2.0	58
16	Bacillus subtilis Bacteriophage SPP1 DNA Packaging Motor Requires Terminase and Portal Proteins. Journal of Biological Chemistry, 2003, 278, 23251-23259.	1.6	58
17	The nuclease domain of the SPP1 packaging motor coordinates DNA cleavage and encapsidation. Nucleic Acids Research, 2013, 41, 340-354.	6.5	57
18	Sequential Headful Packaging and Fate of the Cleaved DNA Ends in Bacteriophage SPP1. Journal of Molecular Biology, 1996, 264, 954-967.	2.0	54

#	Article	IF	Citations
19	Head morphogenesis genes of the Bacillus subtilis Bacteriophage SPP1. Journal of Molecular Biology, 1997, 268, 822-839.	2.0	53
20	Structural rearrangements in the phage head-to-tail interface during assembly and infection. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7009-7014.	3.3	53
21	Structural Rearrangements between Portal Protein Subunits Are Essential for Viral DNA Translocation. Journal of Biological Chemistry, 2007, 282, 18907-18913.	1.6	49
22	Capsid Structure and Its Stability at the Late Stages of Bacteriophage SPP1 Assembly. Journal of Virology, 2012, 86, 6768-6777.	1.5	46
23	In vitro Packaging of DNA of the Bacillus subtilis bacteriophage SPP1 1 1Edited by J. Karn. Journal of Molecular Biology, 2000, 296, 103-115.	2.0	44
24	Origin and function of the two major tail proteins of bacteriophage SPP1. Molecular Microbiology, 2008, 70, 557-569.	1.2	44
25	A Defined in Vitro System for DNA Packaging by the Bacteriophage SPP1: Insights into the Headful Packaging Mechanism. Journal of Molecular Biology, 2005, 353, 529-539.	2.0	41
26	Bacteriophage Infection in Rod-Shaped Gram-Positive Bacteria: Evidence for a Preferential Polar Route for Phage SPP1 Entry in Bacillus subtilis. Journal of Bacteriology, 2011, 193, 4893-4903.	1.0	40
27	The Opening of the SPP1 Bacteriophage Tail, a Prevalent Mechanism in Gram-positive-infecting Siphophages. Journal of Biological Chemistry, 2011, 286, 25397-25405.	1.6	40
28	The high-resolution functional map of bacteriophage SPP1 portal protein. Molecular Microbiology, 2004, 51, 949-962.	1.2	39
29	Genome Gating in Tailed Bacteriophage Capsids. Advances in Experimental Medicine and Biology, 2012, 726, 585-600.	0.8	39
30	Modulation of the Viral ATPase Activity by the Portal Protein Correlates with DNA Packaging Efficiency. Journal of Biological Chemistry, 2006, 281, 21914-21923.	1.6	31
31	Direct Interaction of the Bacteriophage SPP1 Packaging ATPase with the Portal Protein. Journal of Biological Chemistry, 2010, 285, 7366-7373.	1.6	31
32	The minor capsid protein gp7 of bacteriophage SPP1 is required for efficient infection of Bacillus subtilis. Molecular Microbiology, 2006, 61, 1609-1621.	1.2	30
33	The Bacteriophage Head-to-Tail Interface. Sub-Cellular Biochemistry, 2018, 88, 305-328.	1.0	29
34	Bacteriophage SPP1 Tail Tube Protein Self-assembles into Î²-Structure-rich Tubes. Journal of Biological Chemistry, 2015, 290, 3836-3849.	1.6	24
35	Oligomerization of the SPP1 Scaffolding Protein. Journal of Molecular Biology, 2008, 378, 551-564.	2.0	21
36	First steps of bacteriophage SPP1 entry into Bacillus subtilis. Virology, 2012, 422, 425-434.	1.1	21

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37	Structural transitions during the scaffolding-driven assembly of a viral capsid. Nature Communications, 2019, 10, 4840.	5.8	21
38	The SPP1 connection. FEMS Microbiology Reviews, 1995, 17, 47-56.	3.9	20
39	Effect of the ionic environment on the molecular structure of bacteriophage SPP1 portal protein. FEBS Journal, 1999, 264, 724-735.	0.2	19
40	Specific targeting of a DNA-binding protein to the SPP1 procapsid by interaction with the portal oligomer. Molecular Microbiology, 2003, 49, 1201-1212.	1.2	15
41	Solution structure of gp17 from the Siphoviridae bacteriophage SPP1: Insights into its role in virion assembly. Proteins: Structure, Function and Bioinformatics, 2012, 80, 319-326.	1.5	15
42	Bacteriophage SPP1 pac Cleavage: A Precise Cut without Sequence Specificity Requirement. Journal of Molecular Biology, 2017, 429, 1381-1395.	2.0	14
43	The Revisited Genome of Bacillus subtilis Bacteriophage SPP1. Viruses, 2018, 10, 705.	1.5	13
44	Crystal structure of Bacillus subtilis SPP1 phage gp22 shares fold similarity with a domain of lactococcal phage p2 RBP. Protein Science, 2010, 19, 1439-1443.	3.1	12
45	A touch of glue to complete bacteriophage assembly: the tailâ€toâ€head joining protein (<scp>THJP</scp>) family. Molecular Microbiology, 2014, 91, 1164-1178.	1.2	12
46	Crystal structure of Bacillus subtilis SPP1 phage gp23.1, a putative chaperone. Protein Science, 2010, 19, 1812-1816.	3.1	11
47	The Collagen-like Protein gp12 Is a Temperature-dependent Reversible Binder of SPP1 Viral Capsids. Journal of Biological Chemistry, 2014, 289, 27169-27181.	1.6	11
48	A non-invasive method for studying viral DNA delivery to bacteria reveals key requirements for phage SPP1 DNA entry in Bacillus subtilis cells. Virology, 2016, 495, 79-91.	1.1	10
49	Temporal compartmentalization of viral infection in bacterial cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
50	Biogenesis of a Bacteriophage Long Non-Contractile Tail. Journal of Molecular Biology, 2021, 433, 167112.	2.0	6
51	Bacteriophage SPP1 DNA Packaging. , 2005, , 89-101.		5