Vassilis Koronakis

List of Publications by Year
in descending order

98	8,110	36303 51	49909 87
papers	citations	h-index	g-index

121	121	121	5811
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal structure of the bacterial membrane protein TolC central to multidrug efflux and protein export. Nature, 2000, 405, 914-919.	27.8	1,013
2	Activation of Escherichia coli prohaemolysin to the mature toxin by acyl carrier protein-dependent fatty acylation. Nature, 1991, 351, 759-761.	27.8	346
3	Structure and Function of TolC: The Bacterial Exit Duct for Proteins and Drugs. Annual Review of Biochemistry, 2004, 73, 467-489.	11.1	318
4	Salmonella takes control: effector-driven manipulation of the host. Current Opinion in Microbiology, 2009, 12, 117-124.	5.1	285
5	The assembled structure of a complete tripartite bacterial multidrug efflux pump. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7173-7178.	7.1	276
6	Structure of the periplasmic component of a bacterial drug efflux pump. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9994-9999.	7.1	243
7	RfaH and the ops element, components of a novel system controlling bacterial transcription elongation. Molecular Microbiology, 1997, 26, 845-851.	2.5	195
8	Interactions underlying assembly of the Escherichia coli AcrAB-TolC multidrug efflux system. Molecular Microbiology, 2004, 53, 697-706.	2.5	184
9	Acylation ofEscherichia coliHemolysin: A Unique Protein Lipidation Mechanism Underlying Toxin Function. Microbiology and Molecular Biology Reviews, 1998, 62, 309-333.	6.6	172
10	Structural and functional diversity calls for a new classification of ABC transporters. FEBS Letters, 2020, 594, 3767-3775.	2.8	169
11	Salmonella InvG forms a ringâ€like multimer that requires the InvH lipoprotein for outer membrane localization. Molecular Microbiology, 1998, 30, 47-56.	2.5	151
12	Transition to the open state of the TolC periplasmic tunnel entrance. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11103-11108.	7.1	145
13	Cholesterol binding by the bacterial type III translocon is essential for virulence effector delivery into mammalian cells. Molecular Microbiology, 2005, 56, 590-603.	2.5	139
14	Three's company: component structures bring a closer view of tripartite drug efflux pumps. Current Opinion in Structural Biology, 2004, 14, 741-747.	5.7	132
15	Salmonella SPI1 Effector SipA Persists after Entry and Cooperates with a SPI2 Effector to Regulate Phagosome Maturation and Intracellular Replication. Cell Host and Microbe, 2007, 1, 63-75.	11.0	130
16	A periplasmic coiled-coil interface underlying TolC recruitment and the assembly of bacterial drug efflux pumps. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4612-4617.	7.1	125
17	Antibiotic Resistance Mediated by the MacB ABC Transporter Family: A Structural and Functional Perspective. Frontiers in Microbiology, 2018, 9, 950.	3.5	121
18	WAVE regulatory complex activation by cooperating GTPases Arf and Rac1. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14449-14454.	7.1	119

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19	Structure of TolC, the outer membrane component of the bacterial type I efflux system, derived from two-dimensional crystals. Molecular Microbiology, 1997, 23, 617-626.	2.5	117
20	Substrate-triggered recruitment of the TolC channel-tunnel during type I export of hemolysin by Escherichia coli. Journal of Molecular Biology, 2001, 313, 501-510.	4.2	116
21	Control of Actin Turnover by a Salmonella Invasion Protein. Molecular Cell, 2004, 13, 497-510.	9.7	116
22	Structure and mechanotransmission mechanism of the MacB ABC transporter superfamily. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12572-12577.	7.1	114
23	Phosphorylation of the enteropathogenic E. coli receptor by the Src-family kinase c-Fyn triggers actin pedestal formation. Nature Cell Biology, 2004, 6, 618-625.	10.3	113
24	ATPase activity and ATP/ADP-induced conformational change in the soluble domain of the bacterial protein translocator HlyB. Molecular Microbiology, 1993, 8, 1163-1175.	2.5	100
25	Structure and Operation of Bacterial Tripartite Pumps. Annual Review of Microbiology, 2013, 67, 221-242.	7.3	100
26	Escherichia coli HlyT protein, a transcriptional activator of haemolysin synthesis and secretion, is encoded by the rfaH (sfrB) locus required for expression of sex factor and lipopolysaccharide genes. Molecular Microbiology, 1992, 6, 1003-1012.	2.5	93
27	TolC - the bacterial exit duct for proteins and drugs. FEBS Letters, 2003, 555, 66-71.	2.8	92
28	Exploiting pathogenic Escherichia coli to model transmembrane receptor signalling. Nature Reviews Microbiology, 2006, 4, 358-370.	28.6	89
29	Direct modulation of the host cell cytoskeleton by Salmonella actin-binding proteins. Trends in Cell Biology, 2002, 12, 15-20.	7.9	88
30	The Salmonella pathogenicity island 1 secretion system directs cellular cholesterol redistribution during mammalian cell entry and intracellular trafficking. Cellular Microbiology, 2002, 4, 153-165.	2.1	85
31	Arf6 coordinates actin assembly through the WAVE complex, a mechanism usurped by Salmonella to invade host cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16880-16885.	7.1	85
32	Protein exporter function and in vitro ATPase activity are correlated in ABC-domain mutants of HlyB. Molecular Microbiology, 1995, 16, 87-96.	2.5	84
33	Salmonella Virulence Effector SopE and Host GEF ARNO Cooperate to Recruit and Activate WAVE to Trigger Bacterial Invasion. Cell Host and Microbe, 2012, 11, 129-139.	11.0	84
34	An aspartate ring at the TolC tunnel entrance determines ion selectivity and presents a target for blocking by large cations. Molecular Microbiology, 2002, 44, 1131-1139.	2.5	83
35	Chunnel vision. EMBO Reports, 2000, 1, 313-318.	4.5	82
36	Membrane fusion activity of purified SipB, aSalmonellasurface protein essential for mammalian cell invasion. Molecular Microbiology, 2000, 37, 727-739.	2.5	76

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37	Swiss Army Pathogen: The Salmonella Entry Toolkit. Frontiers in Cellular and Infection Microbiology, 2017, 7, 348.	3.9	73
38	Structures of sequential open states in a symmetrical opening transition of the TolC exit duct. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2112-2117.	7.1	72
39	Self-association of EPEC intimin mediated by the Î²-barrel-containing anchor domain: a role in clustering of the Tir receptor. Molecular Microbiology, 2003, 51, 73-87.	2.5	69
40	The purified Shigella IpaB and Salmonella SipB translocators share biochemical properties and membrane topology. Molecular Microbiology, 2003, 49, 425-439.	2.5	69
41	Suppression of transcription polarity in the Escherichia coli haemolysin operon by a short upstream element shared by polysaccharide and DNA transfer determinants. Molecular Microbiology, 1996, 19, 705-713.	2.5	68
42	The Salmonella Effector SptP Dephosphorylates Host AAA+ ATPase VCP to Promote Development of its Intracellular Replicative Niche. Cell Host and Microbe, 2009, 5, 225-233.	11.0	67
43	Expression of theE.colihemolysin secretion genehlyB involves transcript anti-termination within thehlyoperon. Nucleic Acids Research, 1988, 16, 4789-4800.	14.5	65
44	Flexibility in a Drug Transport Accessory Protein: Molecular Dynamics Simulations of MexA. Biophysical Journal, 2006, 91, 558-564.	0.5	65
45	Increased distal gene transcription by the elongation factor RfaH, a specialized homologue of NusG. Molecular Microbiology, 1996, 22, 729-737.	2.5	63
46	Deciphering Interplay between Salmonella Invasion Effectors. PLoS Pathogens, 2008, 4, e1000037.	4.7	61
47	Insights into bacterial lipoprotein trafficking from a structure of LolA bound to the LolC periplasmic domain. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7389-E7397.	7.1	58
48	Locking TolC Entrance Helices to Prevent Protein Translocation by the Bacterial Type I Export Apparatus. Journal of Molecular Biology, 2003, 327, 309-315.	4.2	57
49	Enteropathogenic Escherichia coli Recruits the Cellular Inositol Phosphatase SHIP2 to Regulate Actin-Pedestal Formation. Cell Host and Microbe, 2010, 7, 13-24.	11.0	57
50	Protein export and drug efflux through bacterial channel-tunnels. Current Opinion in Cell Biology, 2001, 13, 412-416.	5.4	56
51	Directed evolution of a bacterial efflux pump: Adaptation of theE. coliTolC exit duct to thePseudomonasMexAB translocase. FEBS Letters, 2006, 580, 5339-5343.	2.8	56
52	Interaction ofEscherichia colihemolysin with biological membranes. FEBS Journal, 2001, 268, 800-808.	0.2	54
53	Structure of the Ligand-blocked Periplasmic Entrance of the Bacterial Multidrug Efflux Protein TolC. Journal of Molecular Biology, 2004, 342, 697-702.	4.2	53
54	Comparison of the haemolysin secretion protein HlyB from Proteus vulgaris and Escherichia coli; site-directed mutagenesis causing impairment of export function. Molecular Genetics and Genomics, 1988, 213, 551-555.	2.4	52

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55	The Arf GTPase-Activating Protein Family Is Exploited by Salmonella enterica Serovar Typhimurium To Invade Nonphagocytic Host Cells. MBio, 2015, 6, .	4.1	52
56	Membrane Interaction of Escherichia coli Hemolysin: Flotation and Insertion-Dependent Labeling by Phospholipid Vesicles. Journal of Bacteriology, 2001, 183, 5364-5370.	2.2	50
57	Repetitive N-WASPâ€“Binding Elements of the Enterohemorrhagic Escherichia coli Effector EspFU Synergistically Activate Actin Assembly. PLoS Pathogens, 2008, 4, e1000191.	4.7	47
58	Bacterial signal peptide-independent protein export: HlyB-directed secretion of hemolysin. Seminars in Cell Biology, 1993, 4, 7-15.	3.4	46
59	Identification of the promotors directing in vivo expression of hemolysin genes in Proteus vulgaris and Escherichia coli. Molecular Genetics and Genomics, 1988, 213, 99-104.	2.4	45
60	E.coli hemolysin interactions with prokaryotic and eukaryotic cell membranes. BioEssays, 1992, 14, 519-525.	2.5	44
61	Topology of the Salmonella invasion protein SipB in a model bilayer. Molecular Microbiology, 2002, 44, 1309-1321.	2.5	43
62	Structures of Gate Loop Variants of the AcrB Drug Efflux Pump Bound by Erythromycin Substrate. PLoS ONE, 2016, 11, e0159154.	2.5	42
63	The target cell plasma membrane is a critical interface for Salmonella cell entry effector-host interplay. Molecular Microbiology, 2004, 54, 887-904.	2.5	40
64	Structure of the periplasmic adaptor protein from a major facilitator superfamily (MFS) multidrug efflux pump. FEBS Letters, 2014, 588, 3147-3153.	2.8	40
65	Independent interaction of the acyltransferase HlyC with two maturation domains of the Escherichia coli toxin HlyA. Molecular Microbiology, 1996, 20, 813-822.	2.5	33
66	Channel-tunnels. Current Opinion in Structural Biology, 2001, 11, 403-407.	5.7	33
67	Structure of a bacterial toxin-activating acyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3058-66.	7.1	33
68	Binding of extracellular matrix laminin toEscherichia coliexpressing theSalmonellaouter membrane proteins Rck and PagC. FEMS Microbiology Letters, 1999, 176, 495-501.	1.8	32
69	Inhibition of WAVE Regulatory Complex Activation by a Bacterial Virulence Effector Counteracts Pathogen Phagocytosis. Cell Reports, 2016, 17, 697-707.	6.4	32
70	Arf GTPase interplay with Rho GTPases in regulation of the actin cytoskeleton. Small GTPases, 2019, 10, 411-418.	1.6	32
71	The Bacterial Cytoskeleton Modulates Motility, Type 3 Secretion, and Colonization in Salmonella. PLoS Pathogens, 2012, 8, e1002500.	4.7	28
72	Processing of viable Salmonella typhimurium for presentation of a CD4 T cell epitope from the Salmonella invasion protein C (SipC). European Journal of Immunology, 2002, 32, 2664-2671.	2.9	26

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73	Synthesis, maturation and export of the E. coli hemolysin. Medical Microbiology and Immunology, 1996, 185, 65-71.	4.8	25
74	LuxS-Based Quorum Sensing Does Not Affect the Ability ofSalmonella entericaSerovar Typhimurium To Express the SPI-1 Type 3 Secretion System, Induce Membrane Ruffles, or Invade Epithelial Cells. Journal of Bacteriology, 2009, 191, 7253-7259.	2.2	25
75	Activation ofEscherichia coliprohemolysin to the membrane-targetted toxin by HlyC-directed ACP-dependent fatty acylation. FEMS Microbiology Letters, 1992, 105, 37-43.	1.8	24
76	The Drosophila Arf1 homologue Arf79F is essential for lamellipodium formation. Journal of Cell Science, 2012, 125, 5630-5635.	2.0	24
77	MYO6 is targeted by Salmonella virulence effectors to trigger PI3-kinase signaling and pathogen invasion into host cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3915-3920.	7.1	24
78	Structure of an atypical periplasmic adaptor from a multidrug efflux pump of the spirochete Borrelia burgdorferi. FEBS Letters, 2013, 587, 2984-2988.	2.8	21
79	Clustering transfers the translocatedEscherichia colireceptor into lipid rafts to stimulate reversible activation of c-Fyn. Cellular Microbiology, 2009, 11, 433-441.	2.1	20
80	An ordered reaction mechanism for bacterial toxin acylation by the specialized acyltransferase HlyC: formation of a ternary complex with acylACP and protoxin substrates. Molecular Microbiology, 1999, 34, 887-901.	2.5	19
81	A Salmonella SipB-derived polypeptide blocks the â€˜triggerâ€™ mechanism of bacterial entry into eukaryotic cells. Molecular Microbiology, 2002, 45, 1715-1727.	2.5	17
82	The sequences of the traJ gene and the 5â€² end of the traY gene of the resistance plasmid R1. Molecular Genetics and Genomics, 1986, 203, 137-142.	2.4	16
83	Structure of CYRI-B (FAM49B), a key regulator of cellular actin assembly. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1015-1024.	2.3	12
84	Pathogenic Escherichia coli Hijacks GTPase-Activated p21-Activated Kinase for Actin Pedestal Formation. MBio, 2019, 10, .	4.1	11
85	Arf6 Can Trigger Wave Regulatory Complex-Dependent Actin Assembly Independent of Arno. International Journal of Molecular Sciences, 2020, 21, 2457.	4.1	10
86	Reply: Complex kinase requirements for EPEC pedestal formation. Nature Cell Biology, 2004, 6, 795-796.	10.3	9
87	WAVE Regulatory Complex Activation. Methods in Enzymology, 2014, 540, 363-379.	1.0	9
88	The HlyB/HlyD-dependent secretion of toxins by Gran-negative bacteria. FEMS Microbiology Letters, 1992, 105, 44-53.	1.8	7
89	Pathogens reWritE Rho's Rules. Cell, 2006, 124, 15-17.	28.9	7
90	A kinase-independent function of PAK is crucial for pathogen-mediated actin remodelling. PLoS Pathogens, 2021, 17, e1009902.	4.7	7

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91	EPEC Recruits a Cdc42-Specific GEF, Frabin, To Facilitate PAK Activation and Host Cell Colonization. MBio, 2020, 11, .	4.1	4
92	Hemolysin. , 2002, , 361-378.		3
93	Mimicry Is the Sincerest Form of Flattery?. Cell Host and Microbe, 2008, 4, 411-412.	11.0	3
94	Bacterial Metal Resistance: Coping with Copper without Cooperativity?. MBio, 2021, 12, e0065321.	4.1	3
95	Chapter 20 Secretion of hemolysin and other proteins out of the Gram-negative bacterial cell. New Comprehensive Biochemistry, 1994, 27, 425-446.	0.1	2
96	The Type I Export Mechanism. , 0, , 71-79.		2
97	ATPase activity and ATP/ADP-induced conformational change in the bacterial toxin exporter hemolysin B. Biochemical Society Transactions, 1993, 21, 347S-347S.	3.4	1
98	Binding of extracellular matrix laminin to Escherichia coli expressing the Salmonella outer membrane proteins Rck and PagC. FEMS Microbiology Letters, 1999, 176, 495-501.	1.8	1