Klaus Aktories

List of Publications by Year
in descending order

288	18,855	9264 74	17592 121
papers	citations	h-index	g-index

303	303	303	10135
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glnâ€‰63 of Rho is deamidated by Escherichia coli cytotoxic necrotizing factor-1. Nature, 1997, 387, 725-729.	27.8	534
2	The Enterotoxin from Clostridium difficile (ToxA) Monoglucosylates the Rho Proteins. Journal of Biological Chemistry, 1995, 270, 13932-13936.	3.4	450
3	Rac and Cdc42 play distinct roles in regulating PI(3,4,5)P3 and polarity during neutrophil chemotaxis. Journal of Cell Biology, 2003, 160, 375-385.	5.2	411
4	Ephrin-A5 Induces Collapse of Growth Cones by Activating Rho and Rho Kinase. Journal of Cell Biology, 2000, 149, 263-270.	5.2	368
5	Clostridium difficilebinary toxin CDT. Gut Microbes, 2014, 5, 15-27.	9.8	360
6	Binary Bacterial Toxins: Biochemistry, Biology, and Applications of Common Clostridium and Bacillus Proteins. Microbiology and Molecular Biology Reviews, 2004, 68, 373-402.	6.6	353
7	Bacterial protein toxins that modify host regulatory GTPases. Nature Reviews Microbiology, 2011, 9, 487-498.	28.6	287
8	GAP activity of the Yersinia YopE cytotoxin specifically targets the Rho pathway: a mechanism for disruption of actin microfilament structure. Molecular Microbiology, 2002, 36, 737-748.	2.5	284
9	Clostridium difficile Toxin CDT Induces Formation of Microtubule-Based Protrusions and Increases Adherence of Bacteria. PLoS Pathogens, 2009, 5, e1000626.	4.7	283
10	The N-terminal Domain of Pseudomonas aeruginosaExoenzyme S Is a GTPase-activating Protein for Rho GTPases. Journal of Biological Chemistry, 1999, 274, 36369-36372.	3.4	265
11	The rho gene product expressed in E. Coli is a substrate of botulinum ADP-ribosyltransferase C3. Biochemical and Biophysical Research Communications, 1989, 158, 209-213.	2.1	260
12	Clostridium difficile Toxin Biology. Annual Review of Microbiology, 2017, 71, 281-307.	7.3	253
13	Clostridium botulinumtype C produces a novel ADP-ribosyltransferase distinct from botulinum C2 toxin. FEBS Letters, 1987, 212, 109-113.	2.8	243
14	Structure and mode of action of clostridial glucosylating toxins: the ABCD model. Trends in Microbiology, 2008, 16, 222-229.	7.7	240
15	Bacterial cytotoxins: targeting eukaryotic switches. Nature Reviews Microbiology, 2005, 3, 397-410.	28.6	214
16	A Common Motif of Eukaryotic Glycosyltransferases Is Essential for the Enzyme Activity of Large Clostridial Cytotoxins. Journal of Biological Chemistry, 1998, 273, 19566-19572.	3.4	213
17	Photorhabdus luminescens Toxins ADP-Ribosylate Actin and RhoA to Force Actin Clustering. Science, 2010, 327, 1139-1142.	12.6	211
18	Glucosylation and ADP Ribosylation of Rho Proteins:Â Effects on Nucleotide Binding, GTPase Activity, and Effector Couplingâ€. Biochemistry, 1998, 37, 5296-5304.	2.5	201

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19	Novel bacterial ADP-ribosylating toxins: structure and function. Nature Reviews Microbiology, 2014, 12, 599-611.	28.6	186
20	Clostridium perfringensiota toxin ADP-ribosylates skeletal muscle actin in Arg-177. FEBS Letters, 1987, 225, 48-52.	2.8	181
21	Lipolysis-stimulated lipoprotein receptor (LSR) is the host receptor for the binary toxin Clostridium difficile transferase (CDT). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16422-16427.	7.1	175
22	Auto-catalytic Cleavage of Clostridium difficile Toxins A and B Depends on Cysteine Protease Activity. Journal of Biological Chemistry, 2007, 282, 25314-25321.	3.4	172
23	Rho proteins: Targets for bacterial toxins. Trends in Microbiology, 1997, 5, 282-288.	7.7	168
24	Inactivation of Ras by Clostridium sordellii Lethal Toxin-catalyzed Glucosylation. Journal of Biological Chemistry, 1996, 271, 10149-10153.	3.4	167
25	Rac1 and Cdc42 but Not RhoA or Rho Kinase Activities Are Required for Neurite Outgrowth Induced by the Netrin-1 Receptor DCC (Deleted in Colorectal Cancer) in N1E-115 Neuroblastoma Cells. Journal of Biological Chemistry, 2002, 277, 15207-15214.	3.4	167
26	Pseudomonas aeruginosa ExoT Is a Rho GTPase-Activating Protein. Infection and Immunity, 2000, 68, 6066-6068.	2.2	166
27	Cellular Uptake of Clostridium botulinum C2 Toxin Requires Oligomerization and Acidification. Journal of Biological Chemistry, 2000, 275, 18704-18711.	3.4	161
28	Rho-glucosylating Clostridium difficile toxins A and B: new insights into structure and function. Glycobiology, 2007, 17, 15R-22R.	2.5	159
29	Botulinum ADP-ribosyltransferase C3. Purification of the enzyme and characterization of the ADP-ribosylation reaction in platelet membranes. FEBS Journal, 1988, 172, 445-450.	0.2	156
30	Localization of the Glucosyltransferase Activity of Clostridium difficile Toxin B to the N-terminal Part of the Holotoxin. Journal of Biological Chemistry, 1997, 272, 11074-11078.	3.4	150
31	The Rho-deamidating Cytotoxic Necrotizing Factor 1 fromEscherichia coli Possesses Transglutaminase Activity. Journal of Biological Chemistry, 1998, 273, 13669-13674.	3.4	150
32	Bacterial Toxins That Modify The Actin Cytoskeleton. Annual Review of Cell and Developmental Biology, 2002, 18, 315-344.	9.4	149
33	Mechanism of Tc toxin action revealed in molecular detail. Nature, 2014, 508, 61-65.	27.8	149
34	An Inhibitory Role of Rho in the Vasopressin-mediated Translocation of Aquaporin-2 into Cell Membranes of Renal Principal Cells. Journal of Biological Chemistry, 2001, 276, 20451-20457.	3.4	147
35	Structural Basis for the Function of Clostridium difficile Toxin B. Journal of Molecular Biology, 2005, 351, 973-981.	4.2	144
36	The amino-terminal domain of Pseudomonas aeruginosa ExoS disrupts actin filaments via small-molecular-weight GTP-binding proteins. Molecular Microbiology, 1999, 32, 393-401.	2.5	142

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37	Low pH-induced Formation of Ion Channels by Clostridium difficile Toxin B in Target Cells. Journal of Biological Chemistry, 2001, 276, 10670-10676.	3.4	141
38	The binary toxin CDT enhances Clostridium difficile virulence by suppressing protective colonic eosinophilia. Nature Microbiology, 2016, 1, 16108.	13.3	140
39	Legionella pneumophila glucosyltransferase inhibits host elongation factor 1A. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16953-16958.	7.1	139
40	Rho-modifying C3-like ADP-ribosyltransferases. , 2004, 152, 1-22.		138
41	Actin as target for modification by bacterial protein toxins. FEBS Journal, 2011, 278, 4526-4543.	4.7	138
42	Clostridial Glucosylating Toxins Enter Cells via Clathrin-Mediated Endocytosis. PLoS ONE, 2010, 5, e10673.	2.5	138
43	Lgt: a Family of Cytotoxic Glucosyltransferases Produced by Legionella pneumophila. Journal of Bacteriology, 2008, 190, 3026-3035.	2.2	130
44	A syringe-like injection mechanism in Photorhabdus luminescens toxins. Nature, 2013, 495, 520-523.	27.8	130
45	Clostridium novyi Î±-Toxin-catalyzed Incorporation of GlcNAc into Rho Subfamily Proteins. Journal of Biological Chemistry, 1996, 271, 25173-25177.	3.4	128
46	Role of Rho and Rho kinase in the activation of volume-regulated anion channels in bovine endothelial cells. Journal of Physiology, 1999, 516, 67-74.	2.9	128
47	ADP-ribosylation of skeletal muscle and non-muscle actin by Clostridium perfringens iota toxin. FEBS Journal, 1988, 171, 225-229.	0.2	126
48	Characterization of the Enzymatic Component of the ADP-Ribosyltransferase Toxin CDTa from Clostridium difficile. Infection and Immunity, 2001, 69, 6004-6011.	2.2	124
49	The Host Cell Chaperone Hsp90 Is Essential for Translocation of the Binary Clostridium botulinum C2 Toxin into the Cytosol. Journal of Biological Chemistry, 2003, 278, 32266-32274.	3.4	123
50	Cellular Uptake of Clostridium difficile Toxin B. Journal of Biological Chemistry, 2003, 278, 44535-44541.	3.4	121
51	Structure and Action of the Binary C2 Toxin from Clostridium botulinum. Journal of Molecular Biology, 2006, 364, 705-715.	4.2	116
52	Human Î±-Defensins Inhibit Clostridium difficile Toxin B. Gastroenterology, 2008, 134, 2049-2058.	1.3	115
53	Binding of Clostridium botulinum C2 Toxin to Asparagine-linked Complex and Hybrid Carbohydrates. Journal of Biological Chemistry, 2000, 275, 2328-2334.	3.4	111
54	Pasteurella multocida toxin activation of heterotrimeric G proteins by deamidation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7179-7184.	7.1	105

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55	Inhibition of FcÎµRI-mediated Activation of Rat Basophilic Leukemia Cells by Clostridium difficile Toxin B (Monoglucosyltransferase). Journal of Biological Chemistry, 1996, 271, 7324-7329.	3.4	103
56	C3 exoenzymes, novel insights into structure and action of Rho-ADP-ribosylating toxins. Naunyn-Schmiedeberg's Archives of Pharmacology, 2007, 374, 347-360.	3.0	100
57	Hijacking of Rho GTPases during bacterial infection. Experimental Cell Research, 2013, 319, 2329-2336.	2.6	98
58	Entrapment of Rho ADP-ribosylated by Clostridium botulinum C3 Exoenzyme in the Rho-Guanine Nucleotide Dissociation Inhibitor-1 Complex. Journal of Biological Chemistry, 2003, 278, 28523-28527.	3.4	97
59	Structural determinants for membrane insertion, pore formation and translocation ofClostridium difficiletoxin B. Molecular Microbiology, 2011, 79, 1643-1654.	2.5	96
60	Characterization of the Catalytic Site of the ADP-Ribosyltransferase Clostridium botulinum C2 Toxin by Site-directed Mutagenesis. Journal of Biological Chemistry, 1998, 273, 29506-29511.	3.4	93
61	Bacterial protein toxins targeting Rho GTPases. FEMS Microbiology Letters, 2000, 188, 1-6.	1.8	92
62	Large clostridial cytotoxins: cellular biology of Rho/Ras-glucosylating toxins. Biochimica Et Biophysica Acta - General Subjects, 2004, 1673, 66-74.	2.4	92
63	Actin Involvement in Exocytosis from PC12 Cells: Studies on the Influence of Botulinum C2 Toxin on Stimulated Noradrenaline Release. Journal of Neurochemistry, 1989, 52, 370-376.	3.9	90
64	Membrane Translocation of Binary Actin-ADP-Ribosylating Toxins from Clostridium difficile and Clostridium perfringens Is Facilitated by Cyclophilin A and Hsp90. Infection and Immunity, 2011, 79, 3913-3921.	2.2	90
65	Role of actin filaments in endothelial cell-cell adhesion and membrane stability under fluid shear stress. Pflugers Archiv European Journal of Physiology, 2001, 442, 675-687.	2.8	89
66	Monoglucosylation of RhoA at Threonine 37 Blocks Cytosol-Membrane Cycling. Journal of Biological Chemistry, 1999, 274, 29050-29056.	3.4	88
67	Cellular Uptake of the Clostridium perfringens Binary Iota-Toxin. Infection and Immunity, 2001, 69, 2980-2987.	2.2	86
68	The Yersinia pseudotuberculosis Cytotoxic Necrotizing Factor (CNFY) Selectively Activates RhoA. Journal of Biological Chemistry, 2004, 279, 16026-16032.	3.4	86
69	Evidence for Differential Roles of the Rho Subfamily of GTP-Binding Proteins in Glucose- and Calcium-Induced Insulin Secretion from Pancreatic Î² Cells. Biochemical Pharmacology, 1997, 54, 1097-1108.	4.4	85
70	A Novel C3-like ADP-ribosyltransferase fromStaphylococcus aureus Modifying RhoE and Rnd3. Journal of Biological Chemistry, 2001, 276, 9537-9542.	3.4	83
71	Proteasomal Degradation of Cytotoxic Necrotizing Factor 1-Activated Rac. Infection and Immunity, 2002, 70, 4053-4058.	2.2	83
72	LRP1 is a receptor for Clostridium perfringens TpeL toxin indicating a two-receptor model of clostridial glycosylating toxins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6431-6436.	7.1	82

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73	Clostridium difficile Glucosyltransferase Toxin B-essential Amino Acids for Substrate Binding. Journal of Biological Chemistry, 2007, 282, 35222-35231.	3.4	80
74	Activation of Rho GTPases byEscherichia coliCytotoxic Necrotizing Factor 1 Increases Intestinal Permeability in Caco-2 Cells. Infection and Immunity, 1998, 66, 5125-5131.	2.2	79
75	Clostridium difficile toxin CDT hijacks microtubule organization and reroutes vesicle traffic to increase pathogen adherence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2313-2318.	7.1	78
76	Cholesterol-dependent Pore Formation of Clostridium difficile Toxin A. Journal of Biological Chemistry, 2006, 281, 10808-10815.	3.4	77
77	An Essential Role for Rac/Cdc42 GTPases in Cerebellar Granule Neuron Survival. Journal of Biological Chemistry, 2001, 276, 39123-39131.	3.4	75
78	Interaction ofClostridium botulinumC2â€toxin with lipid bilayer membranes and vero cells: inhibition of channel function by chloroquine and related compoundsin vitroand intoxificationin vivo. FASEB Journal, 2001, 15, 1658-1660.	0.5	72
79	The Binary Clostridium botulinum C2 Toxin as a Protein Delivery System. Journal of Biological Chemistry, 2002, 277, 5074-5081.	3.4	72
80	Cell-free synthesis and characterization of a novel cytotoxic pierisin-like protein from the cabbage butterfly Pieris rapae. Toxicon, 2011, 57, 199-207.	1.6	72
81	Insecticidal Toxin Complex Proteins from Xenorhabdus nematophilus. Journal of Biological Chemistry, 2011, 286, 22742-22749.	3.4	71
82	Agents That Inhibit Rho, Rac, and Cdc42 Do Not Block Formation of Actin Pedestals in HeLa Cells Infected with Enteropathogenic Escherichia coli. Infection and Immunity, 1998, 66, 1755-1758.	2.2	71
83	ADP-ribosylation of platelet actin by botulinum C2 toxin. FEBS Journal, 1986, 161, 155-162.	0.2	70
84	Actin Filaments Facilitate Insulin Activation of the Src and Collagen Homologous/Mitogen-activated Protein Kinase Pathway Leading to DNA Synthesis and c-fos Expression. Journal of Biological Chemistry, 1998, 273, 28322-28331.	3.4	70
85	Recognition of RhoA by Clostridium botulinum C3 Exoenzyme. Journal of Biological Chemistry, 2000, 275, 16478-16483.	3.4	70
86	ADP-ribosylation of actin isoforms by Clostridium botulinum C2 toxin and Clostridium perfringens iota toxin. FEBS Journal, 1990, 194, 237-241.	0.2	69
87	The Rho-ADP-ribosylating C3 exoenzyme from Clostridium botulinum and related C3-like transferases. Toxicon, 2001, 39, 1647-1660.	1.6	69
88	The Host Cell Chaperone Hsp90 Is Necessary for Cytotoxic Action of the Binary Iota-Like Toxins. Infection and Immunity, 2004, 72, 3066-3068.	2.2	69
89	Pasteurella multocida Toxin-induced Activation of RhoA Is Mediated via Two Families of Gî± Proteins, Gî±q and Gî±12/13. Journal of Biological Chemistry, 2005, 280, 36701-36707.	3.4	68
90	Difference in Protein Substrate Specificity between Hemorrhagic Toxin and Lethal Toxin fromClostridium sordellii. Biochemical and Biophysical Research Communications, 1996, 229, 370-374.	2.1	66

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91	Domain organization of Legionella effector SetA. Cellular Microbiology, 2012, 14, 852-868.	2.1	66
92	The C Terminus of Component C2II of Clostridium botulinum C2 Toxin Is Essential for Receptor Binding. Infection and Immunity, 2000, 68, 4566-4573.	2.2	65
93	Identification of the C-terminal Part of BordetellaDermonecrotic Toxin as a Transglutaminase for Rho GTPases. Journal of Biological Chemistry, 1999, 274, 31875-31881.	3.4	64
94	Microbial toxins and the glycosylation of Rho family GTPases. Current Opinion in Structural Biology, 2000, 10, 528-535.	5.7	64
95	Clostridium botulinum C2 Toxin. Journal of Biological Chemistry, 2003, 278, 37360-37367.	3.4	63
96	Rho-ADP-ribosylating exoenzyme from Bacillus cereus. Purification, characterization, and identification of the NAD-binding site. Biochemistry, 1995, 34, 334-340.	2.5	62
97	Identification of the Region of Rho Involved in Substrate Recognition by Escherichia coli Cytotoxic Necrotizing Factor 1 (CNF1). Journal of Biological Chemistry, 1999, 274, 28999-29004.	3.4	62
98	Phenylalanine-427 of anthrax protective antigen functions in both pore formation and protein translocation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4346-4351.	7.1	62
99	Role of CypA and Hsp90 in membrane translocation mediated by anthrax protective antigen. Cellular Microbiology, 2011, 13, 359-373.	2.1	62
100	Involvement of a Conserved Tryptophan Residue in the UDP-Glucose Binding of Large Clostridial Cytotoxin Glycosyltransferases. Journal of Biological Chemistry, 2000, 275, 13228-13234.	3.4	61
101	RhoA exerts a permissive effect on volume-regulated anion channels in vascular endothelial cells. American Journal of Physiology - Cell Physiology, 2002, 283, C115-C125.	4.6	61
102	Conformational Changes and Reaction of Clostridial Glycosylating Toxins. Journal of Molecular Biology, 2008, 377, 1346-1356.	4.2	61
103	FK506â€binding protein 51 interacts withClostridium botulinumC2 toxin and FK506 inhibits membrane translocation of the toxin in mammalian cells. Cellular Microbiology, 2012, 14, 1193-1205.	2.1	61
104	A bacterial toxin catalyzing tyrosine glycosylation of Rho and deamidation of Gq and Gi proteins. Nature Structural and Molecular Biology, 2013, 20, 1273-1280.	8.2	61
105	Binary Clostridium difficile toxin (CDT) - A virulence factor disturbing the cytoskeleton. Anaerobe, 2018, 53, 21-29.	2.1	60
106	Cellular Uptake ofClostridium botulinumC2 Toxin:Â Membrane Translocation of a Fusion Toxin Requires Unfolding of Its Dihydrofolate Reductase Domainâ€. Biochemistry, 2003, 42, 15284-15291.	2.5	59
107	Biological Activity of a C-Terminal Fragment ofPasteurella multocida Toxin. Infection and Immunity, 2001, 69, 3628-3634.	2.2	58
108	The complete receptor-binding domain of Clostridium difficile toxin A is required for endocytosis. Biochemical and Biophysical Research Communications, 2003, 300, 706-711.	2.1	57

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109	ADP-ribosylation of actin causes increase in the rate of ATP exchange and inhibition of ATP hydrolysis. FEBS Journal, 1989, 179, 229-232.	0.2	56
110	Nonmuscle actin ADP-ribosylated by botulinum C2 toxin caps actin filaments. FEBS Letters, 1989, 246, 181-184.	2.8	56
111	Regulation of Somatodendritic GABA_A Receptor Channels in Rat Hippocampal Neurons: Evidence for a Role of the Small GTPase Rac1. Journal of Neuroscience, 2000, 20, 6743-6751.	3.6	56
112	Autocatalytic Processing of Clostridium difficile Toxin B. Journal of Biological Chemistry, 2009, 284, 3389-3395.	3.4	56
113	Clostridial Rho-Inhibiting Protein Toxins. , 2005, 291, 113-145.		56
114	Auto-ADP-ribosylation of Pseudomonas aeruginosa ExoS. Journal of Biological Chemistry, 2002, 277, 12082-12088.	3.4	55
115	Salmonella enterica SpvB ADP-Ribosylates Actin at Position Arginine-177Characterization of the Catalytic Domain within the SpvB Protein and a Comparison to Binary Clostridial Actin-ADP-Ribosylating Toxins. Biochemistry, 2006, 45, 1271-1277.	2.5	55
116	Selection of Nanobodies that Block the Enzymatic and Cytotoxic Activities of the Binary Clostridium Difficile Toxin CDT. Scientific Reports, 2015, 5, 7850.	3.3	55
117	Neosynthesis and Activation of Rho by Escherichia coli Cytotoxic Necrotizing Factor (CNF1) Reverse Cytopathic Effects of ADP-ribosylated Rho. Journal of Biological Chemistry, 1999, 274, 27407-27414.	3.4	54
118	The Cytotoxic Necrotizing Factors from Yersinia pseudotuberculosis and from Escherichia coli Bind to Different Cellular Receptors but Take the Same Route to the Cytosol. Infection and Immunity, 2007, 75, 3344-3353.	2.2	54
119	Molecular Characteristics of Clostridium perfringens TpeL Toxin and Consequences of Mono-O-GlcNAcylation of Ras in Living Cells. Journal of Biological Chemistry, 2012, 287, 24929-24940.	3.4	54
120	Chimeric Clostridial Cytotoxins: Identification of the N-Terminal Region Involved in Protein Substrate Recognition. Infection and Immunity, 1998, 66, 1076-1081.	2.2	54
121	Channel Formation by the Binding Component ofClostridium botulinumC2 Toxin:Â Glutamate 307 of C2II Affects Channel Propertiesin Vitroand pH-Dependent C2I Translocationin Vivoâ€. Biochemistry, 2003, 42, 5368-5377.	2.5	52
122	Cholesterol- and Sphingolipid-rich Microdomains Are Essential for Microtubule-based Membrane Protrusions Induced by Clostridium difficile Transferase (CDT). Journal of Biological Chemistry, 2011, 286, 29356-29365.	3.4	52
123	Identification of the Cellular Receptor of Clostridium spiroforme Toxin. Infection and Immunity, 2012, 80, 1418-1423.	2.2	52
124	Bidirectional attack on the actin cytoskeleton. Bacterial protein toxins causing polymerization or depolymerization of actin. Toxicon, 2012, 60, 572-581.	1.6	51
125	Fast neurotransmitter release regulated by the endocytic scaffold intersectin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8266-8271.	7.1	51
126	Rho GTPases and Phosphoinositide 3-Kinase Organize Formation of Branched Dendrites. Journal of Biological Chemistry, 2004, 279, 585-596.	3.4	50

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127	Bacterial glycosyltransferase toxins. Cellular Microbiology, 2015, 17, 1752-1765.	2.1	49
128	Different types of ADP-ribose protein bonds formed by botulinum C2 toxin, botulinum ADP-ribosyltransferase C3 and pertussis toxin. Biochemical and Biophysical Research Communications, 1988, 156, 361-367.	2.1	48
129	Recombinant Yersinia YopT Leads to Uncoupling of RhoA-Effector Interaction. Infection and Immunity, 2001, 69, 7535-7543.	2.2	48
130	Processing of Clostridium difficile toxins. Journal of Medical Microbiology, 2008, 57, 690-696.	1.8	47
131	Bacterial toxin and effector glycosyltransferases. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 134-143.	2.4	45
132	Bacillus sphaericusmosquitocidal toxin (MTX) and pierisin: the enigmatic offspring from the family of ADPâ€ribosyltransferases. Molecular Microbiology, 2006, 62, 621-630.	2.5	44
133	The chaperone Hsp90 and PPIases of the cyclophilin and FKBP families facilitate membrane translocation ofPhotorhabdus luminescensâ€...ADP-ribosyltransferases. Cellular Microbiology, 2014, 16, 490-503.	2.1	43
134	Hsp70 facilitates trans-membrane transport of bacterial ADP-ribosylating toxins into the cytosol of mammalian cells. Scientific Reports, 2017, 7, 2724.	3.3	43
135	Isotype-specific Degradation of Rac Activated by the Cytotoxic Necrotizing Factor 1. Journal of Biological Chemistry, 2004, 279, 35840-35848.	3.4	42
136	Cleavage of Escherichia coli Cytotoxic Necrotizing Factor 1 Is Required for Full Biologic Activity. Infection and Immunity, 2009, 77, 1835-1841.	2.2	42
137	Cyclophilin-Facilitated Membrane Translocation as Pharmacological Target to Prevent Intoxication of Mammalian Cells by Binary Clostridial Actin ADP-Ribosylated Toxins. Journal of Molecular Biology, 2015, 427, 1224-1238.	4.2	42
138	A role for Rho in receptor- and G protein-stimulated phospholipase C Reduction in phosphatidylinositol 4,5-bisphosphate by Clostridium difficile toxin B. Naunyn-Schmiedeberg's Archives of Pharmacology, 1996, 354, 87-94.	3.0	41
139	Rho-SpecificBacillus cereusADP-Ribosyltransferase C3cer Cloning and Characterization. Biochemistry, 2003, 42, 9694-9702.	2.5	41
140	Clostridium difficile Binary Toxin CDT Induces Clustering of the Lipolysis-Stimulated Lipoprotein Receptor into Lipid Rafts. MBio, 2013, 4, e00244-13.	4.1	41
141	Septins guide microtubule protrusions induced by actin-depolymerizing toxins like Clostridium difficile transferase (CDT). Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7870-7875.	7.1	41
142	Cellular Uptake and Mode-of-Action of Clostridium difficile Toxins. Advances in Experimental Medicine and Biology, 2018, 1050, 77-96.	1.6	41
143	Rac and Phosphatidylinositol 3-Kinase Regulate the Protein Kinase B in FcÎµRI Signaling in RBL 2H3 Mast Cells. Journal of Immunology, 2001, 166, 1627-1634.	0.8	40
144	Pasteurella multocida toxin is a potent activator of anti-apoptotic signalling pathways. Cellular Microbiology, 2010, 12, 1174-1185.	2.1	40

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145	Interaction of the Clostridium difficile Binary Toxin CDT and Its Host Cell Receptor, Lipolysis-stimulated Lipoprotein Receptor (LSR). Journal of Biological Chemistry, 2015, 290, 14031-14044.	3.4	40
146	The uptake machinery of clostridial actin ADP-ribosylating toxins - a cell delivery system for fusion proteins and polypeptide drugs. Naunyn-Schmiedeberg's Archives of Pharmacology, 2002, 366, 501-512.	3.0	39
147	Activation of GÎ±i and Subsequent Uncoupling of Receptor-GÎ±i Signaling by Pasteurella multocida Toxin. Journal of Biological Chemistry, 2008, 283, 23288-23294.	3.4	39
148	Mechanism of C2-toxin Inhibition by Fluphenazine and Related Compounds: Investigation of their Binding Kinetics to the C2II-channel using the Current Noise Analysis. Journal of Molecular Biology, 2003, 333, 527-540.	4.2	38
149	Crystal structure of the C3botâ€“RalA complex reveals a novel type of action of a bacterial exoenzyme. EMBO Journal, 2005, 24, 3670-3680.	7.8	38
150	Clostridium botulinum C2 Toxin. Journal of Biological Chemistry, 2008, 283, 3904-3914.	3.4	37
151	Substrate specificity of Pasteurella multocida toxin for Î± subunits of heterotrimeric G proteins. FASEB Journal, 2013, 27, 832-842.	0.5	37
152	The Escherichia coli effector EspJ blocks Src kinase activity via amidation and ADP ribosylation. Nature Communications, 2014, 5, 5887.	12.8	37
153	Tyrosine glycosylation of Rho by Yersinia toxin impairs blastomere cell behaviour in zebrafish embryos. Nature Communications, 2015, 6, 7807.	12.8	37
154	Structureâ^'Function Analysis of the Rho-ADP-Ribosylating Exoenzyme C3stau2 from Staphylococcus aureus. Biochemistry, 2002, 41, 1539-1544.	2.5	36
155	Action of Pasteurella multocida Toxin Depends on the Helical Domain of GÎ±q. Journal of Biological Chemistry, 2004, 279, 34150-34155.	3.4	36
156	Modulation of Host Cell Gene Expression through Activation of STAT Transcription Factors by Pasteurella multocida Toxin. Journal of Biological Chemistry, 2007, 282, 3050-3057.	3.4	36
157	Lu/BCAM Adhesion Glycoprotein Is a Receptor for Escherichia coli Cytotoxic Necrotizing Factor 1 (CNF1). PLoS Pathogens, 2014, 10, e1003884.	4.7	36
158	The Hsp90 machinery facilitates the transport of diphtheria toxin into human cells. Scientific Reports, 2017, 7, 613.	3.3	36
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