Roland Benz

List of Publications by Year in Descending Order

318 papers	12,556 citations	57 h-index	94 g-index
329 ext. papers	13,342 ext. citations	4.5 avg, IF	6.07 L-index

#	Paper	IF	Citations
318	Permeation of Fosfomycin through the Phosphate-Specific Channels OprP and OprO of .. *Journal of Physical Chemistry B*, **2022**,	3.4	2
317	Characterization and Pharmacological Inhibition of the Pore-Forming CDTb Toxin. *Toxins*, **2021**, 13,	4.9	3
316	Prokaryotic and Eukaryotic Porins: Comparison of Structure and Function **2021**, 367-398		
315	Fosmidomycin transport through the phosphate-specific porins OprO and OprP of Pseudomonas aeruginosa. *Molecular Microbiology*, **2021**, 116, 97-108	4.1	4
314	Clostridium perfringens Beta2 toxin forms highly cation-selective channels in lipid bilayers. *European Biophysics Journal*, **2021**, 51, 15	1.9	0
313	Historical Perspective of Pore-Forming Activity Studies of Voltage-Dependent Anion Channel (Eukaryotic or Mitochondrial Porin) Since Its Discovery in the 70th of the Last Century.. *Frontiers in Physiology*, **2021**, 12, 734226	4.6	0
312	Characteristics of the Protein Complexes and Pores Formed by Hemolysin BL. *Toxins*, **2020**, 12,	4.9	6
311	Human peptide □defensin-1 interferes with Clostridioides difficile toxins TcdA, TcdB, and CDT. *FASEB Journal*, **2020**, 34, 6244-6261	0.9	12
310	Membrane Activity and Channel Formation of the Adenylate Cyclase Toxin (CyaA) of in Lipid Bilayer Membranes. *Toxins*, **2020**, 12,	4.9	4
309	LtxA Hijacks Endocytic Trafficking Pathways in Human Lymphocytes. *Pathogens*, **2020**, 9,	4.5	1
308	Central residues of the amphipathic □hairpin loop control the properties of Clostridium perfringens epsilon-toxin channel. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183364	3.8	
307	Role of AIP56 disulphide bond and its reduction by cytosolic redox systems for efficient intoxication. *Cellular Microbiology*, **2020**, 22, e13109	3.9	2
306	Revisiting an old antibiotic: bacitracin neutralizes binary bacterial toxins and protects cells from intoxication. *FASEB Journal*, **2019**, 33, 5755-5771	0.9	6
305	Structure of a Tc holotoxin pore provides insights into the translocation mechanism. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23083-23090	11.5	16
304	Characterization of the first planctomycetal outer membrane protein identifies a channel in the outer membrane of the anammox bacterium Kuenenia stuttgartiensis. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 767-776	3.8	6
303	Identification and characterization of smallest pore-forming protein in the cell wall of pathogenic Corynebacterium urealyticum DSM 7109. *BMC Biochemistry*, **2018**, 19, 3	4.8	2
302	Generation of a recombinant Aggregatibacter actinomycetemcomitans RTX toxin in Escherichia coli. *Gene*, **2018**, 672, 106-114	3.8	2

301	The diphenylpyrazole compound anle138b blocks A□channels and rescues disease phenotypes in a mouse model for amyloid pathology. *EMBO Molecular Medicine*, **2018**, 10, 32-47	12	39
300	Enterotoxin: The Toxin Forms Highly Cation-Selective Channels in Lipid Bilayers. *Toxins*, **2018**, 10,	4.9	7
299	The major outer membrane protein of Legionella pneumophila Lpg1974 shows pore-forming characteristics similar to the human mitochondrial outer membrane pore, hVDAC1. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1544-1553	3.8	2
298	Chloroquine derivatives block the translocation pores and inhibit cellular entry of Clostridium botulinum C2 toxin and Bacillus anthracis lethal toxin. *Archives of Toxicology*, **2017**, 91, 1431-1445	5.8	11
297	Single Residue Acts as Gate in OccK Channels. *Journal of Physical Chemistry B*, **2017**, 121, 2614-2621	3.4	15
296	Identification and characterization of a cell wall porin from Gordonia jacobaea. *Journal of General and Applied Microbiology*, **2017**, 63, 266-273	1.5	1
295	Conversion of OprO into an OprP-like Channel by Exchanging Key Residues in the Channel Constriction. *Biophysical Journal*, **2017**, 113, 829-834	2.9	9
294	Magnesium therapy improves outcome in Streptococcus pneumoniae meningitis by altering pneumolysin pore formation. *British Journal of Pharmacology*, **2017**, 174, 4295-4307	8.6	8
293	Toxin Transport by A-B Type of Toxins in Eukaryotic Target Cells and Its Inhibition by Positively Charged Heterocyclic Molecules. *Current Topics in Microbiology and Immunology*, **2017**, 406, 229-256	3.3	7
292	Draft Genome Sequence of Dietzia maris DSM 43672, a Gram-Positive Bacterium of the Mycolata Group. *Genome Announcements*, **2016**, 4,		4
291	Ligand-lipid and ligand-core affinity control the interaction of gold nanoparticles with artificial lipid bilayers and cell membranes. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1409-19	6	15
290	Channel formation by RTX-toxins of pathogenic bacteria: Basis of their biological activity. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 526-37	3.8	28
289	Formation of small transmembrane pores: An intermediate stage on the way to Bacillus cereus non-hemolytic enterotoxin (Nhe) full pores in the absence of NheA. *Biochemical and Biophysical Research Communications*, **2016**, 469, 613-8	3.4	22
288	Chloroquine Analog Interaction with C2- and Iota-Toxin in Vitro and in Living Cells. *Toxins*, **2016**, 8,	4.9	8
287	A Review on the Valorization of Macroalgal Wastes for Biomethane Production. *Marine Drugs*, **2016** , 14,	6	66
286	Zellwandkanäle von Corynebacteriales. *BioSpektrum*, **2016**, 22, 691-694	0.1	
285	Online monitoring of concentration and dynamics of volatile fatty acids in anaerobic digestion processes with mid-infrared spectroscopy. *Bioprocess and Biosystems Engineering*, **2015**, 38, 237-49	3.7	39
284	Structure, Dynamics, and Substrate Specificity of the OprO Porin from Pseudomonas aeruginosa. *Biophysical Journal*, **2015**, 109, 1429-38	2.9	28

283	Chitoporin from the Marine Bacterium Vibrio harveyi: PROBING THE ESSENTIAL ROLES OF TRP136 AT THE SURFACE OF THE CONSTRICTION ZONE. *Journal of Biological Chemistry*, **2015**, 290, 19184-96	5.4	11
282	Residues involved in the pore-forming activity of the Clostridium perfringens iota toxin. *Cellular Microbiology*, **2015**, 17, 288-302	3.9	20
281	Transport across the outer membrane porin of mycolic acid containing actinomycetales: Nocardia farcinica. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 654-61	3.8	3
280	Tuning the affinity of anion binding sites in porin channels with negatively charged residues: molecular details for OprP. *ACS Chemical Biology*, **2015**, 10, 441-51	4.9	23
279	Thermo-acidic pretreatment of marine brown algae Fucus vesiculosus to increase methane production□ disposal principle for macroalgae waste from beaches. *Journal of Applied Phycology*, **2015**, 27, 601-609	3.2	22
278	Thermo-Acidic Pretreatment of Beach Macroalgae from R□gen to Optimize Biomethane Production--Double Benefit with Simultaneous Bioenergy Production and Improvement of Local Beach and Waste Management. *Marine Drugs*, **2015**, 13, 5681-705	6	20
277	Anaerobic Digestion of Laminaria japonica Waste from Industrial Production Residues in Laboratory- and Pilot-Scale. *Marine Drugs*, **2015**, 13, 5947-75	6	19
276	Toxins Secreted by Bacillus Isolated from Lung Adenocarcinomas Favor the Penetration of Toxic Substances. *Frontiers in Microbiology*, **2015**, 6, 1301	5.7	3
275	Basic mechanism of pore-forming toxins **2015**, 605-626		
274	Solid-state NMR, electrophysiology and molecular dynamics characterization of human VDAC2. *Journal of Biomolecular NMR*, **2015**, 61, 311-20	3	22
273	Pore forming activity of the potent RTX-toxin produced by pediatric pathogen Kingella kingae: Characterization and comparison to other RTX-family members. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 1536-44	3.8	17
272	OmpW of Caulobacter crescentus Functions as an Outer Membrane Channel for Cations. *PLoS ONE*, **2015**, 10, e0143557	3.7	16
271	Intracellular trafficking of AIP56, an NF-B-cleaving toxin from Photobacterium damselae subsp. piscicida. *Infection and Immunity*, **2014**, 82, 5270-85	3.7	10
270	Study of the protein complex, pore diameter, and pore-forming activity of the Borrelia burgdorferi P13 porin. *Journal of Biological Chemistry*, **2014**, 289, 18614-24	5.4	11
269	Discovery of a cell wall porin in the mycolic-acid-containing actinomycete Dietzia maris DSM 43672. *FEBS Journal*, **2014**, 281, 2030-41	5.7	5
268	Perspectives in the Research on Antimicrobial Peptides **2014**, 269-284		2
267	Synthetic ion transporters: pore formation in bilayers via coupled activity of non-spanning cobalt-cage amphiphiles. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 1247-54	3.8	6
266	Inhibitions of the translocation pore of Clostridium botulinum C2 toxin by tailored azolopyridinium salts protects human cells from intoxication. *Toxicology*, **2014**, 316, 25-33	4.4	21

265	The deletion of several amino acid stretches of Escherichia coli alpha-hemolysin (HlyA) suggests that the channel-forming domain contains beta-strands. *PLoS ONE*, **2014**, 9, e112248	3.7	16
264	Role of the central arginine R133 toward the ion selectivity of the phosphate specific channel OprP: effects of charge and solvation. *Biochemistry*, **2013**, 52, 5522-32	3.2	23
263	TcdA1 of Photorhabdus luminescens: electrophysiological analysis of pore formation and effector binding. *Biophysical Journal*, **2013**, 105, 376-84	2.9	18
262	Identification and characterization of the channel-forming protein in the cell wall of Corynebacterium amycolatum. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 2574-82	3.8	25
261	Deletion of β-strands 9 and 10 converts VDAC1 voltage-dependence in an asymmetrical process. *Biochimica Et Biophysica Acta - Bioenergetics*, **2013**, 1827, 793-805	4.6	25
260	A syringe-like injection mechanism in Photorhabdus luminescens toxins. *Nature*, **2013**, 495, 520-3	50.4	104
259	α-synuclein aggregates and induces neurodegeneration in dopaminergic neurons. *Annals of Neurology*, **2013**, 74, 109-18	9.4	48
258	Differences in purinergic amplification of osmotic cell lysis by the pore-forming RTX toxins Bordetella pertussis CyaA and Actinobacillus pleuropneumoniae ApxIA: the role of pore size. *Infection and Immunity*, **2013**, 81, 4571-82	3.7	34
257	Specific binding of aluminium and iron ions to a cation-selective cell wall channel of Microthrix parvicella. *Environmental Microbiology*, **2013**, 15, 2775-86	5.2	4
256	Use of nonelectrolytes reveals the channel size and oligomeric constitution of the Borrelia burgdorferi P66 porin. *PLoS ONE*, **2013**, 8, e78272	3.7	20
255	Identification and characterization of a novel porin family highlights a major difference in the outer membrane of chlamydial symbionts and pathogens. *PLoS ONE*, **2013**, 8, e55010	3.7	15
254	Designed azolopyridinium salts block protective antigen pores in vitro and protect cells from anthrax toxin. *PLoS ONE*, **2013**, 8, e66099	3.7	23
253	Corynebacterium jeikeium jk0268 constitutes for the 40 amino acid long PorACj, which forms a homooligomeric and anion-selective cell wall channel. *PLoS ONE*, **2013**, 8, e75651	3.7	9
252	Structural determinants for membrane insertion, pore formation and translocation of Clostridium difficile toxin B. *Molecular Microbiology*, **2012**, 84, 1189-1190	4.1	
251	Pulling peptides across nanochannels: resolving peptide binding and translocation through the hetero-oligomeric channel from Nocardia farcinica. *ACS Nano*, **2012**, 6, 10699-707	16.7	52
250	Modeling the Ion Selectivity of the Phosphate Specific Channel OprP. *Journal of Physical Chemistry Letters*, **2012**, 3, 3639-45	6.4	27
249	β-Barrel mobility underlies closure of the voltage-dependent anion channel. *Structure*, **2012**, 20, 1540-9	5.2	91
248	DipA, a pore-forming protein in the outer membrane of Lyme disease spirochetes exhibits specificity for the permeation of dicarboxylates. *PLoS ONE*, **2012**, 7, e36523	3.7	17

247	Role of N-terminal His6-Tags in binding and efficient translocation of polypeptides into cells using anthrax protective antigen (PA). *PLoS ONE*, **2012**, 7, e46964	3.7	12
246	Pore-forming activity of BAD is regulated by specific phosphorylation and structural transitions of the C-terminal part. *Biochimica Et Biophysica Acta - General Subjects*, **2011**, 1810, 162-9	4	6
245	Hetero-oligomeric cell wall channels (porins) of Nocardia farcinica. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 1601-10	3.8	12
244	Permeation through the cell membrane of a boron-based □lactamase inhibitor. *PLoS ONE*, **2011**, 6, e23187	3.7	16
243	Cross-reactivity of anthrax and C2 toxin: protective antigen promotes the uptake of botulinum C2I toxin into human endothelial cells. *PLoS ONE*, **2011**, 6, e23133	3.7	17
242	Structural determinants for membrane insertion, pore formation and translocation of Clostridium difficile toxin B. *Molecular Microbiology*, **2011**, 79, 1643-54	4.1	80
241	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, 2112-7	11.5	63
240	Extracellular calcium reduction strongly increases the lytic capacity of pneumolysin from streptococcus pneumoniae in brain tissue. *Journal of Infectious Diseases*, **2011**, 204, 930-6	7	18
239	Generation of artificial channels by multimerization of □strands from natural porin. *Biological Chemistry*, **2011**, 392, 617-24	4.5	6
238	Insecticidal toxin complex proteins from Xenorhabdus nematophilus: structure and pore formation. *Journal of Biological Chemistry*, **2011**, 286, 22742-9	5.4	56
237	Changes in astrocyte shape induced by sublytic concentrations of the cholesterol-dependent cytolysin pneumolysin still require pore-forming capacity. *Toxins*, **2011**, 3, 43-62	4.9	17
236	Selective and specific internalization of clostridial C3 ADP-ribosyltransferases into macrophages and monocytes. *Cellular Microbiology*, **2010**, 12, 233-47	3.9	49
235	Reconstitution experiments and gene deletions reveal the existence of two-component major cell wall channels in the genus Corynebacterium. *Journal of Bacteriology*, **2010**, 192, 786-800	3.5	25
234	Mutations affecting export and activity of cytolysin A from Escherichia coli. *Journal of Bacteriology*, **2010**, 192, 4001-11	3.5	15
233	O-mycoloylated proteins from Corynebacterium: an unprecedented post-translational modification in bacteria. *Journal of Biological Chemistry*, **2010**, 285, 21908-12	5.4	34
232	Evolutionary parameter optimization of a fuzzy controller which is used to control a sewage treatment plant. *Water Science and Technology*, **2010**, 61, 53-66	2.2	4
231	P66 porins are present in both Lyme disease and relapsing fever spirochetes: a comparison of the biophysical properties of P66 porins from six Borrelia species. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 1197-203	3.8	23
230	Clostridium septicum alpha-toxin forms pores and induces rapid cell necrosis. *Toxicon*, **2010**, 55, 61-72	2.8	48

229	Can BAD pores be good? New insights from examining BAD as a target of RAF kinases. *Advances in Enzyme Regulation*, **2010**, 50, 147-59		3
228	Pxmp2 is a channel-forming protein in Mammalian peroxisomal membrane. *PLoS ONE*, **2009**, 4, e5090	3.7	110
227	Identification of novel in vivo phosphorylation sites of the human proapoptotic protein BAD: pore-forming activity of BAD is regulated by phosphorylation. *Journal of Biological Chemistry*, **2009**, 284, 28004-28020	5.4	39
226	Oligomerization is involved in pore formation by Bordetella adenylate cyclase toxin. *FASEB Journal*, **2009**, 23, 2831-43	0.9	47
225	Molecular and functional characterization of VDAC2 purified from mammal spermatozoa. *Bioscience Reports*, **2009**, 29, 351-62	4.1	51
224	The major outer membrane protein OprG of Pseudomonas aeruginosa contributes to cytotoxicity and forms an anaerobically regulated, cation-selective channel. *FEMS Microbiology Letters*, **2009**, 296, 241-7	2.9	44
223	Identification of the channel-forming domain of Clostridium perfringens Epsilon-toxin (ETX). *Biochimica Et Biophysica Acta - Biomembranes*, **2009**, 1788, 2584-93	3.8	39
222	ClyA cytolysin from Salmonella: distribution within the genus, regulation of expression by SlyA, and pore-forming characteristics. *International Journal of Medical Microbiology*, **2009**, 299, 21-35	3.7	44
221	Detergent-like activity and alpha-helical structure of warnericin RK, an anti-Legionella peptide. *Biophysical Journal*, **2009**, 97, 1933-40	2.9	19
220	Structural properties of pore-forming oligomers of alpha-synuclein. *Journal of the American Chemical Society*, **2009**, 131, 17482-9	16.4	162
219	Identification of a cell-wall channel in the corynemycolic acid-free Gram-positive bacterium Corynebacterium amycolatum. *International Microbiology*, **2009**, 12, 29-38	3	8
218	A putative alpha-helical porin from Corynebacterium glutamicum. *Journal of Molecular Biology*, **2008**, 379, 482-91	6.5	28
217	Pore formation by the Bordetella adenylate cyclase toxin in lipid bilayer membranes: role of voltage and pH. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 260-9	3.8	17
216	Binding of N-terminal fragments of anthrax edema factor (EF(N)) and lethal factor (LF(N)) to the protective antigen pore. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 1436-43	3.8	6
215	Amino acid residues involved in membrane insertion and pore formation of Clostridium botulinum C2 toxin. *Biochemistry*, **2008**, 47, 8406-13	3.2	28
214	Clostridium botulinum C2 toxin. Identification of the binding site for chloroquine and related compounds and influence of the binding site on properties of the C2II channel. *Journal of Biological Chemistry*, **2008**, 283, 3904-14	5.4	35
213	Moraxella catarrhalis M35 is a general porin that is important for growth under nutrient-limiting conditions and in the nasopharynges of mice. *Journal of Bacteriology*, **2008**, 190, 7994-8002	3.5	12
212	An RND-type efflux system in Borrelia burgdorferi is involved in virulence and resistance to antimicrobial compounds. *PLoS Pathogens*, **2008**, 4, e1000009	7.6	69

211	Oms38 is the first identified pore-forming protein in the outer membrane of relapsing fever spirochetes. *Journal of Bacteriology*, **2008**, 190, 7035-42	3.5	12
210	Clostridium perfringens delta toxin is sequence related to beta toxin, NetB, and Staphylococcus pore-forming toxins, but shows functional differences. *PLoS ONE*, **2008**, 3, e3764	3.7	40
209	Determination of the conformation of the human VDAC1 N-terminal peptide, a protein moiety essential for the functional properties of the pore. *ChemBioChem*, **2007**, 8, 744-56	3.8	58
208	Elimination of channel-forming activity by insertional inactivation of the p66 gene in Borrelia burgdorferi. *FEMS Microbiology Letters*, **2007**, 266, 241-9	2.9	32
207	Corynebacterium diphtheriae: identification and characterization of a channel-forming protein in the cell wall. *Journal of Bacteriology*, **2007**, 189, 7709-19	3.5	15
206	Characterization of OpdH, a Pseudomonas aeruginosa porin involved in the uptake of tricarboxylates. *Journal of Bacteriology*, **2007**, 189, 929-39	3.5	30
205	Segments crucial for membrane translocation and pore-forming activity of Bordetella adenylate cyclase toxin. *Journal of Biological Chemistry*, **2007**, 282, 12419-29	5.4	56
204	Cholesterol-dependent pore formation of Clostridium difficile toxin A. *Journal of Biological Chemistry*, **2006**, 281, 10808-15	5.4	67
203	Anthrax edema factor, voltage-dependent binding to the protective antigen ion channel and comparison to LF binding. *Journal of Biological Chemistry*, **2006**, 281, 32335-43	5.4	17
202	The BBA01 protein, a member of paralog family 48 from Borrelia burgdorferi, is potentially interchangeable with the channel-forming protein P13. *Journal of Bacteriology*, **2006**, 188, 4207-17	3.5	16
201	Structural and functional characterization of an essential RTX subdomain of Bordetella pertussis adenylate cyclase toxin. *Journal of Biological Chemistry*, **2006**, 281, 16914-16926	5.4	80
200	Vegetative insecticidal protein (Vip1Ac) of Bacillus thuringiensis HD201: evidence for oligomer and channel formation. *Biochemistry*, **2006**, 45, 283-8	3.2	26
199	Deletion variants of Neurospora mitochondrial porin: electrophysiological and spectroscopic analysis. *Biophysical Journal*, **2006**, 90, 3155-64	2.9	17
198	Interaction of bacteriophage lambda with its cell surface receptor: an in vitro study of binding of the viral tail protein gpJ to LamB (Maltoporin). *Biochemistry*, **2006**, 45, 2708-20	3.2	29
197	Integron presence in a multiresistant Morganella morganii isolate. *International Journal of Antimicrobial Agents*, **2006**, 27, 505-12	14.3	10
196	Tracking the unfolding and refolding pathways of outer membrane protein porin from Paracoccus denitrificans. *Biochemistry*, **2006**, 45, 3972-80	3.2	8
195	Anthrax lethal factor (LF) mediated block of the anthrax protective antigen (PA) ion channel: effect of ionic strength and voltage. *Biochemistry*, **2006**, 45, 3060-8	3.2	22
194	Both alpha-haemolysin determinants contribute to full virulence of uropathogenic Escherichia coli strain 536. *Microbes and Infection*, **2006**, 8, 2006-12	9.3	34

193	Acylation of lysine 860 allows tight binding and cytotoxicity of Bordetella adenylate cyclase on CD11b-expressing cells. *Biochemistry*, **2005**, 44, 12759-66	3.2	57
192	Site-directed mutagenesis of the greasy slide aromatic residues within the LamB (maltoporin) channel of Escherichia coli: effect on ion and maltopentaose transport. *Journal of Molecular Biology* , **2005**, 352, 534-50	6.5	17
191	Identification and characterization of PorH, a new cell wall channel of Corynebacterium glutamicum. *Biochimica Et Biophysica Acta - Biomembranes*, **2005**, 1715, 25-36	3.8	22
190	Anthrax toxin protective antigen: inhibition of channel function by chloroquine and related compounds and study of binding kinetics using the current noise analysis. *Biophysical Journal*, **2005**, 88, 1715-24	2.9	51
189	StructureFunction Relationships in Sugar-Specific Porins **2005**, 169-181		
188	The Structures of General Porins **2005**, 25-40		5
187	Regulation of Bacterial Porin Function **2005**, 79-98		3
186	Drug Efflux and Protein Export through Channel-Tunnels **2005**, 139-167		
185	PorH, a new channel-forming protein present in the cell wall of Corynebacterium efficiens and Corynebacterium callunae. *Microbiology (United Kingdom)*, **2005**, 151, 2429-2438	2.9	15
184	Functional characterization of a second porin isoform in Drosophila melanogaster. DmPorin2 forms voltage-independent cation-selective pores. *Journal of Biological Chemistry*, **2004**, 279, 25364-73	5.4	22
183	Channel-forming (Porin) activity in Herpetosiphon aurantiacus Hp a2. *Journal of Bacteriology*, **2004**, 186, 6667-70	3.5	4
182	Molecular and functional characterisation of the Serratia marcescens outer membrane protein Omp1. *Biophysical Chemistry*, **2004**, 109, 215-27	3.5	8
181	A novel outer-membrane anion channel (porin) as part of a putatively two-component transport system for 4-toluenesulphonate in Comamonas testosteroni T-2. *Biochemical Journal*, **2004**, 383, 91-9	3.8	24
180	Lipid II-mediated pore formation by the peptide antibiotic nisin: a black lipid membrane study. *Journal of Bacteriology*, **2004**, 186, 3259-61	3.5	152
179	Identification of a cation-specific channel (TipA) in the cell wall of the gram-positive mycolata Tsukamurella inchonensis: the gene of the channel-forming protein is identical to mspA of Mycobacterium smegmatis and mppA of Mycobacterium phlei. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1667, 47-55	3.8	10
178	Use of the alpha-hemolysin secretion system of Escherichia coli for antigen delivery in the Salmonella typhi Ty21a vaccine strain. *International Journal of Medical Microbiology*, **2004**, 294, 363-71	3.7	13
177	Porin OmpP2 of Haemophilus influenzae shows specificity for nicotinamide-derived nucleotide substrates. *Journal of Biological Chemistry*, **2003**, 278, 24269-76	5.4	22
176	Characterization of dominantly negative mutant ClyA cytotoxin proteins in Escherichia coli. *Journal of Bacteriology*, **2003**, 185, 5491-9	3.5	45

175	Clostridium botulinum C2 toxin: low pH-induced pore formation is required for translocation of the enzyme component C2I into the cytosol of host cells. *Journal of Biological Chemistry*, **2003**, 278, 37360-7	5.4	62
174	Investigation of substrate-specific porin channels in lipid bilayer membranes. *Membrane Science and Technology*, **2003**, 7, 347-369		1
173	Identification of an anion-specific channel in the cell wall of the Gram-positive bacterium Corynebacterium glutamicum. *Molecular Microbiology*, **2003**, 50, 1295-308	4.1	44
172	PorA represents the major cell wall channel of the Gram-positive bacterium Corynebacterium glutamicum. *Journal of Bacteriology*, **2003**, 185, 4779-86	3.5	34
171	Channel formation by the binding component of Clostridium botulinum C2 toxin: glutamate 307 of C2II affects channel properties in vitro and pH-dependent C2I translocation in vivo. *Biochemistry*, **2003**, 42, 5368-77	3.2	48
170	Channel formation in model membranes by the adenylate cyclase toxin of Bordetella pertussis: effect of calcium. *Biochemistry*, **2003**, 42, 8077-84	3.2	29
169	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, 527-40	6.5	37
168	CymA of Klebsiella oxytoca outer membrane: binding of cyclodextrins and study of the current noise of the open channel. *Biophysical Journal*, **2003**, 85, 876-85	2.9	22
167	The cell wall of the pathogenic bacterium Rhodococcus equi contains two channel-forming proteins with different properties. *Journal of Bacteriology*, **2003**, 185, 2952-60	3.5	20
166	Regulation of glycolysis by Raf protein serine/threonine kinases. *Advances in Enzyme Regulation*, **2002**, 42, 317-32		37
165	The cell wall of Micromonospora purpurea contains a high conductance channel. *Archives of Microbiology*, **2002**, 177, 184-91	3	5
164	Bacterial membrane injuries induced by lactacin F and nisin. *International Microbiology*, **2002**, 5, 73-80	3	19
163	Negative regulation of mitochondrial VDAC channels by C-Raf kinase. *BMC Cell Biology*, **2002**, 3, 14		51
162	Diffusion through channel derivatives of the Escherichia coli FhuA transport protein. *FEBS Journal*, **2002**, 269, 4948-59		40
161	Interaction of Clostridium perfringens iota-toxin with lipid bilayer membranes. Demonstration of channel formation by the activated binding component Ib and channel block by the enzyme component Ia. *Journal of Biological Chemistry*, **2002**, 277, 6143-52	5.4	67
160	Elimination of channel-forming activity by insertional inactivation of the p13 gene in Borrelia burgdorferi. *Journal of Bacteriology*, **2002**, 184, 6811-9	3.5	31
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