

# Martti Vaara

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

6,278  
citations

117625

34  
h-index

114465

63  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4976  
citing authors

#	ARTICLE	IF	CITATIONS
1	Agents that increase the permeability of the outer membrane. <i>Microbiological Reviews</i> , 1992, 56, 395-411.	10.1	1,468
2	Agents that increase the permeability of the outer membrane.. <i>Microbiological Reviews</i> , 1992, 56, 395-411.	10.1	925
3	Sensitization of Gram-negative bacteria to antibiotics and complement by a nontoxic oligopeptide. <i>Nature</i> , 1983, 303, 526-528.	27.8	232
4	Polycations sensitize enteric bacteria to antibiotics. <i>Antimicrobial Agents and Chemotherapy</i> , 1983, 24, 107-113.	3.2	216
5	Characterization of the lipopolysaccharide from the polymyxin-resistant <i>pmrA</i> mutants of <i>Salmonella typhimurium</i> . <i>FEBS Letters</i> , 1981, 129, 145-149.	2.8	198
6	Group of peptides that act synergistically with hydrophobic antibiotics against gram-negative enteric bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 1996, 40, 1801-1805.	3.2	188
7	Lipopolysaccharides of polymyxin B-resistant mutants of <i>Escherichia coli</i> are extensively substituted by 2-aminoethyl pyrophosphate and contain aminoarabinose in lipid A. <i>Molecular Microbiology</i> , 1995, 16, 271-278.	2.5	185
8	Increased substitution of phosphate groups in lipopolysaccharides and lipid A of the polymyxin-resistant <i>pmrA</i> mutants of <i>Salmonella typhimurium</i> : a <sup>31</sup> P-NMR study. <i>Molecular Microbiology</i> , 1994, 11, 481-487.	2.5	162
9	Antibiotic-supersusceptible mutants of <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1993, 37, 2255-2260.	3.2	160
10	Outer membrane permeability barrier to azithromycin, clarithromycin, and roxithromycin in gram-negative enteric bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 1993, 37, 354-356.	3.2	151
11	Novel Polymyxin Derivatives Carrying Only Three Positive Charges Are Effective Antibacterial Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 3229-3236.	3.2	126
12	New approaches in peptide antibiotics. <i>Current Opinion in Pharmacology</i> , 2009, 9, 571-576.	3.5	119
13	Potential of Antibiotic Activity by a Novel Cationic Peptide: Potency and Spectrum of Activity of SPR741. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	118
14	Outer Membrane Permeability Barrier in <i>Escherichia coli</i> Mutants That Are Defective in the Late Acyltransferases of Lipid A Biosynthesis. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1459-1462.	3.2	113
15	Outer Membrane Permeability Barrier Disruption by Polymyxin in Polymyxin-Susceptible and -Resistant <i>Salmonella typhimurium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1981, 19, 578-583.	3.2	109
16	Susceptibility of gram-negative bacteria to polymyxin B nonapeptide. <i>Antimicrobial Agents and Chemotherapy</i> , 1984, 25, 701-705.	3.2	103
17	A Novel Polymyxin Derivative That Lacks the Fatty Acid Tail and Carries Only Three Positive Charges Has Strong Synergism with Agents Excluded by the Intact Outer Membrane. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3341-3346.	3.2	103
18	Increased outer membrane resistance to ethylenediaminetetraacetate and cations in novel lipid A mutants. <i>Journal of Bacteriology</i> , 1981, 148, 426-434.	2.2	102

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19	Polymyxin Derivatives that Sensitize Gram-Negative Bacteria to Other Antibiotics. <i>Molecules</i> , 2019, 24, 249.	3.8	95
20	Polymyxins and their novel derivatives. <i>Current Opinion in Microbiology</i> , 2010, 13, 574-581.	5.1	87
21	Decreased binding of polymyxin by polymyxin-resistant mutants of <i>Salmonella typhimurium</i> . <i>Journal of Bacteriology</i> , 1979, 139, 664-667.	2.2	85
22	Novel derivatives of polymyxins. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 1213-1219.	3.0	79
23	Two Improved Methods for Obtaining Axenic Cultures of Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 1979, 38, 1011-1014.	3.1	75
24	Poor Antibacterial Effect of Ropivacaine. <i>Anesthesiology</i> , 1999, 91, 884-884.	2.5	73
25	Polymyxins and Their Potential Next Generation as Therapeutic Antibiotics. <i>Frontiers in Microbiology</i> , 2019, 10, 1689.	3.5	71
26	Human kidney on a chip assessment of polymyxin antibiotic nephrotoxicity. <i>JCI Insight</i> , 2018, 3, .	5.0	60
27	Effect of small cationic leukocyte peptides (defensins) on the permeability barrier of the outer membrane. <i>Infection and Immunity</i> , 1988, 56, 2324-2329.	2.2	50
28	Sodium hexametaphosphate sensitizes <i>Pseudomonas aeruginosa</i> , several other species of <i>Pseudomonas</i> , and <i>Escherichia coli</i> to hydrophobic drugs. <i>Antimicrobial Agents and Chemotherapy</i> , 1989, 33, 1741-1747.	3.2	48
29	rfaP mutants of <i>Salmonella typhimurium</i> . <i>FEBS Journal</i> , 1989, 185, 541-546.	0.2	45
30	Ability of cecropin B to penetrate the enterobacterial outer membrane. <i>Antimicrobial Agents and Chemotherapy</i> , 1994, 38, 2498-2501.	3.2	44
31	Eight bacterial proteins, including UDP-N-acetylglucosamine acyltransferase (LpxA) and three other transferases of <i>Escherichia coli</i> , consist of a six-residue periodicity theme. <i>FEMS Microbiology Letters</i> , 1992, 97, 249-254.	1.8	43
32	An outer membrane-disorganizing peptide PMBN sensitizes <i>E. coli</i> strains to serum bactericidal action. <i>Journal of Immunology</i> , 1984, 132, 2582-9.	0.8	43
33	Novel polymyxin derivatives are less cytotoxic than polymyxin B to renal proximal tubular cells. <i>Peptides</i> , 2012, 35, 248-252.	2.4	39
34	Rapid Molecular Characterization of <i>Acinetobacter baumannii</i> Clones with rep-PCR and Evaluation of Carbapenemase Genes by New Multiplex PCR in Hospital District of Helsinki and Uusimaa. <i>PLoS ONE</i> , 2014, 9, e85854.	2.5	38
35	Bacterial $\alpha$ -histone-like protein HLP-I (HLP-I) is an outer membrane constituent?. <i>FEBS Letters</i> , 1990, 262, 123-126.	2.8	37
36	A Novel Enzyme Application for Corn Wet Milling. <i>Starch/Staerke</i> , 1988, 40, 409-411.	2.1	34

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37	Overgrowth of <i>Enterococcus faecium</i> in the Feces of Patients with Hematologic Malignancies. <i>Clinical Infectious Diseases</i> , 1996, 23, 694-697.	5.8	33
38	Pharmacokinetics of novel antimicrobial cationic peptides NAB 7061 and NAB 739 in rats following intravenous administration. <i>Journal of Antimicrobial Chemotherapy</i> , 2009, 64, 1067-1070.	3.0	32
39	New polymyxin derivatives that display improved efficacy in animal infection models as compared to polymyxin B and colistin. <i>Medicinal Research Reviews</i> , 2018, 38, 1661-1673.	10.5	32
40	The novel polymyxin derivative NAB739 is remarkably less cytotoxic than polymyxin B and colistin to human kidney proximal tubular cells. <i>International Journal of Antimicrobial Agents</i> , 2013, 41, 292-293.	2.5	30
41	Susceptibility of carbapenemase-producing strains of <i>Klebsiella pneumoniae</i> and <i>Escherichia coli</i> to the direct antibacterial activity of NAB739 and to the synergistic activity of NAB7061 with rifampicin and clarithromycin. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 942-945.	3.0	29
42	Novel polymyxin derivatives are effective in treating experimental <i>Escherichia coli</i> peritoneal infection in mice. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 981-985.	3.0	27
43	Antimicrobial activity of the novel polymyxin derivative NAB739 tested against Gram-negative pathogens. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 636-639.	3.0	27
44	Structure-activity studies on novel polymyxin derivatives that carry only three positive charges. <i>Peptides</i> , 2010, 31, 2318-2321.	2.4	24
45	Antimicrobial susceptibility of <i>Salmonella typhimurium</i> carrying the outer membrane permeability mutation SS-B. <i>Antimicrobial Agents and Chemotherapy</i> , 1990, 34, 853-857.	3.2	22
46	Chemical Structure of the Lipid A Component of Lipopolysaccharides of the Genus <i>Pectinatus</i> . <i>FEBS Journal</i> , 1994, 224, 63-70.	0.2	21
47	Structure-activity studies on polymyxin derivatives carrying three positive charges only reveal a new class of compounds with strong antibacterial activity. <i>Peptides</i> , 2017, 91, 8-12.	2.4	20
48	Preferential synthesis of heptaacyl lipopolysaccharide by the ssc permeability mutant of <i>Salmonella typhimurium</i> . <i>FEBS Journal</i> , 1992, 204, 1101-1106.	0.2	17
49	Polymyxin derivatives NAB739 and NAB815 are more effective than polymyxin B in murine <i>Escherichia coli</i> pyelonephritis. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 452-455.	3.0	17
50	Susceptibility of Gram-negative bacteria to the synergistic bactericidal action of serum and polymyxin B nonapeptide. <i>Canadian Journal of Microbiology</i> , 1986, 32, 66-69.	1.7	16
51	First isolations of KPC-2-carrying ST258 <i>Klebsiella pneumoniae</i> strains in Finland, June and August 2009. <i>Eurosurveillance</i> , 2009, 14, .	7.0	16
52	Defective biosynthesis of the lipid A component of temperature-sensitive <i>firA</i> ( <i>omsA</i> ) Mutant of <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1993, 212, 363-369.	0.2	15
53	Increase of prostate biopsy-related bacteremic complications in southern Finland, 2005-2013: a population-based analysis. <i>Prostate Cancer and Prostatic Diseases</i> , 2016, 19, 417-422.	3.9	14
54	Using Chemical Probes to Assess the Feasibility of Targeting SecA for Developing Antimicrobial Agents against Gram-Negative Bacteria. <i>ChemMedChem</i> , 2016, 11, 2511-2521.	3.2	14

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55	The polymyxin derivative NAB739 is synergistic with several antibiotics against polymyxin-resistant strains of <i>Escherichia coli</i> , <i>Klebsiella pneumoniae</i> and <i>Acinetobacter baumannii</i> . <i>Peptides</i> , 2019, 112, 149-153.	2.4	13
56	The outer membrane permeability-increasing action of linear analogues of polymyxin B nonapeptide. <i>Drugs Under Experimental and Clinical Research</i> , 1991, 17, 437-43.	0.3	12
57	Phosphate groups in lipopolysaccharides of <i>Salmonella typhimurium</i> rfaP mutants. <i>FEBS Letters</i> , 1997, 409, 457-460.	2.8	9
58	Low Levels of Cytokines and Endotoxin in a Fatal Case of Myocardial Depression and Septic Shock Due to <i>Yersinia pseudotuberculosis</i> . <i>Scandinavian Journal of Infectious Diseases</i> , 1995, 27, 533-535.	1.5	4
59	Non-tuberculous Mycobacteria can Cause Disseminated Mycobacteriosis in Cats. <i>Journal of Comparative Pathology</i> , 2018, 160, 1-9.	0.4	3
60	Evaluation of Antimicrobial Therapy of Blood Culture Positive Healthcare-Associated Infections in Children. <i>PLoS ONE</i> , 2015, 10, e0141555.	2.5	2
61	Polymyxins Targeting the Outer Membrane of Gram-negative Bacteria. <i>Medicinal Chemistry Reviews</i> , 2016, , 243-258.	0.1	2
62	Do salicylates and ascorbate increase the outer membrane permeability to hydrophobic antibiotics in <i>Pseudomonas aeruginosa</i> ?. <i>Drugs Under Experimental and Clinical Research</i> , 1990, 16, 569-74.	0.3	2
63	Excretion of the Polymyxin Derivative NAB739 in Murine Urine. <i>Antibiotics</i> , 2020, 9, 143.	3.7	1
64	CP-089...The effect of the blood culture result on subsequent antimicrobial treatment in paediatric hospital-acquired infections. <i>European Journal of Hospital Pharmacy</i> , 2014, 21, A36.1-A36.	1.1	0
65	Title is missing!. , 2020, 15, e0232775.		0
66	Title is missing!. , 2020, 15, e0232775.		0
67	Title is missing!. , 2020, 15, e0232775.		0
68	Title is missing!. , 2020, 15, e0232775.		0
69	Title is missing!. , 2020, 15, e0232775.		0
70	Title is missing!. , 2020, 15, e0232775.		0