Robert K Ernst

List of Publications by Year
in descending order

195 papers	13,783 citations	22146 59 h-index	24978 109 g-index
245 all docs	245 docs citations	245 times ranked	15353 citing authors

#	Article	IF	Citations
1	An aluminum hydroxide:CpG adjuvant enhances protection elicited by a SARS-CoV-2 receptor binding domain vaccine in aged mice. Science Translational Medicine, 2022, 14, .	12.4	57
2	A Novel Lipid-Based MALDI-TOF Assay for the Rapid Detection of Colistin-Resistant Enterobacter Species. Microbiology Spectrum, 2022, 10, e0144521.	3.0	9
3	Remodeling of Lipid A in Pseudomonas syringae pv. phaseolicola In Vitro. International Journal of Molecular Sciences, 2022, 23, 1996.	4.1	4
4	Intranasal administration of BReC-CoV-2 COVID-19 vaccine protects K18-hACE2 mice against lethal SARS-CoV-2 challenge. Npj Vaccines, 2022, 7, 36.	6.0	29
5	MgrB-Dependent Colistin Resistance in Klebsiella pneumoniae Is Associated with an Increase in Host-to-Host Transmission. MBio, 2022, 13, e0359521.	4.1	13
6	Decreasing Tryptophan and Increasing Neopterin Plasma Levels During Pregnancy are Associated with High First Trimester Porphyromonas gingivalis K-Serotype IgG Serointensity in a cohort of Hispanic Women. Current Topics in Medicinal Chemistry, 2022, 22, .	2.1	1
7	Klebsiella pneumoniae induces host metabolic stress that promotes tolerance to pulmonary infection. Cell Metabolism, 2022, 34, 761-774.e9.	16.2	36
8	Genomic characterization of lytic bacteriophages targeting genetically diverse Pseudomonas aeruginosa clinical isolates. IScience, 2022, 25, 104372.	4.1	16
9	Lipid A Structural Determination from a Single Colony. Analytical Chemistry, 2022, 94, 7460-7465.	6.5	9
10	Position-Specific Secondary Acylation Determines Detection of Lipid A by Murine TLR4 and Caspase-11. Infection and Immunity, 2022, 90, .	2.2	6
11	Lipid A Variants Activate Human TLR4 and the Noncanonical Inflammasome Differently and Require the Core Oligosaccharide for Inflammasome Activation. Infection and Immunity, 2022, 90, .	2.2	7
12	Repeated isolation of an antibiotic-dependent and temperature-sensitive mutant ofPseudomonas aeruginosafrom a cystic fibrosis patient. Journal of Antimicrobial Chemotherapy, 2021, 76, 616-625.	3.0	5
13	Optimization of RG1-VLP vaccine performance in mice with novel TLR4 agonists. Vaccine, 2021, 39, 292-302.	3.8	16
14	A scaffold hopping strategy to generate new aryl-2-amino pyrimidine MRSA biofilm inhibitors. RSC Medicinal Chemistry, 2021, 12, 293-296.	3.9	5
15	Colistin Heteroresistance Is Largely Undetected among Carbapenem-Resistant Enterobacterales in the United States. MBio, 2021, 12, .	4.1	29
16	Partitioning of Seven Different Classes of Antibiotics into LPS Monolayers Supports Three Different Permeation Mechanisms through the Outer Bacterial Membrane. Langmuir, 2021, 37, 1372-1385.	3.5	19
17	Deep-sea microbes as tools to refine the rules of innate immune pattern recognition. Science Immunology, 2021, 6, .	11.9	21
18	A pilot study of an anti-endotoxin Ig-enriched bovine colostrum to prevent experimental sepsis. Innate Immunity, 2021, 27, 266-274.	2.4	2

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19	136 Sleep and Porphyromonas gingivalis K-Capsular IgG Serotypes: A Study in the Old Order Amish. Sleep, 2021, 44, A55-A56.	1.1	0
20	Lipid A Structural Divergence in Rickettsia Pathogens. MSphere, 2021, 6, .	2.9	11
21	Transcriptomics Analysis Uncovers Transient Ceftazidime Tolerance in Burkholderia Biofilms. ACS Infectious Diseases, 2021, 7, 2324-2336.	3.8	2
22	An acquired acyltransferase promotes Klebsiella pneumoniae ST258 respiratory infection. Cell Reports, 2021, 35, 109196.	6.4	15
23	Cysteine cross-linking in native membranes establishes the transmembrane architecture of Ire1. Journal of Cell Biology, 2021, 220, .	5.2	8
24	Novel TLR4 adjuvant elicits protection against homologous and heterologous Influenza A infection. Vaccine, 2021, 39, 5205-5213.	3.8	9
25	Species-Specific Endotoxin Stimulus Determines Toll-Like Receptor 4- and Caspase 11-Mediated Pathway Activation Characteristics. MSystems, 2021, 6, e0030621.	3.8	11
26	Effect of Two Unique Nanoparticle Formulations on the Efficacy of a Broadly Protective Vaccine Against Pseudomonas Aeruginosa. Frontiers in Pharmacology, 2021, 12, 706157.	3.5	9
27	Loss of RND-Type Multidrug Efflux Pumps Triggers Iron Starvation and Lipid A Modifications in Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2021, 65, e0059221.	3.2	15
28	The Unfolded Protein Response as a Guardian of the Secretory Pathway. Cells, 2021, 10, 2965.	4.1	23
29	Benzimidazole Isosteres of Salicylanilides Are Highly Active Colistin Adjuvants. ACS Infectious Diseases, 2021, 7, 3303-3313.	3.8	3
30	Positively Charged Polyvinylidene Fluoride (PVDF) Membrane: A Potential Alternative for Absorbent Paper Points in Endodontics. Journal of Endodontics, 2021, , .	3.1	1
31	An aluminum hydroxide:CpG adjuvant enhances protection elicited by a SARS-CoV-2 receptor-binding domain vaccine in aged mice. Science Translational Medicine, 2021, , eabj5305.	12.4	4
32	Rapid identification of mcr-1-positive Escherichia coli from patient urine using a novel lipid-based MALDI-TOF-MS assay. Access Microbiology, 2021, 3, 000309.	0.5	7
33	The UDPâ€GalNAcA biosynthesis genes gnaâ€gne2 are required to maintain cell envelope integrity and in vivo fitness in multiâ€drug resistant Acinetobacter baumannii. Molecular Microbiology, 2020, 113, 153-172.	2.5	7
34	Dissociation of TRIF bias and adjuvanticity. Vaccine, 2020, 38, 4298-4308.	3.8	7
35	Host Adaptation Predisposes Pseudomonas aeruginosa to Type VI Secretion System-Mediated Predation by the Burkholderia cepacia Complex. Cell Host and Microbe, 2020, 28, 534-547.e3.	11.0	34
36	A Quantitative Analysis of Cellular Lipid Compositions During Acute Proteotoxic ER Stress Reveals Specificity in the Production of Asymmetric Lipids. Frontiers in Cell and Developmental Biology, 2020, 8, 756.	3.7	22

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37	The Efficacy of Breast Implant Irrigant Solutions: A Comparative Analysis Using an In Vitro Model. Plastic and Reconstructive Surgery, 2020, 146, 301-308.	1.4	27
38	Inactivation of AdeABC and AdeIJK efflux pumps elicits specific nonoverlapping transcriptional and phenotypic responses in Acinetobacter baumannii. Molecular Microbiology, 2020, 114, 1049-1065.	2.5	25
39	Early evolutionary loss of the lipid A modifying enzyme PagP resulting in innate immune evasion inYersinia pestis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22984-22991.	7.1	22
40	Streamlined Analysis of Cardiolipins in Prokaryotic and Eukaryotic Samples Using a Norharmane Matrix by MALDI-MSI. Journal of the American Society for Mass Spectrometry, 2020, 31, 2495-2502.	2.8	14
41	On-Tissue Derivatization of Lipopolysaccharide for Detection of Lipid A Using MALDI-MSI. Analytical Chemistry, 2020, 92, 13667-13671.	6.5	15
42	Flavin dependency undermines proteome stability, lipid metabolism and cellular proliferation during vitamin B2 deficiency. Cell Death and Disease, 2020, 11, 725.	6.3	13
43	Screening an Established Natural Product Library Identifies Secondary Metabolites That Potentiate Conventional Antibiotics. ACS Infectious Diseases, 2020, 6, 2629-2640.	3.8	21
44	Rapid microbial identification and colistin resistance detection via MALDI-TOF MS using a novel on-target extraction of membrane lipids. Scientific Reports, 2020, 10, 21536.	3.3	34
45	MGMS2: Membrane glycolipid mass spectrum simulator for polymicrobial samples. Rapid Communications in Mass Spectrometry, 2020, 34, e8824.	1.5	3
46	Synergistic Biophysical Techniques Reveal Structural Mechanisms of Engineered Cationic Antimicrobial Peptides in Lipid Model Membranes. Chemistry - A European Journal, 2020, 26, 6247-6256.	3.3	9
47	Lipidomic and biophysical homeostasis of mammalian membranes counteracts dietary lipid perturbations to maintain cellular fitness. Nature Communications, 2020, 11, 1339.	12.8	126
48	Scnn1b -Transgenic BALB/c Mice as a Model of Pseudomonas aeruginosa Infections of the Cystic Fibrosis Lung. Infection and Immunity, 2020, 88, .	2.2	6
49	Regulation of lipid saturation without sensing membrane fluidity. Nature Communications, 2020, 11, 756.	12.8	105
50	Toll-like Receptor 4-Independent Effects of Lipopolysaccharide Identified Using Longitudinal Serum Proteomics. Journal of Proteome Research, 2020, 19, 1258-1266.	3.7	8
51	Differential Interactions of Piscidins with Phospholipids and Lipopolysaccharides at Membrane Interfaces. Langmuir, 2020, 36, 5065-5077.	3.5	10
52	Antimicrobial peptide activity is anticorrelated with lipid a leaflet affinity. PLoS ONE, 2020, 15, e0242907.	2.5	4
53	Model-Based Spectral Library Approach for Bacterial Identification via Membrane Glycolipids. Analytical Chemistry, 2019, 91, 11482-11487.	6.5	14
54	Efflux Pumps of Burkholderia thailandensis Control the Permeability Barrier of the Outer Membrane. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	17

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55	Repurposing Eukaryotic Kinase Inhibitors as Colistin Adjuvants in Gram-Negative Bacteria. ACS Infectious Diseases, 2019, 5, 1764-1771.	3.8	26
56	Elastic behavior of model membranes with antimicrobial peptides depends on lipid specificity and<scp>d</scp>-enantiomers. Soft Matter, 2019, 15, 1860-1868.	2.7	21
57	Small Molecule Potentiation of Gram-Positive Selective Antibiotics against Acinetobacter baumannii. ACS Infectious Diseases, 2019, 5, 1223-1230.	3.8	20
58	Tryptamine derivatives disarm colistin resistance in polymyxin-resistant gram-negative bacteria. Bioorganic and Medicinal Chemistry, 2019, 27, 1776-1788.	3.0	25
59	Analysis of Pseudomonas aeruginosa biofilm membrane vesicles supports multiple mechanisms of biogenesis. PLoS ONE, 2019, 14, e0212275.	2.5	92
60	Pathogen Sensing: Toll-Like Receptors and NODs (Innate Immunity). , 2019, , .		1
61	Temporal proteomic profiling reveals changes that support Burkholderia biofilms. Pathogens and Disease, 2019, 77, .	2.0	9
62	Maintenance of Deep Lung Architecture and Automated Airway Segmentation for 3D Mass Spectrometry Imaging. Scientific Reports, 2019, 9, 20160.	3.3	10
63	Rapid Microbial Identification and Antibiotic Resistance Detection by Mass Spectrometric Analysis of Membrane Lipids. Analytical Chemistry, 2019, 91, 1286-1294.	6.5	39
64	A Prospective Study of Acinetobacter baumannii Complex Isolates and Colistin Susceptibility Monitoring by Mass Spectrometry of Microbial Membrane Glycolipids. Journal of Clinical Microbiology, 2019, 57, .	3.9	21
65	Genomic and Phenotypic Diversity among Ten Laboratory Isolates of Pseudomonas aeruginosa PAO1. Journal of Bacteriology, 2019, 201, .	2.2	56
66	Bacterial medium-chain 3-hydroxy fatty acid metabolites trigger immunity in Arabidopsis plants. Science, 2019, 364, 178-181.	12.6	145
67	Lipopolysaccharides from Different Burkholderia Species with Different Lipid A Structures Induce Toll-Like Receptor 4 Activation and React with Melioidosis Patient Sera. Infection and Immunity, 2019, 87, .	2.2	11
68	Top Down Tandem Mass Spectrometric Analysis of a Chemically Modified Rough-Type Lipopolysaccharide Vaccine Candidate. Journal of the American Society for Mass Spectrometry, 2018, 29, 1221-1229.	2.8	16
69	An Emerging Group of Membrane Property Sensors Controls the Physical State of Organellar Membranes to Maintain Their Identity. BioEssays, 2018, 40, e1700250.	2.5	30
70	Optimized surface acoustic wave nebulization facilitates bacterial phenotyping. International Journal of Mass Spectrometry, 2018, 427, 65-72.	1.5	13
71	Pathogen Identification Direct From Polymicrobial Specimens Using Membrane Glycolipids. Scientific Reports, 2018, 8, 15857.	3.3	18
72	Cellular mechanisms of physicochemical membrane homeostasis. Current Opinion in Cell Biology, 2018, 53, 44-51.	5.4	79

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73	Mass Spectrometry-based Structural Analysis and Systems Immunoproteomics Strategies for Deciphering the Host Response to Endotoxin. Journal of Molecular Biology, 2018, 430, 2641-2660.	4.2	21
74	The molecular recognition of phosphatidic acid by an amphipathic helix in Opi1. Journal of Cell Biology, 2018, 217, 3109-3126.	5.2	55
75	Rickettsia Lipid A Biosynthesis Utilizes the Late Acyltransferase LpxJ for Secondary Fatty Acid Addition. Journal of Bacteriology, 2018, 200, .	2.2	17
76	In Vivo Intradermal Delivery of Bacteria by Using Microneedle Arrays. Infection and Immunity, 2018, 86, .	2.2	12
77	Phylogenomics of colistin-susceptible and resistant XDR Acinetobacter baumannii. Journal of Antimicrobial Chemotherapy, 2018, 73, 2952-2959.	3.0	41
78	A lipid A-based TLR4 mimetic effectively adjuvants a Yersinia pestis rF-V1 subunit vaccine in a murine challenge model. Vaccine, 2018, 36, 4023-4031.	3.8	25
79	Comprehensive analysis of clinical Burkholderia pseudomallei isolates demonstrates conservation of unique lipid A structure and TLR4-dependent innate immune activation. PLoS Neglected Tropical Diseases, 2018, 12, e0006287.	3.0	14
80	Monophosphoryl Lipid A Enhances Efficacy of a Francisella tularensis LVS-Catanionic Nanoparticle Subunit Vaccine against F. tularensis Schu S4 Challenge by Augmenting both Humoral and Cellular Immunity. Vaccine Journal, 2017, 24, .	3.1	11
81	Lipid A structural modifications in extreme conditions and identification of unique modifying enzymes to define the Toll-like receptor 4 structure-activity relationship. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1439-1450.	2.4	43
82	Infection-derived lipids elicit an immune deficiency circuit in arthropods. Nature Communications, 2017, 8, 14401.	12.8	103
83	Rationally Designed TLR4 Ligands for Vaccine Adjuvant Discovery. MBio, 2017, 8, .	4.1	91
84	Structural Modification of Lipopolysaccharide Conferred by mcr-1 in Gram-Negative ESKAPE Pathogens. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	96
85	In Vivo Fitness Adaptations of Colistin-Resistant Acinetobacter baumannii Isolates to Oxidative Stress. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	13
86	Autopiquer - a Robust and Reliable Peak Detection Algorithm for Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 253-262.	2.8	18
87	Probing the sRNA regulatory landscape of P. aeruginosa: postâ€transcriptional control of determinants of pathogenicity and antibiotic susceptibility. Molecular Microbiology, 2017, 106, 919-937.	2.5	91
88	Structural modification of LPS in colistin-resistant, KPC-producing Klebsiella pneumoniae. Journal of Antimicrobial Chemotherapy, 2017, 72, 3035-3042.	3.0	59
89	Small molecule adjuvants that suppress both chromosomal and mcr-1 encoded colistin-resistance and amplify colistin efficacy in polymyxin-susceptible bacteria. Bioorganic and Medicinal Chemistry, 2017, 25, 5749-5753.	3.0	22
90	Structural basis of MsbA-mediated lipopolysaccharide transport. Nature, 2017, 549, 233-237.	27.8	214

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91	Identification of the ESKAPE pathogens by mass spectrometric analysis of microbial membrane glycolipids. Scientific Reports, 2017, 7, 6403.	3.3	63
92	Mass spectrometry analysis of intact Francisella bacteria identifies lipid A structure remodeling in response to acidic pH stress. Biochimie, 2017, 141, 16-20.	2.6	12
93	CXC Chemokines Exhibit Bactericidal Activity against Multidrug-Resistant Gram-Negative Pathogens. MBio, 2017, 8, .	4.1	12
94	Host-based lipid inflammation drives pathogenesis in Francisella infection. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12596-12601.	7.1	33
95	1,2,4-Triazolidine-3-thiones Have Specific Activity against Acinetobacter baumannii among Common Nosocomial Pathogens. ACS Infectious Diseases, 2017, 3, 62-71.	3.8	12
96	Bacterial lipids: powerful modifiers of the innate immune response. F1000Research, 2017, 6, 1334.	1.6	77
97	Expression level of human TLR4 rather than sequence is the key determinant of LPS responsiveness. PLoS ONE, 2017, 12, e0186308.	2.5	16
98	Modification of the 1-Phosphate Group during Biosynthesis of Capnocytophaga canimorsus Lipid A. Infection and Immunity, 2016, 84, 550-561.	2.2	18
99	Type IV pili promote early biofilm formation byClostridium difficile. Pathogens and Disease, 2016, 74, ftw061.	2.0	86
100	Global Analysis and Comparison of the Transcriptomes and Proteomes of Group A Streptococcus Biofilms. MSystems, 2016, 1, .	3.8	26
101	Norharmane matrix enhances detection of endotoxin by MALDI-MS for simultaneous profiling of pathogen, host and vector systems. Pathogens and Disease, 2016, 74, .	2.0	41
102	Structural derivation of lipid A fromCronobacter sakazakiiusing tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 2265-2270.	1.5	7
103	A Pseudomonas aeruginosa hepta-acylated lipid A variant associated with cystic fibrosis selectively activates human neutrophils. Journal of Leukocyte Biology, 2016, 100, 1047-1059.	3.3	25
104	Rapid lipid a structure determination via surface acoustic wave nebulization and hierarchical tandem mass spectrometry algorithm. Rapid Communications in Mass Spectrometry, 2016, 30, 2555-2560.	1.5	20
105	Second generation modifiers of colistin resistance show enhanced activity and lower inherent toxicity. Tetrahedron, 2016, 72, 3549-3553.	1.9	18
106	Potentiation of Francisella resistance to conventional antibiotics through small molecule adjuvants. MedChemComm, 2016, 7, 128-131.	3.4	14
107	Genotypic and phenotypic analyses of a Pseudomonas aeruginosa chronic bronchiectasis isolate reveal differences from cystic fibrosis and laboratory strains. BMC Genomics, 2015, 16, 883.	2.8	30
108	Site-specific activity of the acyltransferases HtrB1 and HtrB2 inPseudomonas aeruginosalipid A biosynthesis. Pathogens and Disease, 2015, 73, ftv053.	2.0	27

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109	The prrF -Encoded Small Regulatory RNAs Are Required for Iron Homeostasis and Virulence of Pseudomonas aeruginosa. Infection and Immunity, 2015, 83, 863-875.	2.2	79
110	Colistin-Resistant Acinetobacter baumannii: Beyond Carbapenem Resistance. Clinical Infectious Diseases, 2015, 60, 1295-1303.	5.8	315
111	Bordetella parapertussis PagP Mediates the Addition of Two Palmitates to the Lipopolysaccharide Lipid A. Journal of Bacteriology, 2015, 197, 572-580.	2.2	8
112	A PmrB-Regulated Deacetylase Required for Lipid A Modification and Polymyxin Resistance in Acinetobacter baumannii. Antimicrobial Agents and Chemotherapy, 2015, 59, 7911-7914.	3.2	47
113	Characterization of BPSS1521 (bprD), a Regulator of Burkholderia pseudomallei Virulence Gene Expression in the Mouse Model. PLoS ONE, 2014, 9, e104313.	2.5	13
114	A divergent <scp>P</scp>seudomonas aeruginosa palmitoyltransferase essential for cystic fibrosisâ€specific lipid <scp>A</scp>. Molecular Microbiology, 2014, 91, 158-174.	2.5	42
115	Guanylate binding proteins promote caspase-11â€"dependent pyroptosis in response to cytoplasmic LPS. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6046-6051.	7.1	289
116	Enzymatic Modification of Lipid A by ArnT Protects Bordetella bronchiseptica against Cationic Peptides and Is Required for Transmission. Infection and Immunity, 2014, 82, 491-499.	2.2	21
117	Noncanonical Inflammasome Activation of Caspase-4/Caspase-11 Mediates Epithelial Defenses against Enteric Bacterial Pathogens. Cell Host and Microbe, 2014, 16, 249-256.	11.0	371
118	Novel Catanionic Surfactant Vesicle Vaccines Protect against Francisella tularensis LVS and Confer Significant Partial Protection against F. tularensis Schu S4 Strain. Vaccine Journal, 2014, 21, 212-226.	3.1	22
119	Small Molecule Downregulation of PmrAB Reverses Lipid A Modification and Breaks Colistin Resistance. ACS Chemical Biology, 2014, 9, 122-127.	3.4	80
120	Mass Spectrometry Imaging Enriches Biomarker Discovery Approaches with Candidate Mapping. Health Physics, 2014, 106, 120-128.	0.5	20
121	Identification and Quantitation of Biomarkers for Radiation-induced Injury via Mass Spectrometry. Health Physics, 2014, 106, 106-119.	0.5	43
122	Cytoplasmic LPS Activates Caspase-11: Implications in TLR4-Independent Endotoxic Shock. Science, 2013, 341, 1250-1253.	12.6	1,021
123	The TLR4 antagonist Eritoran protects mice from lethal influenza infection. Nature, 2013, 497, 498-502.	27.8	382
124	Increased Long Chain acyl-Coa Synthetase Activity and Fatty Acid Import Is Linked to Membrane Synthesis for Development of Picornavirus Replication Organelles. PLoS Pathogens, 2013, 9, e1003401.	4.7	85
125	Induction of the Yersinia pestis PhoP-PhoQ Regulatory System in the Flea and Its Role in Producing a Transmissible Infection. Journal of Bacteriology, 2013, 195, 1920-1930.	2.2	54
126	Characterization of the AggR Regulon in Enteroaggregative Escherichia coli. Infection and Immunity, 2013, 81, 122-132.	2.2	107

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127	Activities of Vancomycin-Containing Regimens against Colistin-Resistant Acinetobacter baumannii Clinical Strains. Antimicrobial Agents and Chemotherapy, 2013, 57, 2103-2108.	3.2	64
128	Unique Structural Modifications Are Present in the Lipopolysaccharide from Colistin-Resistant Strains of Acinetobacter baumannii. Antimicrobial Agents and Chemotherapy, 2013, 57, 4831-4840.	3.2	159
129	Influence of Lipid A Acylation Pattern on Membrane Permeability and Innate Immune Stimulation. Marine Drugs, 2013, 11, 3197-3208.	4.6	40
130	Survey of Innate Immune Responses to Burkholderia pseudomallei in Human Blood Identifies a Central Role for Lipopolysaccharide. PLoS ONE, 2013, 8, e81617.	2.5	30
131	Humanized TLR4/MD-2 Mice Reveal LPS Recognition Differentially Impacts Susceptibility to Yersinia pestis and Salmonella enterica. PLoS Pathogens, 2012, 8, e1002963.	4.7	64
132	A Transposon Site Hybridization Screen IdentifiesgalUandwecBCas Important for Survival of Yersinia pestis in Murine Macrophages. Journal of Bacteriology, 2012, 194, 653-662.	2.2	31
133	Role of Francisella Lipid A Phosphate Modification in Virulence and Long-Term Protective Immune Responses. Infection and Immunity, 2012, 80, 943-951.	2.2	32
134	Turning up Francisella pathogenesis. Virulence, 2012, 3, 594-595.	4.4	10
135	LPS remodeling is an evolved survival strategy for bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8716-8721.	7.1	167
136	Surface Acoustic Wave Nebulization Facilitating Lipid Mass Spectrometric Analysis. Analytical Chemistry, 2012, 84, 6530-6537.	6.5	54
137	Salmonella enterica Serovar Enteritidis Core O Polysaccharide Conjugated to H:g,m Flagellin as a Candidate Vaccine for Protection against Invasive Infection withS.Enteritidis. Infection and Immunity, 2011, 79, 4240-4249.	2.2	114
138	Vanadate and triclosan synergistically induce alginate production by Pseudomonas aeruginosa strain PAO1. Molecular Microbiology, 2011, 81, 554-570.	2.5	25
139	Automated Lipid A Structure Assignment from Hierarchical Tandem Mass Spectrometry Data. Journal of the American Society for Mass Spectrometry, 2011, 22, 856-866.	2.8	26
140	A rapid oneâ€step method for the characterization of membrane lipid remodeling in Francisella using matrixâ€assisted laser desorption ionization timeâ€ofâ€flight tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 2641-2648.	1.5	14
141	Salmonellaexpressing detoxified lipopolysaccharide is immunogenic and protective both as an attenuated vaccine and for delivery of foreign antigens. Expert Review of Vaccines, 2011, 10, 1679-1682.	4.4	5
142	In Vitro Susceptibility of Burkholderia vietnamiensis to Aminoglycosides. Antimicrobial Agents and Chemotherapy, 2011, 55, 2256-2264.	3.2	39
143	Role of pagL and lpxO in Bordetella bronchiseptica Lipid A Biosynthesis. Journal of Bacteriology, 2011, 193, 4726-4735.	2.2	36
144	Evaluation of the Ability of LL-37 to Neutralise LPS In Vitro and Ex Vivo. PLoS ONE, 2011, 6, e26525.	2.5	88

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145	The Role of Pseudomonas Lipopolysaccharide in Cystic Fibrosis Airway Infection. Sub-Cellular Biochemistry, 2010, 53, 241-253.	2.4	54
146	Comprehensive structure characterization of lipid a extracted fromYersinia pestisfor determination of its phosphorylation configuration. Journal of the American Society for Mass Spectrometry, 2010, 21, 785-799.	2.8	34
147	Francisella Tularensis Blueâ€"Gray Phase Variation Involves Structural Modifications of Lipopolysaccharide O-Antigen, Core and Lipid A and Affects Intramacrophage Survival and Vaccine Efficacy. Frontiers in Microbiology, 2010, 1, 129.	3.5	26
148	Mutations of Francisella novicida that Alter the Mechanism of Its Phagocytosis by Murine Macrophages. PLoS ONE, 2010, 5, e11857.	2.5	32
149	A Straight Path to Circular Proteins. Journal of Biological Chemistry, 2009, 284, 16028-16036.	3.4	147
150	A Protein Important for Antimicrobial Peptide Resistance, YdeI/OmdA, Is in the Periplasm and Interacts with OmpD/NmpC. Journal of Bacteriology, 2009, 191, 7243-7252.	2.2	53
151	A sensitive liquid chromatography/mass spectrometryâ€based assay for quantitation of aminoâ€containing moieties in lipid A. Rapid Communications in Mass Spectrometry, 2009, 23, 433-442.	1.5	12
152	Human Toll-like receptor 4 responses toP.â€ƒgingivalisare regulated by lipid A 1- and 4â€²-phosphatase activities. Cellular Microbiology, 2009, 11, 1587-1599.	2.1	149
153	The structurally similar, penta-acylated lipopolysaccharides of Porphyromonas gingivalis and Bacteroides elicit strikingly different innate immune responses. Microbial Pathogenesis, 2009, 47, 68-77.	2.9	59
154	Role of CFTR, Pseudomonas aeruginosa and Toll-like receptors in cystic fibrosis lung inflammation. Biochemical Society Transactions, 2009, 37, 863-867.	3.4	52
155	Activation of Toll-like receptors by Burkholderia pseudomallei. BMC Immunology, 2008, 9, 46.	2.2	63
156	Pseudomonas aeruginosa activates caspase 1 through Ipaf. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2562-2567.	7.1	269
157	Acyl Chain Specificity of the Acyltransferases LpxA and LpxD and Substrate Availability Contribute to Lipid A Fatty Acid Heterogeneity in Porphyromonas gingivalis. Journal of Bacteriology, 2008, 190, 4549-4558.	2.2	32
158	A Francisella Mutant in Lipid A Carbohydrate Modification Elicits Protective Immunity. PLoS Pathogens, 2008, 4, e24.	4.7	76
159	Determination of pyrophosphorylated forms of lipid A in Gram-negative bacteria using a multivaried mass spectrometric approach. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12742-12747.	7.1	57
160	Immunostimulatory Properties of the Emerging Pathogen Stenotrophomonas maltophilia. Infection and Immunity, 2007, 75, 1698-1703.	2.2	79
161	Unique Lipid A Modifications inPseudomonas aeruginosaIsolated from the Airways of Patients with Cystic Fibrosis. Journal of Infectious Diseases, 2007, 196, 1088-1092.	4.0	98
162	Identification of an Orphan Response Regulator Required for the Virulence of Francisella spp. and Transcription of Pathogenicity Island Genes. Infection and Immunity, 2007, 75, 3305-3314.	2.2	108

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163	PmrA(Con) Confers pmrHFIJKL -Dependent EGTA and Polymyxin Resistance on msbB Salmonella by Decorating Lipid A with Phosphoethanolamine. Journal of Bacteriology, 2007, 189, 5161-5169.	2.2	27
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