

Gerald B Pier

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

235 papers	15,606 citations	69 h-index	117 g-index
317 ext. papers	17,623 ext. citations	7.4 avg, IF	6.42 L-index

#	Paper	IF	Citations
235	Lung infections associated with cystic fibrosis. <i>Clinical Microbiology Reviews</i> , 2002 , 15, 194-222	34	1158
234	Establishment of <i>Pseudomonas aeruginosa</i> infection: lessons from a versatile opportunist. <i>Microbes and Infection</i> , 2000 , 2, 1051-60	9.3	947
233	Self-Assembled Monolayers That Resist the Adsorption of Proteins and the Adhesion of Bacterial and Mammalian Cells. <i>Langmuir</i> , 2001 , 17, 6336-6343	4	516
232	Polymeric Thin Films That Resist the Adsorption of Proteins and the Adhesion of Bacteria. <i>Langmuir</i> , 2001 , 17, 1225-1233	4	324
231	Broadly protective vaccine for <i>Staphylococcus aureus</i> based on an in vivo-expressed antigen. <i>Science</i> , 1999 , 284, 1523-7	33.3	317
230	<i>Salmonella typhi</i> uses CFTR to enter intestinal epithelial cells. <i>Nature</i> , 1998 , 393, 79-82	50.4	274
229	Intraspecific diversity of <i>Yersinia pestis</i> . <i>Clinical Microbiology Reviews</i> , 2004 , 17, 434-64	34	248
228	Mucosal damage and neutropenia are required for <i>Candida albicans</i> dissemination. <i>PLoS Pathogens</i> , 2008 , 4, e35	7.6	247
227	Immunochemical properties of the staphylococcal poly-N-acetylglucosamine surface polysaccharide. <i>Infection and Immunity</i> , 2002 , 70, 4433-40	3.7	244
226	The <i>ica</i> locus of <i>Staphylococcus epidermidis</i> encodes production of the capsular polysaccharide/adhesin. <i>Infection and Immunity</i> , 1998 , 66, 4711-20	3.7	236
225	Use of confocal microscopy to analyze the rate of vancomycin penetration through <i>Staphylococcus aureus</i> biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 2467-73	5.9	233
224	The <i>pgaABCD</i> locus of <i>Acinetobacter baumannii</i> encodes the production of poly-beta-1-6-N-acetylglucosamine, which is critical for biofilm formation. <i>Journal of Bacteriology</i> , 2009 , 191, 5953-63	3.5	232
223	Isolation and characterization of a capsular polysaccharide adhesin from <i>Staphylococcus epidermidis</i> . <i>Journal of Infectious Diseases</i> , 1988 , 157, 713-22	7	229
222	Quantitative analysis of adhesion and biofilm formation on hydrophilic and hydrophobic surfaces of clinical isolates of <i>Staphylococcus epidermidis</i> . <i>Research in Microbiology</i> , 2005 , 156, 506-14	4	228
221	Pulmonary disease associated with <i>Pseudomonas aeruginosa</i> in cystic fibrosis: current status of the host-bacterium interaction. <i>Journal of Infectious Diseases</i> , 1985 , 151, 575-80	7	213
220	Exploitation of syndecan-1 shedding by <i>Pseudomonas aeruginosa</i> enhances virulence. <i>Nature</i> , 2001 , 411, 98-102	50.4	200
219	Methicillin resistance alters the biofilm phenotype and attenuates virulence in <i>Staphylococcus aureus</i> device-associated infections. <i>PLoS Pathogens</i> , 2012 , 8, e1002626	7.6	189

218	Comparative assessment of antibiotic susceptibility of coagulase-negative staphylococci in biofilm versus planktonic culture as assessed by bacterial enumeration or rapid XTT colorimetry. <i>Journal of Antimicrobial Chemotherapy</i> , 2005 , 56, 331-6	5.1	189
217	Role of alginate O acetylation in resistance of mucoid <i>Pseudomonas aeruginosa</i> to opsonic phagocytosis. <i>Infection and Immunity</i> , 2001 , 69, 1895-901	3.7	187
216	<i>Pseudomonas aeruginosa</i> lipopolysaccharide: a major virulence factor, initiator of inflammation and target for effective immunity. <i>International Journal of Medical Microbiology</i> , 2007 , 297, 277-95	3.7	155
215	Acquisition of expression of the <i>Pseudomonas aeruginosa</i> ExoU cytotoxin leads to increased bacterial virulence in a murine model of acute pneumonia and systemic spread. <i>Infection and Immunity</i> , 2000 , 68, 3998-4004	3.7	153
214	Comparative opsonic and protective activities of <i>Staphylococcus aureus</i> conjugate vaccines containing native or deacetylated <i>Staphylococcal</i> Poly-N-acetyl-beta-(1-6)-glucosamine. <i>Infection and Immunity</i> , 2005 , 73, 6752-62	3.7	152
213	Localization of cystic fibrosis transmembrane conductance regulator to lipid rafts of epithelial cells is required for <i>Pseudomonas aeruginosa</i> -induced cellular activation. <i>Journal of Immunology</i> , 2004 , 172, 418-25	5.3	147
212	Inactivation of the rhlA gene in <i>Pseudomonas aeruginosa</i> prevents rhamnolipid production, disabling the protection against polymorphonuclear leukocytes. <i>Apmis</i> , 2009 , 117, 537-46	3.4	143
211	Comparative antibody-mediated phagocytosis of <i>Staphylococcus epidermidis</i> cells grown in a biofilm or in the planktonic state. <i>Infection and Immunity</i> , 2006 , 74, 4849-55	3.7	141
210	Vaccines and immunotherapy against <i>Pseudomonas aeruginosa</i> . <i>Vaccine</i> , 2008 , 26, 1011-24	4.1	131
209	The teicoplanin-associated locus regulator (TcaR) and the intercellular adhesin locus regulator (IcaR) are transcriptional inhibitors of the ica locus in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2004 , 186, 2449-56	3.5	126
208	Opsonophagocytic killing antibody to <i>Pseudomonas aeruginosa</i> mucoid exopolysaccharide in older noncolonized patients with cystic fibrosis. <i>New England Journal of Medicine</i> , 1987 , 317, 793-8	59.2	124
207	Poly-N-acetylglucosamine production in <i>Staphylococcus aureus</i> is essential for virulence in murine models of systemic infection. <i>Infection and Immunity</i> , 2005 , 73, 6868-76	3.7	123
206	Inescapable need for neutrophils as mediators of cellular innate immunity to acute <i>Pseudomonas aeruginosa</i> pneumonia. <i>Infection and Immunity</i> , 2009 , 77, 5300-10	3.7	118
205	Temperature-dependent variations and intraspecies diversity of the structure of the lipopolysaccharide of <i>Yersinia pestis</i> . <i>Biochemistry</i> , 2005 , 44, 1731-43	3.2	118
204	CFTR is a pattern recognition molecule that extracts <i>Pseudomonas aeruginosa</i> LPS from the outer membrane into epithelial cells and activates NF-kappa B translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6907-12	11.5	118
203	Syndecan-1 shedding is enhanced by LasA, a secreted virulence factor of <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 3057-64	5.4	115
202	Intestinal Microbiota of Mice Influences Resistance to <i>Staphylococcus aureus</i> Pneumonia. <i>Infection and Immunity</i> , 2015 , 83, 4003-14	3.7	113
201	Nonmucoid <i>Pseudomonas aeruginosa</i> expresses alginate in the lungs of patients with cystic fibrosis and in a mouse model. <i>Journal of Infectious Diseases</i> , 2005 , 192, 410-9	7	113

200	A comprehensive analysis of in vitro and in vivo genetic fitness of <i>Pseudomonas aeruginosa</i> using high-throughput sequencing of transposon libraries. <i>PLoS Pathogens</i> , 2013 , 9, e1003582	7.6	112
199	Antibody to a conserved antigenic target is protective against diverse prokaryotic and eukaryotic pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2209-18	11.5	110
198	Pulmonary outcome in cystic fibrosis is influenced primarily by mucoid <i>Pseudomonas aeruginosa</i> infection and immune status and only modestly by genotype. <i>Infection and Immunity</i> , 1999 , 67, 4744-50	3.7	107
197	Immunochemical characterization of the mucoid exopolysaccharide of <i>Pseudomonas aeruginosa</i> . <i>Journal of Infectious Diseases</i> , 1983 , 147, 494-503	7	104
196	<i>Pseudomonas aeruginosa</i> -induced apoptosis is defective in respiratory epithelial cells expressing mutant cystic fibrosis transmembrane conductance regulator. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2003 , 29, 188-97	5.7	101
195	Isolation and chemical characterization of a capsular polysaccharide antigen shared by clinical isolates of <i>Enterococcus faecalis</i> and vancomycin-resistant <i>Enterococcus faecium</i> . <i>Infection and Immunity</i> , 1999 , 67, 1213-9	3.7	101
194	Evaluation of flagella and flagellin of <i>Pseudomonas aeruginosa</i> as vaccines. <i>Infection and Immunity</i> , 2010 , 78, 746-55	3.7	98
193	Host resistance to lung infection mediated by major vault protein in epithelial cells. <i>Science</i> , 2007 , 317, 130-2	33.3	98
192	Molecular basis for preferential protective efficacy of antibodies directed to the poorly acetylated form of staphylococcal poly-N-acetyl-beta-(1-6)-glucosamine. <i>Infection and Immunity</i> , 2007 , 75, 3406-13	3.7	97
191	Protection against mucoid <i>Pseudomonas aeruginosa</i> in rodent models of endobronchial infections. <i>Science</i> , 1990 , 249, 537-40	33.3	97
190	IL-17 is a critical component of vaccine-induced protection against lung infection by lipopolysaccharide-heterologous strains of <i>Pseudomonas aeruginosa</i> . <i>Journal of Immunology</i> , 2008 , 181, 4965-75	5.3	96
189	Characterization of the opsonic and protective activity against <i>Staphylococcus aureus</i> of fully human monoclonal antibodies specific for the bacterial surface polysaccharide poly-N-acetylglucosamine. <i>Infection and Immunity</i> , 2006 , 74, 2742-50	3.7	96
188	Identification of a 5-nucleotide sequence that controls expression of the <i>ica</i> locus in <i>Staphylococcus aureus</i> and characterization of the DNA-binding properties of IcaR. <i>Molecular Microbiology</i> , 2003 , 48, 889-99	4.1	93
187	Hypersusceptibility of cystic fibrosis mice to chronic <i>Pseudomonas aeruginosa</i> oropharyngeal colonization and lung infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1949-54	11.5	92
186	Conserved and variable structural features in the lipopolysaccharide of <i>Pseudomonas aeruginosa</i> . <i>Journal of Endotoxin Research</i> , 2006 , 12, 324-36		91
185	Transgenic cystic fibrosis mice exhibit reduced early clearance of <i>Pseudomonas aeruginosa</i> from the respiratory tract. <i>Journal of Immunology</i> , 2001 , 166, 7410-8	5.3	91
184	Alveolar inflammation in cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2010 , 9, 217-27	4.1	90
183	Synthetic {beta}-(1->6)-linked N-acetylated and nonacetylated oligoglucosamines used to produce conjugate vaccines for bacterial pathogens. <i>Infection and Immunity</i> , 2010 , 78, 764-72	3.7	90

182	Transcription of quorum-sensing system genes in clinical and environmental isolates of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 7222-30	3.5	89
181	Fitness cost of antibiotic susceptibility during bacterial infection. <i>Science Translational Medicine</i> , 2015 , 7, 297ra114	17.5	88
180	Isolation, structural characterization, and immunological evaluation of a high-molecular-weight exopolysaccharide from <i>Staphylococcus aureus</i> . <i>Carbohydrate Research</i> , 2003 , 338, 903-22	2.9	86
179	Enhanced in vivo fitness of carbapenem-resistant oprD mutants of <i>Pseudomonas aeruginosa</i> revealed through high-throughput sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20747-52	11.5	84
178	Human monoclonal antibodies to <i>Pseudomonas aeruginosa</i> alginate that protect against infection by both mucoid and nonmucoid strains. <i>Journal of Immunology</i> , 2004 , 173, 5671-8	5.3	83
177	Evaluation of the trimeric autotransporter Ata as a vaccine candidate against <i>Acinetobacter baumannii</i> infections. <i>Infection and Immunity</i> , 2012 , 80, 3381-8	3.7	81
176	Airway epithelial control of <i>Pseudomonas aeruginosa</i> infection in cystic fibrosis. <i>Trends in Molecular Medicine</i> , 2008 , 14, 120-33	11.5	79
175	ClpXP proteases positively regulate alginate overexpression and mucoid conversion in <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 2008 , 154, 2119-2130	2.9	78
174	Comparative Antibody-Mediated Phagocytosis of <i>Staphylococcus epidermidis</i> Cells Grown in a Biofilm or in the Planktonic State. <i>Infection and Immunity</i> , 2006 , 74, 6023-6023	3.7	78
173	Biologic properties and vaccine potential of the staphylococcal poly-N-acetyl glucosamine surface polysaccharide. <i>Vaccine</i> , 2004 , 22, 872-9	4.1	75
172	Transposon mutants of <i>Staphylococcus epidermidis</i> deficient in elaboration of capsular polysaccharide/adhesin and slime are avirulent in a rabbit model of endocarditis. <i>Journal of Infectious Diseases</i> , 1994 , 169, 1042-9	7	75
171	Wall teichoic acids are dispensable for anchoring the PNAG exopolysaccharide to the <i>Staphylococcus aureus</i> cell surface. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 865-877	2.9	74
170	Identification of Ata, a multifunctional trimeric autotransporter of <i>Acinetobacter baumannii</i> . <i>Journal of Bacteriology</i> , 2012 , 194, 3950-60	3.5	73
169	Construction and characterization of a <i>Pseudomonas aeruginosa</i> mucoid exopolysaccharide-alginate conjugate vaccine. <i>Infection and Immunity</i> , 2003 , 71, 3875-84	3.7	71
168	CFTR mutations and host susceptibility to <i>Pseudomonas aeruginosa</i> lung infection. <i>Current Opinion in Microbiology</i> , 2002 , 5, 81-6	7.9	70
167	Poly-N-acetyl-[(1-6)-glucosamine is a target for protective immunity against <i>Acinetobacter baumannii</i> infections. <i>Infection and Immunity</i> , 2012 , 80, 651-6	3.7	69
166	Prophylactic and therapeutic efficacy of antibodies to a capsular polysaccharide shared among vancomycin-sensitive and -resistant enterococci. <i>Infection and Immunity</i> , 2000 , 68, 4631-6	3.7	67
165	Protection against fatal <i>Pseudomonas aeruginosa</i> pneumonia in mice after nasal immunization with a live, attenuated aroA deletion mutant. <i>Infection and Immunity</i> , 2003 , 71, 1453-61	3.7	66

164	Identification of Poly-N-acetylglucosamine as a Major Polysaccharide Component of the <i>Bacillus subtilis</i> Biofilm Matrix. <i>Journal of Biological Chemistry</i> , 2015 , 290, 19261-72	5.4	65
163	Protection against <i>Escherichia coli</i> infection by antibody to the <i>Staphylococcus aureus</i> poly-N-acetylglucosamine surface polysaccharide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7528-33	11.5	64
162	Antibody-mediated enhancement of community-acquired methicillin-resistant <i>Staphylococcus aureus</i> infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2241-6	11.5	61
161	Resistance to <i>Pseudomonas aeruginosa</i> chronic lung infection requires cystic fibrosis transmembrane conductance regulator-modulated interleukin-1 (IL-1) release and signaling through the IL-1 receptor. <i>Infection and Immunity</i> , 2007 , 75, 1598-608	3.7	60
160	Virulence of <i>Pseudomonas aeruginosa</i> in a murine model of gastrointestinal colonization and dissemination in neutropenia. <i>Infection and Immunity</i> , 2005 , 73, 2262-72	3.7	59
159	Construction and characterization of a live, attenuated <i>aroA</i> deletion mutant of <i>Pseudomonas aeruginosa</i> as a candidate intranasal vaccine. <i>Infection and Immunity</i> , 2002 , 70, 1507-17	3.7	59
158	Intranasal immunization with heterologously expressed polysaccharide protects against multiple <i>Pseudomonas aeruginosa</i> infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 4624-9	11.5	57
157	Effects of growth in the presence of subinhibitory concentrations of dicloxacillin on <i>Staphylococcus epidermidis</i> and <i>Staphylococcus haemolyticus</i> biofilms. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8677-82	4.8	57
156	Intraspecies and temperature-dependent variations in susceptibility of <i>Yersinia pestis</i> to the bactericidal action of serum and to polymyxin B. <i>Infection and Immunity</i> , 2005 , 73, 7324-31	3.7	57
155	The role of the CFTR in susceptibility to <i>Pseudomonas aeruginosa</i> infections in cystic fibrosis. <i>Trends in Microbiology</i> , 2000 , 8, 514-20	12.4	57
154	Cystic fibrosis transmembrane conductance regulator-mediated corneal epithelial cell ingestion of <i>Pseudomonas aeruginosa</i> is a key component in the pathogenesis of experimental murine keratitis. <i>Infection and Immunity</i> , 1999 , 67, 1481-92	3.7	57
153	How mutant CFTR may contribute to <i>Pseudomonas aeruginosa</i> infection in cystic fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1996 , 154, S175-82	10.2	56
152	Inflammatory markers of lung disease in adult patients with cystic fibrosis. <i>Pediatric Pulmonology</i> , 2007 , 42, 256-62	3.5	53
151	The <i>galU</i> Gene of <i>Pseudomonas aeruginosa</i> is required for corneal infection and efficient systemic spread following pneumonia but not for infection confined to the lung. <i>Infection and Immunity</i> , 2004 , 72, 4224-32	3.7	53
150	Lack of adherence of clinical isolates of <i>Pseudomonas aeruginosa</i> to asialo-GM(1) on epithelial cells. <i>Infection and Immunity</i> , 2001 , 69, 719-29	3.7	52
149	Vaccine potential of poly-1-6 beta-D-N-succinylglucosamine, an immunoprotective surface polysaccharide of <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> . <i>Journal of Biotechnology</i> , 2000 , 83, 37-44	3.7	52
148	Cystic fibrosis transmembrane conductance regulator and caveolin-1 regulate epithelial cell internalization of <i>Pseudomonas aeruginosa</i> . <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C263-77	5.4	50
147	<i>Staphylococcus epidermidis</i> biofilms with higher proportions of dormant bacteria induce a lower activation of murine macrophages. <i>Journal of Medical Microbiology</i> , 2011 , 60, 1717-1724	3.2	49

146	High levels of antibody to panton-valentine leukocidin are not associated with resistance to Staphylococcus aureus-associated skin and soft-tissue infection. <i>Clinical Infectious Diseases</i> , 2010 , 51, 1138-46	11.6	49
145	Efficacy of a conjugate vaccine containing polymannuronic acid and flagellin against experimental Pseudomonas aeruginosa lung infection in mice. <i>Infection and Immunity</i> , 2011 , 79, 3455-64	3.7	48
144	Predictors of mucoid Pseudomonas colonization in cystic fibrosis patients. <i>Pediatric Pulmonology</i> , 2008 , 43, 463-71	3.5	48
143	Structures of the core oligosaccharide and O-units in the R- and SR-type lipopolysaccharides of reference strains of Pseudomonas aeruginosa O-serogroups. <i>FEMS Immunology and Medical Microbiology</i> , 2006 , 46, 85-99		48
142	Immunization with outer membrane vesicles displaying conserved surface polysaccharide antigen elicits broadly antimicrobial antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3106-E3115	11.5	47
141	BIIL 284 reduces neutrophil numbers but increases P. aeruginosa bacteremia and inflammation in mouse lungs. <i>Journal of Cystic Fibrosis</i> , 2014 , 13, 156-63	4.1	47
140	Synthesis of beta-(1-->6)-linked glucosamine oligosaccharides corresponding to fragments of the bacterial surface polysaccharide poly-N-acetylglucosamine. <i>Carbohydrate Research</i> , 2007 , 342, 567-75	2.9	47
139	The relationship between inhibition of bacterial adhesion to a solid surface by sub-MICs of antibiotics and subsequent development of a biofilm. <i>Research in Microbiology</i> , 2005 , 156, 650-5	4	47
138	Animal and human antibodies to distinct Staphylococcus aureus antigens mutually neutralize opsonic killing and protection in mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3220-33	15.9	46
137	Mucosal vaccination with a multivalent, live-attenuated vaccine induces multifactorial immunity against Pseudomonas aeruginosa acute lung infection. <i>Infection and Immunity</i> , 2011 , 79, 1289-99	3.7	45
136	The challenges and promises of new therapies for cystic fibrosis. <i>Journal of Experimental Medicine</i> , 2012 , 209, 1235-9	16.6	44
135	Human monoclonal antibodies against Pseudomonas aeruginosa lipopolysaccharide derived from transgenic mice containing megabase human immunoglobulin loci are opsonic and protective against fatal pseudomonas sepsis. <i>Infection and Immunity</i> , 2001 , 69, 2223-9	3.7	44
134	IL1B polymorphisms modulate cystic fibrosis lung disease. <i>Pediatric Pulmonology</i> , 2009 , 44, 580-93	3.5	43
133	Cochlin produced by follicular dendritic cells promotes antibacterial innate immunity. <i>Immunity</i> , 2013 , 38, 1063-72	32.3	42
132	Is exposure to mercury a driving force for the carriage of antibiotic resistance genes?. <i>Journal of Medical Microbiology</i> , 2010 , 59, 804-807	3.2	40
131	Caveolin-1 modifies the immunity to Pseudomonas aeruginosa. <i>Journal of Immunology</i> , 2010 , 184, 296-302	3.2	40
130	Immune-activating properties of Pantone-Valentine leukocidin improve the outcome in a model of methicillin-resistant Staphylococcus aureus pneumonia. <i>Infection and Immunity</i> , 2012 , 80, 2894-904	3.7	40
129	Promises and pitfalls of Pseudomonas aeruginosa lipopolysaccharide as a vaccine antigen. <i>Carbohydrate Research</i> , 2003 , 338, 2549-56	2.9	40

128	Structural analysis of the lipopolysaccharide core of a rough, cystic fibrosis isolate of <i>Pseudomonas aeruginosa</i> . <i>FEBS Journal</i> , 2001 , 268, 4708-19		40
127	<i>Pseudomonas aeruginosa</i> lipopolysaccharides and pathogenesis. <i>Trends in Microbiology</i> , 1996 , 4, 490-4	12.4	40
126	The role of epitope specificity in the human opsonic antibody response to the staphylococcal surface polysaccharide poly N-acetyl glucosamine. <i>Journal of Infectious Diseases</i> , 2005 , 192, 2012-9	7	39
125	Characterization of the human immune response to a polysaccharide vaccine from <i>Pseudomonas aeruginosa</i> . <i>Journal of Infectious Diseases</i> , 1983 , 148, 206-13	7	39
124	PgaB orthologues contain a glycoside hydrolase domain that cleaves deacetylated poly-(1,6)-N-acetylglucosamine and can disrupt bacterial biofilms. <i>PLoS Pathogens</i> , 2018 , 14, e1006998	7.6	38
123	Opsonic and protective properties of antibodies raised to conjugate vaccines targeting six <i>Staphylococcus aureus</i> antigens. <i>PLoS ONE</i> , 2012 , 7, e46648	3.7	37
122	Natural antibodies in normal human serum inhibit <i>Staphylococcus aureus</i> capsular polysaccharide vaccine efficacy. <i>Clinical Infectious Diseases</i> , 2012 , 55, 1188-97	11.6	37
121	Targeting pan-resistant bacteria with antibodies to a broadly conserved surface polysaccharide expressed during infection. <i>Journal of Infectious Diseases</i> , 2012 , 205, 1709-18	7	36
120	Hypoxia increases corneal cell expression of CFTR leading to increased <i>Pseudomonas aeruginosa</i> binding, internalization, and initiation of inflammation. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 4066-74		36
119	Structural studies on the core and the O-polysaccharide repeating unit of <i>Pseudomonas aeruginosa</i> immunotype 1 lipopolysaccharide. <i>FEBS Journal</i> , 2002 , 269, 2194-203		36
118	Will there ever be a universal <i>Staphylococcus aureus</i> vaccine?. <i>Human Vaccines and Immunotherapeutics</i> , 2013 , 9, 1865-76	4.4	35
117	Disruption of CFTR-dependent lipid rafts reduces bacterial levels and corneal disease in a murine model of <i>Pseudomonas aeruginosa</i> keratitis. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 1000-9		35
116	Inhibition of macrophage migration inhibitory factor ameliorates ocular <i>Pseudomonas aeruginosa</i> -induced keratitis. <i>PLoS Pathogens</i> , 2010 , 6, e1000826	7.6	34
115	Synthesis of a common trisaccharide fragment of glycoforms of the outer core region of the <i>Pseudomonas aeruginosa</i> lipopolysaccharide. <i>Tetrahedron Letters</i> , 2006 , 47, 3583-3587	2	33
114	Cold temperature-induced modifications to the composition and structure of the lipopolysaccharide of <i>Yersinia pestis</i> . <i>Carbohydrate Research</i> , 2005 , 340, 1625-30	2.9	33
113	A live-attenuated <i>Pseudomonas aeruginosa</i> vaccine elicits outer membrane protein-specific active and passive protection against corneal infection. <i>Infection and Immunity</i> , 2006 , 74, 975-83	3.7	32
112	Application of vaccine technology to prevention of <i>Pseudomonas aeruginosa</i> infections. <i>Expert Review of Vaccines</i> , 2005 , 4, 645-56	5.2	32
111	Effect of deletion of the lpxM gene on virulence and vaccine potential of <i>Yersinia pestis</i> in mice. <i>Journal of Medical Microbiology</i> , 2007 , 56, 443-453	3.2	31

110	Influence of cystic fibrosis transmembrane conductance regulator on gene expression in response to <i>Pseudomonas aeruginosa</i> infection of human bronchial epithelial cells. <i>Infection and Immunity</i> , 2005 , 73, 6822-30	3.7	31
109	Role of neutrophils, MyD88-mediated neutrophil recruitment, and complement in antibody-mediated defense against <i>Pseudomonas aeruginosa</i> keratitis 2010 , 51, 2085-93		30
108	Structure of the lipopolysaccharide of <i>Pseudomonas aeruginosa</i> O-12 with a randomly O-acetylated core region. <i>Carbohydrate Research</i> , 2003 , 338, 1895-905	2.9	30
107	The rfb locus from <i>Pseudomonas aeruginosa</i> strain PA103 promotes the expression of O antigen by both LPS-rough and LPS-smooth isolates from cystic fibrosis patients. <i>Molecular Microbiology</i> , 1994 , 13, 427-34	4.1	30
106	The pathogenic role of <i>Staphylococcus epidermidis</i> capsular polysaccharide/adhesin in a low-inoculum rabbit model of prosthetic valve endocarditis. <i>Circulation</i> , 1995 , 92, 2715-22	16.7	30
105	Structural Relationship of the Lipid A Acyl Groups to Activation of Murine Toll-Like Receptor 4 by Lipopolysaccharides from Pathogenic Strains of <i>Burkholderia mallei</i> , <i>Acinetobacter baumannii</i> , and <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Immunology</i> , 2015 , 6, 595	8.4	29
104	Complex serology and immune response of mice to variant high-molecular-weight O polysaccharides isolated from <i>Pseudomonas aeruginosa</i> serogroup O2 strains. <i>Infection and Immunity</i> , 1998 , 66, 3719-26	3.7	29
103	The exceptionally broad-based potential of active and passive vaccination targeting the conserved microbial surface polysaccharide PNAG. <i>Expert Review of Vaccines</i> , 2016 , 15, 1041-53	5.2	28
102	First synthesis of pentasaccharide glycoform I of the outer core region of the <i>Pseudomonas aeruginosa</i> lipopolysaccharide. <i>Journal of Organic Chemistry</i> , 2008 , 73, 8411-21	4.2	28
101	<i>Salmonella enterica</i> serovar typhi modulates cell surface expression of its receptor, the cystic fibrosis transmembrane conductance regulator, on the intestinal epithelium. <i>Infection and Immunity</i> , 2002 , 70, 6416-23	3.7	28
100	Relationship of the lipopolysaccharide structure of <i>Yersinia pestis</i> to resistance to antimicrobial factors. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 603, 88-96	3.6	28
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3	Vaccination of yearling horses against poly-N-acetyl glucosamine fails to protect against infection with <i>Streptococcus equi</i> subspecies <i>equi</i> 2020 , 15, e0240479		

- 2 Vaccination of yearling horses against poly-N-acetyl glucosamine fails to protect against infection with *Streptococcus equi* subspecies *equi* **2020**, 15, e0240479
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