

Yutaka Terao

List of Publications by Year in descending order

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113
papers

3,803
citations

126907

33
h-index

149698

56
g-index

117
all docs

117
docs citations

117
times ranked

4358
citing authors

#	ARTICLE	IF	CITATIONS
1	Innate lymphoid cells regulate intestinal epithelial cell glycosylation. <i>Science</i> , 2014, 345, 1254009.	12.6	450
2	Multifunctional Glyceraldehyde-3-phosphate Dehydrogenase of <i>Streptococcus pyogenes</i> Is Essential for Evasion from Neutrophils. <i>Journal of Biological Chemistry</i> , 2006, 281, 14215-14223.	3.4	162
3	Fba, a novel fibronectin-binding protein from <i>Streptococcus pyogenes</i> , promotes bacterial entry into epithelial cells, and the fba gene is positively transcribed under the Mga regulator. <i>Molecular Microbiology</i> , 2008, 42, 75-86.	2.5	159
4	Silkworm pathogenic bacteria infection model for identification of novel virulence genes. <i>Molecular Microbiology</i> , 2005, 56, 934-944.	2.5	151
5	Î±-Enolase of <i>Streptococcus pneumoniae</i> Induces Formation of Neutrophil Extracellular Traps. <i>Journal of Biological Chemistry</i> , 2012, 287, 10472-10481.	3.4	114
6	Molecular Characterization of a Novel Fibronectin-binding Protein of <i>Streptococcus pyogenes</i> Strains Isolated from Toxic Shock-like Syndrome Patients. <i>Journal of Biological Chemistry</i> , 2002, 277, 47428-47435.	3.4	113
7	Novel Laminin-Binding Protein of <i>Streptococcus pyogenes</i> , Lbp, Is Involved in Adhesion to Epithelial Cells. <i>Infection and Immunity</i> , 2002, 70, 993-997.	2.2	112
8	Group A Streptococcal Cysteine Protease Degrades C3 (C3b) and Contributes to Evasion of Innate Immunity. <i>Journal of Biological Chemistry</i> , 2008, 283, 6253-6260.	3.4	105
9	Systemic and Mucosal Immunizations with Fibronectin-Binding Protein FBP54 Induce Protective Immune Responses against <i>Streptococcus pyogenes</i> Challenge in Mice. <i>Infection and Immunity</i> , 2001, 69, 924-930.	2.2	97
10	PfbA, a Novel Plasmin- and Fibronectin-binding Protein of <i>Streptococcus pneumoniae</i> , Contributes to Fibronectin-dependent Adhesion and Antiphagocytosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 36272-36279.	3.4	91
11	Mode of Expression and Functional Characterization of FCT-3 Pilus Region-Encoded Proteins in <i>Streptococcus pyogenes</i> Serotype M49. <i>Infection and Immunity</i> , 2009, 77, 32-44.	2.2	76
12	Streptolysin S Contributes to Group A Streptococcal Translocation across an Epithelial Barrier. <i>Journal of Biological Chemistry</i> , 2011, 286, 2750-2761.	3.4	75
13	Role of <i>Streptococcus sanguinis</i> sortase A in bacterial colonization. <i>Microbes and Infection</i> , 2006, 8, 2791-2796.	1.9	70
14	Biofilm formation or internalization into epithelial cells enable <i>Streptococcus pyogenes</i> to evade antibiotic eradication in patients with pharyngitis. <i>Microbial Pathogenesis</i> , 2011, 51, 58-68.	2.9	67
15	Cysteine Proteinase from <i>Streptococcus pyogenes</i> Enables Evasion of Innate Immunity via Degradation of Complement Factors. <i>Journal of Biological Chemistry</i> , 2013, 288, 15854-15864.	3.4	59
16	Neutrophil Elastase Subverts the Immune Response by Cleaving Toll-Like Receptors and Cytokines in Pneumococcal Pneumonia. <i>Frontiers in Immunology</i> , 2018, 9, 732.	4.8	59
17	Pleiotropic virulence factor - <i>Streptococcus pyogenes</i> fibronectin-binding proteins. <i>Cellular Microbiology</i> , 2013, 15, 503-511.	2.1	56
18	Anti-biofilm and bactericidal effects of magnolia bark-derived magnolol and honokiol on <i>Streptococcus mutans</i> . <i>Microbiology and Immunology</i> , 2016, 60, 10-16.	1.4	56

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19	The Streptococcus pyogenes Capsule Is Required for Adhesion of Bacteria to Virus-Infected Alveolar Epithelial Cells and Lethal Bacterial-Viral Superinfection. Infection and Immunity, 2004, 72, 6068-6075.	2.2	51
20	Pili of oral Streptococcus sanguinis bind to salivary amylase and promote the biofilm formation. Microbial Pathogenesis, 2011, 50, 148-154.	2.9	50
21	Streptococcus pneumoniae disrupts pulmonary immune defence via elastase release following pneumolysin-dependent neutrophil lysis. Scientific Reports, 2016, 6, 38013.	3.3	50
22	Membrane-Binding Mechanism of Clostridium perfringens Alpha-Toxin. Toxins, 2015, 7, 5268-5275.	3.4	49
23	Group A Streptococcal Cysteine Protease Cleaves Epithelial Junctions and Contributes to Bacterial Translocation. Journal of Biological Chemistry, 2013, 288, 13317-13324.	3.4	46
24	<i>Fusobacterium nucleatum</i> Envelope Protein FomA Is Immunogenic and Binds to the Salivary Statherin-Derived Peptide. Infection and Immunity, 2010, 78, 1185-1192.	2.2	45
25	Involvement of T6 Pili in Biofilm Formation by Serotype M6 Streptococcus pyogenes. Journal of Bacteriology, 2012, 194, 804-812.	2.2	45
26	Protective Immunity against Streptococcus pyogenes Challenge in Mice after Immunization with Fibronectin-Binding Protein. Journal of Infectious Diseases, 2005, 192, 2081-2091.	4.0	44
27	Hydrogen Peroxide Produced by Oral Streptococci Induces Macrophage Cell Death. PLoS ONE, 2013, 8, e62563.	2.5	44
28	Pili of oral Streptococcus sanguinis bind to fibronectin and contribute to cell adhesion. Biochemical and Biophysical Research Communications, 2010, 391, 1192-1196.	2.1	42
29	Targeted Salivary Gland Immunization with Plasmid DNA Elicits Specific Salivary Immunoglobulin A and G Antibodies and Serum Immunoglobulin G Antibodies in Mice. Infection and Immunity, 1999, 67, 5863-5868.	2.2	42
30	A novel, anchorless streptococcal surface protein that binds to human immunoglobulins. Biochemical and Biophysical Research Communications, 2002, 296, 1329-1333.	2.1	38
31	Antibacterial activity of hinokitil against both antibiotic-resistant and susceptible pathogenic bacteria that predominate in the oral cavity and upper airways. Microbiology and Immunology, 2019, 63, 213-222.	1.4	38
32	Residual Structure of Streptococcus mutans Biofilm following Complete Disinfection Favors Secondary Bacterial Adhesion and Biofilm Re-Development. PLoS ONE, 2015, 10, e0116647.	2.5	38
33	Molecular analyses of glucosyltransferase genes among strains of <i>Streptococcus mutans</i> . FEMS Microbiology Letters, 1998, 161, 331-336.	1.8	36
34	Molecular cloning of novel MonA binding protein containing tetratricopeptide repeat domains. FEBS Letters, 2008, 582, 2365-2370.	2.8	34
35	Differential Expression and Roles of Secreted Frizzled-Related Protein 5 and the Wingless Homolog Wnt5a in Periodontitis. Journal of Dental Research, 2017, 96, 571-577.	5.2	34
36	Molecular and biological characterization of histidine triad protein in group A streptococci. Microbes and Infection, 2008, 10, 414-423.	1.9	31

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37	Assembly Mechanism of FCT Region Type 1 Pili in Serotype M6 Streptococcus pyogenes. Journal of Biological Chemistry, 2011, 286, 37566-37577.	3.4	30
38	Streptococcus pneumoniae Invades Erythrocytes and Utilizes Them to Evade Human Innate Immunity. PLoS ONE, 2013, 8, e77282.	2.5	30
39	The effect of chlorhexidine on dental calculus formation: an in vitro study. BMC Oral Health, 2018, 18, 52.	2.3	30
40	The Role of Neutrophils and Neutrophil Elastase in Pneumococcal Pneumonia. Frontiers in Cellular and Infection Microbiology, 2021, 11, 615959.	3.9	29
41	The Proinflammatory Cytokine IL-36 ¹³ Is a Global Discriminator of Harmless Microbes and Invasive Pathogens within Epithelial Tissues. Cell Reports, 2020, 33, 108515.	6.4	27
42	Intestinal commensal microbiota and cytokines regulate Fut2 ⁺ Paneth cells for gut defense. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	26
43	Calcineurin Potentiates the Activation of Procaspace-3 by Accelerating Its Proteolytic Maturation. Journal of Biological Chemistry, 2007, 282, 11786-11794.	3.4	25
44	Group A Streptococcus Adheres to Pharyngeal Epithelial Cells with Salivary Proline-rich Proteins via GrpE Chaperone Protein. Journal of Biological Chemistry, 2012, 287, 22266-22275.	3.4	25
45	Tetranorsesquiterpenoids and Santalane-Type Sesquiterpenoids from <i>Illicium lanceolatum</i> and Their Antimicrobial Activity against the Oral Pathogen <i>Porphyromonas gingivalis</i> . Journal of Natural Products, 2015, 78, 1466-1469.	3.0	25
46	Streptococcus sanguinis induces foam cell formation and cell death of macrophages in association with production of reactive oxygen species. FEMS Microbiology Letters, 2011, 323, 164-170.	1.8	24
47	Antimicrobial susceptibility of Streptococcus pneumoniae, Haemophilus influenzae, and Moraxella catarrhalis clinical isolates from children with acute otitis media in Japan from 2014 to 2017. Journal of Infection and Chemotherapy, 2019, 25, 229-232.	1.7	24
48	Vizantin Inhibits Endotoxin-Mediated Immune Responses via the TLR 4/MD-2 Complex. Journal of Immunology, 2014, 193, 4507-4514.	0.8	23
49	Pneumococcal DNA-binding proteins released through autolysis induce the production of proinflammatory cytokines via toll-like receptor 4. Cellular Immunology, 2018, 325, 14-22.	3.0	23
50	Penetration kinetics of four mouthrinses into Streptococcus mutans biofilms analyzed by direct time-lapse visualization. Clinical Oral Investigations, 2014, 18, 625-634.	3.0	22
51	Streptococcus pneumoniae Evades Host Cell Phagocytosis and Limits Host Mortality Through Its Cell Wall Anchoring Protein PfbA. Frontiers in Cellular and Infection Microbiology, 2019, 9, 301.	3.9	22
52	Fecal microbiota transplantation prevents <i>Candida albicans</i> from colonizing the gastrointestinal tract. Microbiology and Immunology, 2019, 63, 155-163.	1.4	22
53	Epidemiological characterization of Streptococcus pyogenes isolated from patients with multiple onsets of pharyngitis. FEMS Microbiology Letters, 2011, 318, 143-151.	1.8	21
54	Protective effect of hinokitiol against periodontal bone loss in ligature-induced experimental periodontitis in mice. Archives of Oral Biology, 2020, 112, 104679.	1.8	21

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55	The virulence factors and pathogenic mechanisms of <i>Streptococcus pyogenes</i> . <i>Journal of Oral Biosciences</i> , 2012, 54, 96-100.	2.2	20
56	Streptococcal Cysteine Protease-Mediated Cleavage of Desmogleins Is Involved in the Pathogenesis of Cutaneous Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 10.	3.9	20
57	Erythromycin inhibits neutrophilic inflammation and mucosal disease by upregulating DEL-1. <i>JCI Insight</i> , 2020, 5, .	5.0	20
58	Effect of a novel glass ionomer cement containing fluoro-zinc-silicate fillers on biofilm formation and dentin ion incorporation. <i>Clinical Oral Investigations</i> , 2020, 24, 963-970.	3.0	19
59	Systemic immunization with streptococcal immunoglobulin-binding protein Sib35 induces protective immunity against group A <i>Streptococcus</i> challenge in mice. <i>Vaccine</i> , 2005, 23, 4852-4859.	3.8	17
60	Immunization with pneumococcal elongation factor Tu enhances serotype-independent protection against <i>Streptococcus pneumoniae</i> infection. <i>Vaccine</i> , 2019, 37, 160-168.	3.8	17
61	Osteoimmunology in Periodontitis: Local Proteins and Compounds to Alleviate Periodontitis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5540.	4.1	17
62	S-Carboxymethylcysteine inhibits adherence of <i>Streptococcus pneumoniae</i> to human alveolar epithelial cells. <i>Journal of Medical Microbiology</i> , 2012, 61, 101-108.	1.8	16
63	<i>Clostridium perfringens</i> Alpha-Toxin Induces Gm1a Clustering and Trka Phosphorylation in the Host Cell Membrane. <i>PLoS ONE</i> , 2015, 10, e0120497.	2.5	16
64	Mechanism of Macrolide-Induced Inhibition of Pneumolysin Release Involves Impairment of Autolysin Release in Macrolide-Resistant <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	15
65	<i>Aggregatibacter actinomycetemcomitans</i> induces detachment and death of human gingival epithelial cells and fibroblasts via elastase release following leukotoxinâ€dependent neutrophil lysis. <i>Microbiology and Immunology</i> , 2019, 63, 100-110.	1.4	15
66	Peptides from rice endosperm protein restrain periodontal bone loss in mouse model of periodontitis. <i>Archives of Oral Biology</i> , 2019, 98, 132-139.	1.8	15
67	Long-term survival of salivary streptococci on dental devices made of ethylene vinyl acetate. <i>International Journal of Oral Science</i> , 2012, 4, 14-18.	8.6	14
68	<i>Streptococcus pyogenes</i> CAMP factor attenuates phagocytic activity of RAW 264.7 cells. <i>Microbes and Infection</i> , 2016, 18, 118-127.	1.9	14
69	Oral-Nasopharyngeal Dendritic Cells Mediate T Cell-Independent IgA Class Switching on B-1 B Cells. <i>PLoS ONE</i> , 2011, 6, e25396.	2.5	13
70	Inflammatory Immune Responses by Water-insoluble Î±-glucans. <i>Journal of Dental Research</i> , 2007, 86, 242-248.	5.2	12
71	A novel streptococcal leucine zipper protein (Lzp) binds to human immunoglobulins. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 1128-1134.	2.1	12
72	<i>Streptococcus pyogenes</i> CAMP factor promotes bacterial adhesion and invasion in pharyngeal epithelial cells without serum via PI3K/Akt signaling pathway. <i>Microbes and Infection</i> , 2018, 20, 9-18.	1.9	12

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73	Measurement of the Intestinal pH in Mice under Various Conditions Reveals Alkalization Induced by Antibiotics. <i>Antibiotics</i> , 2021, 10, 180.	3.7	12
74	Poor survival of Methicillin-resistant <i>Staphylococcus aureus</i> on inanimate objects in the public spaces. <i>MicrobiologyOpen</i> , 2016, 5, 39-46.	3.0	11
75	Repeated human deciduous tooth-derived dental pulp cell reprogramming factor transfection yields multipotent intermediate cells with enhanced iPS cell formation capability. <i>Scientific Reports</i> , 2019, 9, 1490.	3.3	11
76	Neutrophil elastase aggravates periodontitis by disrupting gingival epithelial barrier via cleaving cell adhesion molecules. <i>Scientific Reports</i> , 2022, 12, 8159.	3.3	11
77	Molecular and biological characterization of <i>gtf</i> regulation-associated genes in <i>Streptococcus mutans</i> . <i>Oral Microbiology and Immunology</i> , 2009, 24, 211-217.	2.8	10
78	Nrc of <i>Streptococcus pneumoniae</i> suppresses capsule expression and enhances anti-phagocytosis. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 155-160.	2.1	10
79	Mucosal immune features to phosphorylcholine by nasal Flt3 ligand cDNA-based vaccination. <i>Vaccine</i> , 2011, 29, 5747-5757.	3.8	10
80	Clarithromycin Inhibits Pneumolysin Production via Downregulation of <i>ply</i> Gene Transcription despite Autolysis Activation. <i>Microbiology Spectrum</i> , 2021, 9, e0031821.	3.0	10
81	Proteolytic cleavage of HLA class II by human neutrophil elastase in pneumococcal pneumonia. <i>Scientific Reports</i> , 2021, 11, 2432.	3.3	10
82	Analysis of Experimental Ligature-Induced Periodontitis Model in Mice. <i>Methods in Molecular Biology</i> , 2021, 2210, 237-250.	0.9	10
83	Vizantin inhibits bacterial adhesion without affecting bacterial growth and causes <i>Streptococcus mutans</i> biofilm to detach by altering its internal architecture. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 173-179.	2.1	9
84	Effects of Erythromycin on Osteoclasts and Bone Resorption via DEL-1 Induction in Mice. <i>Antibiotics</i> , 2021, 10, 312.	3.7	9
85	Treatment of severe pneumonia by hinokitiol in a murine antimicrobial-resistant pneumococcal pneumonia model. <i>PLoS ONE</i> , 2020, 15, e0240329.	2.5	9
86	Novel Epitopic Region of Glucosyltransferase B from <i>Streptococcus mutans</i> . <i>Vaccine Journal</i> , 2011, 18, 1552-1561.	3.1	8
87	<i>Streptococcus pyogenes</i> Phospholipase A2 Induces the Expression of Adhesion Molecules on Human Umbilical Vein Endothelial Cells and Aorta of Mice. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 300.	3.9	8
88	A peptide derived from rice inhibits alveolar bone resorption via suppression of inflammatory cytokine production. <i>Journal of Periodontology</i> , 2019, 90, 1160-1169.	3.4	8
89	Streptococcal immunoglobulin-binding protein Sib35 exerts stimulatory and mitogenic effects toward mouse B lymphocytes. <i>FEMS Microbiology Letters</i> , 2008, 281, 73-80.	1.8	7
90	Chemical Hybridization of Vizantin and Lipid A to Generate a Novel LPS Antagonist. <i>Chemical and Pharmaceutical Bulletin</i> , 2016, 64, 246-257.	1.3	7

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91	Sulfated vizantin induces formation of macrophage extracellular traps. <i>Microbiology and Immunology</i> , 2018, 62, 310-316.	1.4	7
92	Innate Immune Responses in Serum and Cerebrospinal Fluid From Neonates and Infants Infected With Parechovirus-A3 or Enteroviruses. <i>Journal of Infectious Diseases</i> , 2020, 222, 681-689.	4.0	7
93	Rice peptide with amino acid substitution inhibits biofilm formation by <i>Porphyromonas gingivalis</i> and <i>Fusobacterium nucleatum</i> . <i>Archives of Oral Biology</i> , 2021, 121, 104956.	1.8	7
94	Effects of a sub-minimum inhibitory concentration of chlorhexidine gluconate on the development of <i>in vitro</i> multi-species biofilms. <i>Biofouling</i> , 2020, 36, 146-158.	2.2	6
95	STO Feeder Cells Are Useful for Propagation of Primarily Cultured Human Deciduous Dental Pulp Cells by Eliminating Contaminating Bacteria and Promoting Cellular Outgrowth. <i>Cell Medicine</i> , 2013, 6, 75-81.	5.0	5
96	Isolation and characterization of lymphoid enhancer factor-1-positive deciduous dental pulp stem-like cells after transfection with a piggyBac vector containing LEF1 promoter-driven selection markers. <i>Archives of Oral Biology</i> , 2017, 81, 110-120.	1.8	5
97	Antimicrobial activity of ethylene-vinyl acetate containing bioactive filler against oral bacteria. <i>Dental Materials Journal</i> , 2017, 36, 784-790.	1.8	5
98	Triosephosphate isomerase of <i>Streptococcus pneumoniae</i> is released extracellularly by autolysis and binds to host plasminogen to promote its activation. <i>FEBS Open Bio</i> , 2022, 12, 1206-1219.	2.3	5
99	A Horizontal Sequential Cutting Method to Estimate the Effectiveness of Dentin Disinfection by Using Confocal Laser Scanning Microscopy. <i>Journal of Endodontics</i> , 2019, 45, 1142-1147.	3.1	4
100	Sulfated vizantin causes detachment of biofilms composed mainly of the genus <i>Streptococcus</i> without affecting bacterial growth and viability. <i>BMC Microbiology</i> , 2020, 20, 361.	3.3	2
101	Adjunct use of mouth rinses with a sonic toothbrush accelerates the detachment of a <i>Streptococcus mutans</i> biofilm: an <i>in vitro</i> study. <i>BMC Oral Health</i> , 2020, 20, 161.	2.3	2
102	Sulfated vizantin inhibits biofilm maturation by <i>Streptococcus mutans</i> . <i>Microbiology and Immunology</i> , 2020, 64, 493-501.	1.4	2
103	Possible Mechanisms Related to Development of Severe <i>Streptococcus pyogenes</i> Infection. <i>Journal of Oral Biosciences</i> , 2008, 50, 89-97.	2.2	1
104	MicroRNA fragments derived from <i>Streptococcus pyogenes</i> enable activation of neutrophil phagocytosis: <i>in vitro</i> study. <i>Microbes and Infection</i> , 2013, 15, 212-218.	1.9	1
105	Neonatal pleural empyema caused by <i>emm</i> type 6 group <i>A</i> streptococcus. <i>Pediatrics International</i> , 2013, 55, 519-521.	0.5	1
106	Adverse Influences of Antimicrobial Strategy against Mature Oral Biofilm. , 0, , .		1
107	<i>Streptococcus pyogenes</i> CAMP factor promotes calcium ion uptake in RAW264.7 cells. <i>Microbiology and Immunology</i> , 2018, 62, 617-623.	1.4	1
108	Matcha Green Tea Exhibits Bactericidal Activity against <i>Streptococcus pneumoniae</i> and Inhibits Functional Pneumolysin. <i>Antibiotics</i> , 2021, 10, 1550.	3.7	1

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109	2853. Innate Immune Response in Serum and Cerebrospinal Fluid of Neonates and Infants Infected with Parechovirus-A3 and Enteroviruses. <i>Open Forum Infectious Diseases</i> , 2019, 6, S74-S74.	0.9	0
110	Evaluation of the penetration ability and antimicrobial efficacy of Listerine [®] Natural Care against <i>Streptococcus mutans</i> biofilms. <i>Journal of Japanese Society of Periodontology</i> , 2014, 56, 291-301.	0.1	0
111	Water-insoluble β -glucans from <i>Streptococcus sobrinus</i> induce inflammatory immune responses. , 2007, , 243-247.		0
112	Possible Mechanisms Related to Development of Severe <i>Streptococcus pyogenes</i> Infection. <i>Journal of Oral Biosciences</i> , 2008, 50, 89-97.	2.2	0
113	Unique symbiont-derived sphingolipids: Dietary amino acids source branch formation. <i>Cell Host and Microbe</i> , 2022, 30, 3-5.	11.0	0