George Hajishengallis

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214 papers	19,205 citations	67 h-index	135 g-index
245 ext. papers	23,787 ext. citations	9.1 avg, IF	7.79 L-index

#	Paper	IF	Citations
214	Complement: a key system for immune surveillance and homeostasis. *Nature Immunology*, **2010**, 11, 785-97	19.1	2328
213	Periodontitis: from microbial immune subversion to systemic inflammation. *Nature Reviews Immunology*, **2015**, 15, 30-44	36.5	1143
212	The keystone-pathogen hypothesis. *Nature Reviews Microbiology*, **2012**, 10, 717-25	22.2	917
211	Low-abundance biofilm species orchestrates inflammatory periodontal disease through the commensal microbiota and complement. *Cell Host and Microbe*, **2011**, 10, 497-506	23.4	699
210	Beyond the red complex and into more complexity: the polymicrobial synergy and dysbiosis (PSD) model of periodontal disease etiology. *Molecular Oral Microbiology*, **2012**, 27, 409-19	4.6	625
209	The oral microbiota: dynamic communities and host interactions. *Nature Reviews Microbiology*, **2018** , 16, 745-759	22.2	572
208	Immunomicrobial pathogenesis of periodontitis: keystones, pathobionts, and host response. *Trends in Immunology*, **2014**, 35, 3-11	14.4	535
207	Modulation of Myelopoiesis Progenitors Is an Integral Component of Trained Immunity. *Cell*, **2018**, 172, 147-161.e12	56.2	417
206	TLR-signaling networks: an integration of adaptor molecules, kinases, and cross-talk. *Journal of Dental Research*, **2011**, 90, 417-27	8.1	386
205	Polymicrobial synergy and dysbiosis in inflammatory disease. *Trends in Molecular Medicine*, **2015**, 21, 172-83	11.5	290
204	The leukocyte integrin antagonist Del-1 inhibits IL-17-mediated inflammatory bone loss. *Nature Immunology*, **2012**, 13, 465-73	19.1	290
203	Porphyromonas gingivalis as a potential community activist for disease. *Journal of Dental Research*, **2012**, 91, 816-20	8.1	275
202	The use of rodent models to investigate host-bacteria interactions related to periodontal diseases. *Journal of Clinical Periodontology*, **2008**, 35, 89-105	7.7	261
201	A new inflammatory cytokine on the block: re-thinking periodontal disease and the Th1/Th2 paradigm in the context of Th17 cells and IL-17. *Journal of Dental Research*, **2008**, 87, 817-28	8.1	261
200	Novel mechanisms and functions of complement. *Nature Immunology*, **2017**, 18, 1288-1298	19.1	243
199	Optimization of the ligature-induced periodontitis model in mice. *Journal of Immunological Methods* , **2013**, 394, 49-54	2.5	226
198	Porphyromonas gingivalis manipulates complement and TLR signaling to uncouple bacterial clearance from inflammation and promote dysbiosis. *Cell Host and Microbe*, **2014**, 15, 768-78	23.4	225

197	Microbial manipulation of receptor crosstalk in innate immunity. *Nature Reviews Immunology*, **2011**, 11, 187-200	36.5	213
196	Crosstalk pathways between Toll-like receptors and the complement system. *Trends in Immunology*, **2010**, 31, 154-63	14.4	200
195	Breaking bad: manipulation of the host response by Porphyromonas gingivalis. *European Journal of Immunology*, **2014**, 44, 328-38	6.1	197
194	The inflammophilic character of the periodontitis-associated microbiota. *Molecular Oral Microbiology*, **2014**, 29, 248-57	4.6	196
193	Defective neutrophil recruitment in leukocyte adhesion deficiency type I disease causes local IL-17-driven inflammatory bone loss. *Science Translational Medicine*, **2014**, 6, 229ra40	17.5	178
192	A dysbiotic microbiome triggers T17 cells to mediate oral mucosal immunopathology in mice and humans. *Science Translational Medicine*, **2018**, 10,	17.5	166
191	Dancing with the Stars: How Choreographed Bacterial Interactions Dictate Nososymbiocity and Give Rise to Keystone Pathogens, Accessory Pathogens, and Pathobionts. *Trends in Microbiology*, **2016**, 24, 477-489	12.4	162
190	Leukocyte integrins: role in leukocyte recruitment and as therapeutic targets in inflammatory disease. *Pharmacology & Therapeutics*, **2015**, 147, 123-135	13.9	158
189	Basic biology and role of interleukin-17 in immunity and inflammation. *Periodontology 2000*, **2015**, 69, 142-59	12.9	157
188	Microbial hijacking of complement-toll-like receptor crosstalk. *Science Signaling*, **2010**, 3, ra11	8.8	151
187	Pathogen induction of CXCR4/TLR2 cross-talk impairs host defense function. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 13532-7	11.5	142
186	Differential interactions of fimbriae and lipopolysaccharide from Porphyromonas gingivalis with the Toll-like receptor 2-centred pattern recognition apparatus. *Cellular Microbiology*, **2006**, 8, 1557-70	3.9	139
185	Compstatin: a C3-targeted complement inhibitor reaching its prime for bedside intervention. *European Journal of Clinical Investigation*, **2015**, 45, 423-40	4.6	138
184	Fimbrial proteins of porphyromonas gingivalis mediate in vivo virulence and exploit TLR2 and complement receptor 3 to persist in macrophages. *Journal of Immunology*, **2007**, 179, 2349-58	5.3	138
183	New insights into the immune functions of complement. *Nature Reviews Immunology*, **2019**, 19, 503-516	36.5	131
182	The C5a receptor impairs IL-12-dependent clearance of Porphyromonas gingivalis and is required for induction of periodontal bone loss. *Journal of Immunology*, **2011**, 186, 869-77	5.3	128
181	Lipopolysaccharides from atherosclerosis-associated bacteria antagonize TLR4, induce formation of TLR2/1/CD36 complexes in lipid rafts and trigger TLR2-induced inflammatory responses in human vascular endothelial cells. *Cellular Microbiology*, **2007**, 9, 2030-9	3.9	123
180	Porphyromonas gingivalis-host interactions: open war or intelligent guerilla tactics?. *Microbes and Infection*, **2009**, 11, 637-45	9.3	119

179	Local and systemic mechanisms linking periodontal disease and inflammatory comorbidities. *Nature Reviews Immunology*, **2021**, 21, 426-440	36.5	117
178	Mucosal immunization with a bacterial protein antigen genetically coupled to cholera toxin A2/B subunits. *Journal of Immunology*, **1995**, 154, 4322-32	5.3	116
177	Inhibition of Streptococcus mutans adherence to saliva-coated hydroxyapatite by human secretory immunoglobulin A (S-IgA) antibodies to cell surface protein antigen I/II: reversal by IgA1 protease cleavage. *Infection and Immunity*, **1992**, 60, 5057-64	3.7	109
176	TLR2 transmodulates monocyte adhesion and transmigration via Rac1- and PI3K-mediated inside-out signaling in response to Porphyromonas gingivalis fimbriae. *Journal of Immunology*, **2006** , 176, 7645-56	5.3	105
175	A self-sustained loop of inflammation-driven inhibition of beige adipogenesis in obesity. *Nature Immunology*, **2017**, 18, 654-664	19.1	104
174	Neutrophil homeostasis and periodontal health in children and adults. *Journal of Dental Research*, **2014**, 93, 231-7	8.1	100
173	Hematopoietic progenitor cells as integrative hubs for adaptation to and fine-tuning of inflammation. *Nature Immunology*, **2019**, 20, 802-811	19.1	93
172	DEL-1 promotes macrophage efferocytosis and clearance of inflammation. *Nature Immunology*, **2019**, 20, 40-49	19.1	93
171	Too old to fight? Aging and its toll on innate immunity. *Molecular Oral Microbiology*, **2010**, 25, 25-37	4.6	90
170	Local complement-targeted intervention in periodontitis: proof-of-concept using a C5a receptor (CD88) antagonist. *Journal of Immunology*, **2012**, 189, 5442-8	5.3	90
169	Complement receptor 3 blockade promotes IL-12-mediated clearance of Porphyromonas gingivalis and negates its virulence in vivo. *Journal of Immunology*, **2007**, 179, 2359-67	5.3	90
168	Revisiting the Page & Schroeder model: the good, the bad and the unknowns in the periodontal host response 40 years later. *Periodontology 2000*, **2017**, 75, 116-151	12.9	89
167	Secretory immunity in defense against cariogenic mutans streptococci. *Caries Research*, **1999**, 33, 4-15	4.2	89
166	Integrin activation by bacterial fimbriae through a pathway involving CD14, Toll-like receptor 2, and phosphatidylinositol-3-kinase. *European Journal of Immunology*, **2005**, 35, 1201-10	6.1	86
165	Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity. *Cell*, **2020**, 183, 771-785.e12	56.2	86
164	Interleukin-12 and Interleukin-23 Blockade in Leukocyte Adhesion Deficiency Type 1. *New England Journal of Medicine*, **2017**, 376, 1141-1146	59.2	84
163	Affinity and specificity of the interactions between Streptococcus mutans antigen I/II and salivary components. *Journal of Dental Research*, **1994**, 73, 1493-502	8.1	84
162	Endogenous modulators of inflammatory cell recruitment. *Trends in Immunology*, **2013**, 34, 1-6	14.4	83

161	Porphyromonas gingivalis virulence factors involved in subversion of leukocytes and microbial dysbiosis. *Virulence*, **2015**, 6, 236-43	4.7	79
160	Antagonistic effects of IL-17 and D-resolvins on endothelial Del-1 expression through a GSK-3EC/EBPpathway. *Nature Communications*, **2015**, 6, 8272	17.4	77
159	More than complementing Tolls: complement-Toll-like receptor synergy and crosstalk in innate immunity and inflammation. *Immunological Reviews*, **2016**, 274, 233-244	11.3	76
158	Genetic and intervention studies implicating complement C3 as a major target for the treatment of periodontitis. *Journal of Immunology*, **2014**, 192, 6020-7	5.3	76
157	Intracellular signaling and cytokine induction upon interactions of Porphyromonas gingivalis fimbriae with pattern-recognition receptors. *Immunological Investigations*, **2004**, 33, 157-72	2.9	76
156	Immune Evasion Strategies of Porphyromonas gingivalis. *Journal of Oral Biosciences*, **2011**, 53, 233-240	2.5	75
155	Porphyromonas gingivalis fimbriae proactively modulate beta2 integrin adhesive activity and promote binding to and internalization by macrophages. *Infection and Immunity*, **2006**, 74, 5658-66	3.7	75
154	Topical treatment with probiotic Lactobacillus brevis CD2 inhibits experimental periodontal inflammation and bone loss. *Journal of Periodontal Research*, **2014**, 49, 785-91	4.3	73
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151	Complement and dysbiosis in periodontal disease. *Immunobiology*, **2012**, 217, 1111-6	3.4	70
150	Counteracting interactions between lipopolysaccharide molecules with differential activation of toll-like receptors. *Infection and Immunity*, **2002**, 70, 6658-64	3.7	70
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147	Neutrophil homeostasis and inflammation: novel paradigms from studying periodontitis. *Journal of Leukocyte Biology*, **2015**, 98, 539-48	6.5	66
146	Complement and periodontitis. *Biochemical Pharmacology*, **2010**, 80, 1992-2001	6	66
145	Toll-like receptor 2 mediates cellular activation by the B subunits of type II heat-labile enterotoxins. *Infection and Immunity*, **2005**, 73, 1343-9	3.7	65
144	Immune and regulatory functions of neutrophils in inflammatory bone loss. *Seminars in Immunology* , **2016**, 28, 146-58	10.7	64

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142	Effectiveness of liposomes possessing surface-linked recombinant B subunit of cholera toxin as an oral antigen delivery system. *Infection and Immunity*, **1998**, 66, 4299-304	3.7	64
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140	Current status of a mucosal vaccine against dental caries. *Oral Microbiology and Immunology*, **1999**, 14, 1-20		62
139	disturbs host-commensal homeostasis by changing complement function. *Journal of Oral Microbiology*, **2017**, 9, 1340085	6.3	61
138	Immunometabolic Crosstalk: An Ancestral Principle of Trained Immunity?. *Trends in Immunology*, **2019**, 40, 1-11	14.4	61
137	Aging and its Impact on Innate Immunity and Inflammation: Implications for Periodontitis. *Journal of Oral Biosciences*, **2014**, 56, 30-37	2.5	60
136	Lipid raft-dependent uptake, signalling and intracellular fate of Porphyromonas gingivalis in mouse macrophages. *Cellular Microbiology*, **2008**, 10, 2029-42	3.9	59
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134	Periodontal inflammation and bone loss in aged mice. *Journal of Periodontal Research*, **2010**, 45, 574-8	4.3	57
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132	DEL-1 restrains osteoclastogenesis and inhibits inflammatory bone loss in nonhuman primates. *Science Translational Medicine*, **2015**, 7, 307ra155	17.5	56
131	Role of complement in host-microbe homeostasis of the periodontium. *Seminars in Immunology*, **2013**, 25, 65-72	10.7	55
130	Secreted protein Del-1 regulates myelopoiesis in the hematopoietic stem cell niche. *Journal of Clinical Investigation*, **2017**, 127, 3624-3639	15.9	55
129	Phagocytosis of Apoptotic Cells in Resolution of Inflammation. *Frontiers in Immunology*, **2020**, 11, 553	8.4	54
128	Current understanding of periodontal disease pathogenesis and targets for host-modulation therapy. *Periodontology 2000*, **2020**, 84, 14-34	12.9	54
127	Complementary Tolls in the periodontium: how periodontal bacteria modify complement and Toll-like receptor responses to prevail in the host. *Periodontology 2000*, **2010**, 52, 141-62	12.9	53
126	Age-related alterations in innate immune receptor expression and ability of macrophages to respond to pathogen challenge in vitro. *Mechanisms of Ageing and Development*, **2009**, 130, 538-46	5.6	53

125	Immunomodulation with enterotoxins for the generation of secretory immunity or tolerance: applications for oral infections. *Journal of Dental Research*, **2005**, 84, 1104-16	8.1	51
124	Novel inflammatory pathways in periodontitis. *Advances in Dental Research*, **2014**, 26, 23-9	2.3	50
123	Toll-like receptor 2-mediated interleukin-8 expression in gingival epithelial cells by the Tannerella forsythia leucine-rich repeat protein BspA. *Infection and Immunity*, **2008**, 76, 198-205	3.7	50
122	Enhanced immunogenicity of a genetic chimeric protein consisting of two virulence antigens of Streptococcus mutans and protection against infection. *Infection and Immunity*, **2002**, 70, 6779-87	3.7	50
121	Inhibition of proinflammatory activities of major periodontal pathogens by aqueous extracts from elder flower (Sambucus nigra). *Journal of Periodontology*, **2006**, 77, 271-9	4.6	49
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119	Developmental endothelial locus-1 is a homeostatic factor in the central nervous system limiting neuroinflammation and demyelination. *Molecular Psychiatry*, **2015**, 20, 880-888	15.1	48
118	Immune evasion strategies of Porphyromonas gingivalis. *Journal of Oral Biosciences*, **2011**, 53, 233-240	2.5	47
117	Dependence of bacterial protein adhesins on toll-like receptors for proinflammatory cytokine induction. *Vaccine Journal*, **2002**, 9, 403-11		45
116	Mucosal immunogenicity of a recombinant Salmonella typhimurium-cloned heterologous antigen in the absence or presence of coexpressed cholera toxin A2 and B subunits. *Infection and Immunity*, **1997**, 65, 1445-54	3.7	45
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114	New developments in neutrophil biology and periodontitis. *Periodontology 2000*, **2020**, 82, 78-92	12.9	44
113	The B Cell-Stimulatory Cytokines BLyS and APRIL Are Elevated in Human Periodontitis and Are Required for B Cell-Dependent Bone Loss in Experimental Murine Periodontitis. *Journal of Immunology*, **2015**, 195, 1427-35	5.3	43
112	Inhibition of pre-existing natural periodontitis in non-human primates by a locally administered peptide inhibitor of complement C3. *Journal of Clinical Periodontology*, **2016**, 43, 238-49	7.7	42
111	Myelopoiesis in the Context of Innate Immunity. *Journal of Innate Immunity*, **2018**, 10, 365-372	6.9	40
110	The enduring importance of animal models in understanding periodontal disease. *Virulence*, **2015**, 6, 229-35	4.7	40
109	Heat-labile enterotoxins as adjuvants or anti-inflammatory agents. *Immunological Investigations*, **2010**, 39, 449-67	2.9	40
108	Ganglioside GD1a is an essential coreceptor for Toll-like receptor 2 signaling in response to the B subunit of type IIb enterotoxin. *Journal of Biological Chemistry*, **2007**, 282, 7532-42	5.4	40

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106	Pathogenic microbes and community service through manipulation of innate immunity. *Advances in Experimental Medicine and Biology*, **2012**, 946, 69-85	3.6	38
105	The Type II heat-labile enterotoxins LT-IIa and LT-IIb and their respective B pentamers differentially induce and regulate cytokine production in human monocytic cells. *Infection and Immunity*, **2004**, 72, 6351-8	3.7	38
104	Protective immunity against Streptococcus mutans infection in mice after intranasal immunization with the glucan-binding region of S. mutans glucosyltransferase. *Infection and Immunity*, **1999**, 67, 6543-9	3.7	38
103	Polymicrobial communities in periodontal disease: Their quasi-organismal nature and dialogue with the host. *Periodontology 2000*, **2021**, 86, 210-230	12.9	38
102	Complement Involvement in Periodontitis: Molecular Mechanisms and Rational Therapeutic Approaches. *Advances in Experimental Medicine and Biology*, **2015**, 865, 57-74	3.6	36
101	Stimulates TLR2-PI3K Signaling to Escape Immune Clearance and Induce Bone Resorption Independently of MyD88. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 359	5.9	36
100	Regulation of osteoclast homeostasis and inflammatory bone loss by MFG-E8. *Journal of Immunology*, **2014**, 193, 1383-91	5.3	36
99	Complement inhibition in pre-clinical models of periodontitis and prospects for clinical application. *Seminars in Immunology*, **2016**, 28, 285-91	10.7	36
98	Developmental endothelial locus-1 attenuates complement-dependent phagocytosis through inhibition of Mac-1-integrin. *Thrombosis and Haemostasis*, **2014**, 111, 1004-6	7	35
97	Mapping of a microbial protein domain involved in binding and activation of the TLR2/TLR1 heterodimer. *Journal of Immunology*, **2009**, 182, 2978-85	5.3	35
96	Subversion of innate immunity by periodontopathic bacteria via exploitation of complement receptor-3. *Advances in Experimental Medicine and Biology*, **2008**, 632, 203-19	3.6	35
95	Human oral mucosa cell atlas reveals a stromal-neutrophil axis regulating tissue immunity. *Cell*, **2021**, 184, 4090-4104.e15	56.2	34
94	Toll-Like Receptor 9-Mediated Inflammation Triggers Alveolar Bone Loss in Experimental Murine Periodontitis. *Infection and Immunity*, **2015**, 83, 2992-3002	3.7	33
93	Porphyromonas gingivalis interactions with complement receptor 3 (CR3): innate immunity or immune evasion?. *Frontiers in Bioscience - Landmark*, **2007**, 12, 4547-57	2.8	32
92	Functional and immunogenic characterization of two cloned regions of Streptococcus mutans glucosyltransferase I. *Infection and Immunity*, **1999**, 67, 810-6	3.7	32
91	Complement-Dependent Mechanisms and Interventions in Periodontal Disease. *Frontiers in Immunology*, **2019**, 10, 406	8.4	31
90	In vivo and in vitro adjuvant activities of the B subunit of Type IIb heat-labile enterotoxin (LT-IIb-B5) from Escherichia coli. *Vaccine*, **2009**, 27, 4302-8	4.1	31

89	Persistence of serum and salivary antibody responses after oral immunization with a bacterial protein antigen genetically linked to the A2/B subunits of cholera toxin. *Infection and Immunity*, **1996**, 64, 665-7	3.7	31
88	Complement therapeutics in inflammatory diseases: promising drug candidates for C3-targeted intervention. *Molecular Oral Microbiology*, **2016**, 31, 3-17	4.6	30
87	Host adhesive activities and virulence of novel fimbrial proteins of Porphyromonas gingivalis. *Infection and Immunity*, **2009**, 77, 3294-301	3.7	29
86	The A subunit of type IIb enterotoxin (LT-IIb) suppresses the proinflammatory potential of the B subunit and its ability to recruit and interact with TLR2. *Journal of Immunology*, **2007**, 178, 4811-9	5.3	29
85	Developmental endothelial locus-1 modulates platelet-monocyte interactions and instant blood-mediated inflammatory reaction in islet transplantation. *Thrombosis and Haemostasis*, **2016**, 115, 781-8	7	29
84	Safety profile after prolonged C3 inhibition. *Clinical Immunology*, **2018**, 197, 96-106	9	29
83	Recombinant antigen-enterotoxin A2/B chimeric mucosal immunogens differentially enhance antibody responses and B7-dependent costimulation of CD4(+) T cells. *Infection and Immunity*, **2001**, 69, 252-61	3.7	28
82	Differential virulence and innate immune interactions of Type I and II fimbrial genotypes of Porphyromonas gingivalis. *Oral Microbiology and Immunology*, **2009**, 24, 478-84		27
81	Regulation of the Bone Marrow Niche by Inflammation. *Frontiers in Immunology*, **2020**, 11, 1540	8.4	27
80	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	8.1	26
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78	Expression and function of the homeostatic molecule Del-1 in endothelial cells and the periodontal tissue. *Clinical and Developmental Immunology*, **2013**, 2013, 617809		26
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75	Impact of systemic factors in shaping the periodontal microbiome. *Periodontology 2000*, **2021**, 85, 126-160	12.9	25
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70	Inborn errors in immunity: unique natural models to dissect oral immunity. *Journal of Dental Research*, **2015**, 94, 753-8	8.1	21
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67	Mammalian cell ganglioside-binding specificities of E. coli enterotoxins LT-IIb and variant LT-IIb(T13I). *Glycobiology*, **2010**, 20, 41-54	5.8	19
66	Regulation of tissue infiltration by neutrophils: role of integrin 1 and other factors. *Current Opinion in Hematology*, **2016**, 23, 36-43	3.3	19
65	Safety and Efficacy of the Complement Inhibitor AMY-101 in a Natural Model of Periodontitis in Non-human Primates. *Molecular Therapy - Methods and Clinical Development*, **2017**, 6, 207-215	6.4	18
64	Effect of attenuated Salmonella enterica serovar Typhimurium expressing a Streptococcus mutans antigen on secondary responses to the cloned protein. *Infection and Immunity*, **2001**, 69, 6604-11	3.7	18
63	Construction and oral immunogenicity of a Salmonella typhimurium strain expressing a streptococcal adhesin linked to the A2/B subunits of cholera toxin. *Vaccine*, **1996**, 14, 1545-8	4.1	18
62	Macrophage 2-Integrins Regulate IL-22 by ILC3s and Protect from Lethal Citrobacter rodentium-Induced Colitis. *Cell Reports*, **2019**, 26, 1614-1626.e5	10.6	17
61	Gingival Exudatome Dynamics Implicate Inhibition of the Alternative Complement Pathway in the Protective Action of the C3 Inhibitor Cp40 in Nonhuman Primate Periodontitis. *Journal of Proteome Research*, **2018**, 17, 3153-3175	5.6	17
60	Inhibition of Porphyromonas gingivalis-induced periodontal bone loss by CXCR4 antagonist treatment. *Molecular Oral Microbiology*, **2012**, 27, 449-57	4.6	17
59	Endogenous developmental endothelial locus-1 limits ischaemia-related angiogenesis by blocking inflammation. *Thrombosis and Haemostasis*, **2017**, 117, 1150-1163	7	16
58	TLR2-dependent modulation of dendritic cells by LT-IIa-B5, a novel mucosal adjuvant derived from a type II heat-labile enterotoxin. *Journal of Leukocyte Biology*, **2011**, 90, 911-21	6.5	15
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50	Downregulation of the DNA-binding activity of nuclear factor-kappaB p65 subunit in Porphyromonas gingivalis fimbria-induced tolerance. *Infection and Immunity*, **2004**, 72, 1188-91	3.7	12
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