

Floris J Bikker

List of Publications by Year in descending order

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96
papers

2,576
citations

147726

31
h-index

223716

46
g-index

104
all docs

104
docs citations

104
times ranked

2989
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of the Bacteria-binding Peptide Domain on Salivary Agglutinin (gp-340/DMBT1), a Member of the Scavenger Receptor Cysteine-rich Superfamily. <i>Journal of Biological Chemistry</i> , 2002, 277, 32109-32115.	1.6	139
2	Antimicrobial and Immunomodulatory Activities of PR-39 Derived Peptides. <i>PLoS ONE</i> , 2014, 9, e95939.	1.1	114
3	Bacteria Binding by DMBT1/SAG/gp-340 Is Confined to the VEVLXXXW Motif in Its Scavenger Receptor Cysteine-rich Domains. <i>Journal of Biological Chemistry</i> , 2004, 279, 47699-47703.	1.6	111
4	DMBT1 Confers Mucosal Protection In Vivo and a Deletion Variant Is Associated With Crohn's Disease. <i>Gastroenterology</i> , 2007, 133, 1499-1509.	0.6	96
5	Human salivary agglutinin binds to lung surfactant protein-D and is identical with scavenger receptor protein gp-340. <i>Biochemical Journal</i> , 2001, 359, 243-248.	1.7	82
6	Improved proteolytic stability of chicken cathelicidin-2 derived peptides by d-amino acid substitutions and cyclization. <i>Peptides</i> , 2011, 32, 875-880.	1.2	77
7	Interspecies Interactions between <i>Clostridium difficile</i> and <i>Candida albicans</i> . <i>MSphere</i> , 2016, 1, .	1.3	74
8	Identification of chicken cathelicidin-2 core elements involved in antibacterial and immunomodulatory activities. <i>Molecular Immunology</i> , 2009, 46, 2465-2473.	1.0	69
9	Structure-function relationship of the human antimicrobial peptide LL-37 and LL-37 fragments in the modulation of TLR responses. <i>Biological Chemistry</i> , 2009, 390, 295-303.	1.2	64
10	DMBT1 functions as pattern-recognition molecule for polysulfated and polyphosphorylated ligands. <i>European Journal of Immunology</i> , 2009, 39, 833-842.	1.6	58
11	Selective tumor antigen vaccine delivery to human CD169 antigen-presenting cells using ganglioside-liposomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27528-27539.	3.3	54
12	Human salivary agglutinin binds to lung surfactant protein-D and is identical with scavenger receptor protein gp-340. <i>Biochemical Journal</i> , 2001, 359, 243.	1.7	53
13	Sequential changes of the DMBT1 expression and location in normal lung tissue and lung carcinomas. <i>Genes Chromosomes and Cancer</i> , 2002, 35, 164-169.	1.5	53
14	Immunomodulatory and Anti-Inflammatory Activities of Chicken Cathelicidin-2 Derived Peptides. <i>PLoS ONE</i> , 2016, 11, e0147919.	1.1	51
15	Colorimetric Assay for the Detection of Typical Biomarkers for Periodontitis Using a Magnetic Nanoparticle Biosensor. <i>Analytical Chemistry</i> , 2015, 87, 12161-12168.	3.2	50
16	The Bigger Picture: Why Oral Mucosa Heals Better Than Skin. <i>Biomolecules</i> , 2021, 11, 1165.	1.8	49
17	Highly Specific Protease-Based Approach for Detection of <i>Porphyromonas gingivalis</i> in Diagnosis of Periodontitis. <i>Journal of Clinical Microbiology</i> , 2012, 50, 104-112.	1.8	48
18	A rapid, non-invasive tool for periodontitis screening in a medical care setting. <i>BMC Oral Health</i> , 2019, 19, 87.	0.8	46

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19	Frequent downregulation of DMBT1 and galectin-3 in epithelial skin cancer. <i>International Journal of Cancer</i> , 2003, 105, 149-157.	2.3	45
20	Avian cathelicidins: Paradigms for the development of anti-infectives. <i>Veterinary Microbiology</i> , 2011, 153, 27-36.	0.8	42
21	Importance of Endosomal Cathelicidin Degradation To Enhance DNA-Induced Chicken Macrophage Activation. <i>Journal of Immunology</i> , 2015, 195, 3970-3977.	0.4	42
22	Characterization of a catalase-peroxidase from the hyperthermophilic archaeon <i>Archaeoglobus fulgidus</i> . <i>Extremophiles</i> , 2001, 5, 323-332.	0.9	41
23	Peptide-Based Fluorescence Resonance Energy Transfer Protease Substrates for the Detection and Diagnosis of <i>Bacillus</i> Species. <i>Analytical Chemistry</i> , 2011, 83, 2511-2517.	3.2	41
24	Nepenthesin Protease Activity Indicates Digestive Fluid Dynamics in Carnivorous <i>Nepenthes</i> Plants. <i>PLoS ONE</i> , 2015, 10, e0118853.	1.1	41
25	Evaluation of the Antibacterial Spectrum of Drosocin Analogues. <i>Chemical Biology and Drug Design</i> , 2006, 68, 148-153.	1.5	40
26	The SRCR/SID region of DMBT1 defines a complex multi-allele system representing the major basis for its variability in cancer. <i>Genes Chromosomes and Cancer</i> , 2002, 35, 242-255.	1.5	39
27	<i>In vitro</i> phenotypic differentiation towards commensal and pathogenic oral biofilms. <i>Biofouling</i> , 2015, 31, 503-510.	0.8	37
28	Binding of salivary agglutinin to IgA. <i>Biochemical Journal</i> , 2004, 383, 159-164.	1.7	36
29	Anti-adherence and bactericidal activity of sphingolipids against <i>Streptococcus mutans</i> . <i>European Journal of Oral Sciences</i> , 2015, 123, 221-227.	0.7	35
30	A cathelicidin-2-derived peptide effectively impairs <i>Staphylococcus epidermidis</i> biofilms. <i>International Journal of Antimicrobial Agents</i> , 2011, 37, 476-479.	1.1	34
31	Rapid Colorimetric Detection of <i>Pseudomonas aeruginosa</i> in Clinical Isolates Using a Magnetic Nanoparticle Biosensor. <i>ACS Omega</i> , 2019, 4, 21684-21688.	1.6	34
32	Carcinogen inducibility in vivo and down-regulation of DMBT1 during breast carcinogenesis. <i>Genes Chromosomes and Cancer</i> , 2004, 39, 185-194.	1.5	32
33	Bacterial proteases: targets for diagnostics and therapy. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2014, 33, 1081-1087.	1.3	32
34	A Peptide Domain of Bovine Milk Lactoferrin Inhibits the Interaction between Streptococcal Surface Protein Antigen and a Salivary Agglutinin Peptide Domain. <i>Infection and Immunity</i> , 2004, 72, 6181-6184.	1.0	29
35	Chicken cathelicidin-2-derived peptides with enhanced immunomodulatory and antibacterial activities against biological warfare agents. <i>International Journal of Antimicrobial Agents</i> , 2010, 36, 271-274.	1.1	28
36	Impact of food odors signaling specific taste qualities and macronutrient content on saliva secretion and composition. <i>Appetite</i> , 2019, 143, 104399.	1.8	28

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37	Antimicrobial and Immunomodulatory Activity of PMAP-23 Derived Peptides. <i>Protein and Peptide Letters</i> , 2017, 24, 609-616.	0.4	25
38	Development of magnetic nanoparticle based calorimetric assay for the detection of bovine mastitis in cow milk. <i>Analytical Biochemistry</i> , 2017, 523, 58-64.	1.1	24
39	Parvimonas micra stimulates expression of gingipains from Porphyromonas gingivalis in multi-species communities. <i>Anaerobe</i> , 2019, 55, 54-60.	1.0	24
40	Comparing culture, real-time PCR and fluorescence resonance energy transfer technology for detection of <i>Porphyromonas gingivalis</i> in patients with or without peri-implant infections. <i>Journal of Periodontal Research</i> , 2012, 47, 616-625.	1.4	21
41	Evaluation of a D-amino-acid-containing fluorescence resonance energy transfer peptide library for profiling prokaryotic proteases. <i>Analytical Biochemistry</i> , 2013, 441, 38-43.	1.1	21
42	Sphingoid Bases Inhibit Acid-Induced Demineralization of Hydroxyapatite. <i>Caries Research</i> , 2015, 49, 9-17.	0.9	21
43	Gingival tissue human beta-defensin levels in relation to infection and inflammation. <i>Journal of Clinical Periodontology</i> , 2020, 47, 309-318.	2.3	21
44	Salivary Total Protease Activity Based on a Broad-Spectrum Fluorescence Resonance Energy Transfer Approach to Monitor Induction and Resolution of Gingival Inflammation. <i>Molecular Diagnosis and Therapy</i> , 2019, 23, 667-676.	1.6	19
45	Immunohistochemical Detection of Salivary Agglutinin/gp-340 in Human Parotid, Submandibular, and Labial Salivary Glands. <i>Journal of Dental Research</i> , 2002, 81, 134-139.	2.5	18
46	On site visual detection of Porphyromonas gingivalis related periodontitis by using a magnetic-nanobead based assay for gingipains protease biomarkers. <i>Mikrochimica Acta</i> , 2018, 185, 149.	2.5	18
47	Effects of lactoferrin derived peptides on simulants of biological warfare agents. <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 3.	1.7	17
48	Identification of the hydroxyapatite-binding domain of salivary agglutinin. <i>European Journal of Oral Sciences</i> , 2013, 121, 7-12.	0.7	15
49	Sortase A as a Tool to Functionalize Surfaces. <i>Bioconjugate Chemistry</i> , 2013, 24, 828-831.	1.8	15
50	Rapid detection and semi-quantification of IgG-accessible Staphylococcus aureus surface-associated antigens using a multiplex competitive Luminex assay. <i>Journal of Immunological Methods</i> , 2013, 397, 18-27.	0.6	15
51	Synthetic LPETG-Containing Peptide Incorporation in the Staphylococcus aureus Cell-Wall in a Sortase A- and Growth Phase-Dependent Manner. <i>PLoS ONE</i> , 2014, 9, e89260.	1.1	14
52	Staphylococcus aureus Sortase A-Mediated Incorporation of Peptides: Effect of Peptide Modification on Incorporation. <i>PLoS ONE</i> , 2016, 11, e0147401.	1.1	14
53	Comparison of non-magnetic and magnetic beads in bead-based assays. <i>Journal of Immunological Methods</i> , 2016, 436, 29-33.	0.6	14
54	Anti-erosive effects of fluoride and phytosphingosine: an in vitro study. <i>European Journal of Oral Sciences</i> , 2016, 124, 396-402.	0.7	13

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55	Regional differences in perceived oral dryness as determined with a newly developed questionnaire, the Regional Oral Dryness Inventory. <i>Clinical Oral Investigations</i> , 2020, 24, 4051-4060.	1.4	13
56	All-trans retinoic acid and human salivary histatin-1 promote the spreading and osteogenic activities of pre-osteoblasts in vitro. <i>FEBS Open Bio</i> , 2020, 10, 396-406.	1.0	13
57	Short communication: Protease activity measurement in milk as a diagnostic test for clinical mastitis in dairy cows. <i>Journal of Dairy Science</i> , 2015, 98, 4613-4618.	1.4	12
58	Di-Calcium Phosphate and Phytosphingosine as an Innovative Acid-Resistant Treatment to Occlude Dentine Tubules. <i>Caries Research</i> , 2016, 50, 303-309.	0.9	12
59	The scavenging capacity of DMBT1 is impaired by germline deletions. <i>Immunogenetics</i> , 2017, 69, 401-407.	1.2	12
60	Comparing periodontitis biomarkers in saliva, oral rinse and gingival crevicular fluid: A pilot study. <i>Journal of Clinical Periodontology</i> , 2021, 48, 1250-1259.	2.3	12
61	Salivary Histatin 1 and 2 Are Targeted to Mitochondria and Endoplasmic Reticulum in Human Cells. <i>Cells</i> , 2020, 9, 795.	1.8	11
62	Differences in perceived intra-oral dryness in various dry-mouth patients as determined using the Regional Oral Dryness Inventory. <i>Clinical Oral Investigations</i> , 2021, 25, 4031-4043.	1.4	11
63	Effect of phytosphingosine on staining resistance and microhardness of tooth enamel. <i>Journal of Esthetic and Restorative Dentistry</i> , 2021, 33, 294-302.	1.8	11
64	Scavenging of bacteria or bacterial products by magnetic particles functionalized with a broad-spectrum pathogen recognition receptor motif offers diagnostic and therapeutic applications. <i>Acta Biomaterialia</i> , 2022, 141, 418-428.	4.1	11
65	PAI-2/SerpinB2 inhibits proteolytic activity in a <i>P. gingivalis</i> -dominated multispecies bacterial consortium. <i>Archives of Oral Biology</i> , 2016, 70, 1-8.	0.8	10
66	A stepwise approach investigating salivary responses upon multisensory food cues. <i>Physiology and Behavior</i> , 2020, 226, 113116.	1.0	10
67	Human Salivary Histatin-1 Is More Efficacious in Promoting Acute Skin Wound Healing Than Acellular Dermal Matrix Paste. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 999.	2.0	10
68	Histatin-1 is a novel osteogenic factor that promotes bone cell adhesion, migration, and differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 336-346.	1.3	10
69	Salivary Agglutinin/DMBT1SAG Expression is Up-regulated in the Presence of Salivary Gland Tumors. <i>Journal of Dental Research</i> , 2004, 83, 567-571.	2.5	9
70	Detection of Sulfur Mustard Adducts in Human Callus by Phage Antibodies. <i>Chemical Biology and Drug Design</i> , 2007, 69, 314-320.	1.5	9
71	Phytosphingosine Prevents the Formation of Young Salivary Biofilms in vitro. <i>Caries Research</i> , 2018, 52, 7-13.	0.9	9
72	Lubricating properties of chewing stimulated whole saliva from patients suffering from xerostomia. <i>Clinical Oral Investigations</i> , 2021, 25, 4459-4469.	1.4	9

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73	Identification and characterization of a salivary-pellicle-binding peptide by phage display. <i>Archives of Oral Biology</i> , 2014, 59, 448-454.	0.8	8
74	DMBT1 inhibition of <i>Pseudomonas aeruginosa</i> twitching motility involves its N-glycosylation and cannot be conferred by the Scavenger Receptor Cysteine-Rich bacteria-binding peptide domain. <i>Scientific Reports</i> , 2019, 9, 13146.	1.6	8
75	Human Salivary Histatin-1 Promotes Osteogenic Cell Spreading on Both Bio-Inert Substrates and Titanium SLA Surfaces. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 584410.	2.0	8
76	The association between oral dryness and use of dry-mouth interventions in Sjögren's syndrome patients. <i>Clinical Oral Investigations</i> , 2022, 26, 1465-1475.	1.4	8
77	Elevated Baseline Salivary Protease Activity May Predict the Steadiness of Gingival Inflammation During Periodontal Healing: A 12-Week Follow-Up Study on Adults. <i>Pathogens</i> , 2020, 9, 751.	1.2	7
78	LFchimera: a synthetic mimic of the two antimicrobial domains of bovine lactoferrin. <i>Biochemistry and Cell Biology</i> , 2021, 99, 128-137.	0.9	7
79	Is TIMP-1 a biomarker for periodontal disease? A systematic review and meta-analysis. <i>Journal of Periodontal Research</i> , 2022, 57, 235-245.	1.4	7
80	Tailor made plasmin substrates as potential diagnostic tool to test for mastitis. <i>Veterinary Research Communications</i> , 2014, 38, 271-277.	0.6	6
81	LFchimera protects HeLa cells from invasion by <i>Yersinia</i> spp. in vitro. <i>BioMetals</i> , 2018, 31, 941-950.	1.8	6
82	Anthrax protective antigen is a calcium-dependent serine protease. <i>Virulence</i> , 2018, 9, 1085-1091.	1.8	6
83	Letter to the editor concerning Valstar et al., [Radiother Oncol 2020 Sep 23;S0167-8140(20)30809-4. doi: 10.1016/j.radonc.2020.09.034]. <i>Radiotherapy and Oncology</i> , 2021, 154, 318.	0.3	6
84	Evaluation of a FRET-Peptide Substrate to Predict Virulence in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2013, 8, e81428.	1.1	4
85	Natural and Synthetic Sortase A Substrates Are Processed by <i>Staphylococcus aureus</i> via Different Pathways. <i>Bioconjugate Chemistry</i> , 2022, 33, 555-559.	1.8	4
86	Diagnosis of Exposure to Chemical Warfare Agents: An Essential Tool to Counteract Chemical Terrorism. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009, , 195-201.	0.5	3
87	A comprehensive study on the role of the <i>Yersinia pestis</i> virulence markers in an animal model of pneumonic plague. <i>Folia Microbiologica</i> , 2011, 56, 95-102.	1.1	3
88	Identification of VEGFR2 as the Histatin-1 receptor in endothelial cells. <i>Biochemical Pharmacology</i> , 2022, 201, 115079.	2.0	3
89	<i>Bacillus globigii</i> cell size is influenced by variants of the quorum sensing peptide extracellular death factor. <i>Antonie Van Leeuwenhoek</i> , 2014, 105, 221-228.	0.7	2
90	Incorporation of a Valine-Leucine-Lysine-Containing Substrate in the Bacterial Cell Wall. <i>Bioconjugate Chemistry</i> , 2016, 27, 2418-2423.	1.8	2

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91	Determination of intra-oral surface areas by cone-beam computed tomography analysis and their relation with anthropometric measurements of the head. <i>Surgical and Radiologic Anatomy</i> , 2020, 42, 1063-1071.	0.6	2
92	The relationship between the severity of oral dryness and the use of dry-mouth interventions by various subgroups of dry-mouth patients. <i>Clinical Oral Investigations</i> , 2022, 26, 3097-3108.	1.4	2
93	Simple and rapid peptide nanoprobe biosensor for the detection of Legionellaceae. <i>Analyst</i> , The, 2021, 146, 3568-3577.	1.7	1
94	The minimal active domain of human salivary histatin 1 is efficacious in promoting acute skin wound healing. <i>Military Medical Research</i> , 2022, 9, .	1.9	1
95	A novel gingipain regulatory gene in <i>Porphyromonas gingivalis</i> mediates host cell detachment and inhibition of wound closure. <i>MicrobiologyOpen</i> , 2020, 9, e1128.	1.2	0
96	Gramicidin A is hydrolyzed by a <i>stereospecific</i> peptidase produced by <i>Bacillus anthracis</i> . <i>Environmental Microbiology Reports</i> , 2022, , .	1.0	0