

# Jan G M Bolscher

## List of Publications by Year in descending order

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88  
papers

3,312  
citations

136950

32  
h-index

161849

54  
g-index

89  
all docs

89  
docs citations

89  
times ranked

3572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lactoferrampin: a novel antimicrobial peptide in the N1-domain of bovine lactoferrin. <i>Peptides</i> , 2004, 25, 177-183.	2.4	218
2	Histatins are the major wound closure stimulating factors in human saliva as identified in a cell culture assay. <i>FASEB Journal</i> , 2008, 22, 3805-3812.	0.5	183
3	A Membrane-Destabilizing Peptide in Capsid Protein L2 Is Required for Egress of Papillomavirus Genomes from Endosomes. <i>Journal of Virology</i> , 2006, 80, 759-768.	3.4	165
4	Candidacidal effects of two antimicrobial peptides: histatin 5 causes small membrane defects, but LL-37 causes massive disruption of the cell membrane. <i>Biochemical Journal</i> , 2005, 388, 689-695.	3.7	154
5	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.	3.4	139
6	Bactericidal effect of bovine lactoferrin, LFcin, LFampin and LFchimera on antibiotic-resistant <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . <i>BioMetals</i> , 2010, 23, 569-578.	4.1	94
7	Bactericidal activity of LFchimera is stronger and less sensitive to ionic strength than its constituent lactoferricin and lactoferrampin peptides. <i>Biochimie</i> , 2009, 91, 123-132.	2.6	88
8	Structure-activity analysis of histatin, a potent wound healing peptide from human saliva: cyclization of histatin potentiates molar activity 1000 fold. <i>FASEB Journal</i> , 2009, 23, 3928-3935.	0.5	83
9	Sortase A as a tool for high yield histatin cyclization. <i>FASEB Journal</i> , 2011, 25, 2650-2658.	0.5	83
10	Energy Depletion Protects <i>Candida albicans</i> against Antimicrobial Peptides by Rigidifying Its Cell Membrane. <i>Journal of Biological Chemistry</i> , 2007, 282, 18831-18841.	3.4	75
11	Novel lactoferrampin antimicrobial peptides derived from human lactoferrin. <i>Biochimie</i> , 2009, 91, 141-154.	2.6	71
12	Anticancer activities of bovine and human lactoferricin-derived peptides. <i>Biochemistry and Cell Biology</i> , 2017, 95, 91-98.	2.0	70
13	Antimicrobial and antibiofilm activity of LL-37 and its truncated variants against <i>Burkholderia pseudomallei</i> . <i>International Journal of Antimicrobial Agents</i> , 2012, 39, 39-44.	2.5	69
14	Ultrastructural effects of antimicrobial peptides from bovine lactoferrin on the membranes of <i>Candida albicans</i> and <i>Escherichia coli</i> . <i>Peptides</i> , 2005, 26, 1537-1542.	2.4	68
15	Lactoferrampin, an antimicrobial peptide of bovine lactoferrin, exerts its candidacidal activity by a cluster of positively charged residues at the C-terminus in combination with a helix-facilitating N-terminal part. <i>Biological Chemistry</i> , 2005, 386, 137-142.	2.5	67
16	Reactive oxygen species play no role in the candidacidal activity of the salivary antimicrobial peptide histatin 5. <i>Biochemical Journal</i> , 2004, 381, 447-452.	3.7	65
17	Interactions of histatin 5 and histatin 5-derived peptides with liposome membranes: surface effects, translocation and permeabilization. <i>Biochemical Journal</i> , 2004, 379, 665-672.	3.7	64
18	Mucins as key molecules for the classification of intestinal metaplasia of the stomach. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2002, 440, 311-317.	2.8	60

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19	The role of salivary histatin and the human cathelicidin LL-37 in wound healing and innate immunity. <i>Biological Chemistry</i> , 2010, 391, 541-548.	2.5	56
20	Discovery and Prevalidation of Salivary Extracellular microRNA Biomarkers Panel for the Noninvasive Detection of Benign and Malignant Parotid Gland Tumors. <i>Clinical Cancer Research</i> , 2013, 19, 3032-3038.	7.0	56
21	Structural and biophysical characterization of an antimicrobial peptide chimera comprised of lactoferricin and lactoferrampin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 762-775.	2.6	53
22	In Vivo Binding of the Salivary Glycoprotein EP-GP (Identical to GCDFP-15) to Oral and Non-Oral Bacteria Detection and Identification of EP-GP Binding Species. <i>Biological Chemistry</i> , 1997, 378, 83-88.	2.5	52
23	Different wound healing properties of dermis, adipose, and gingiva mesenchymal stromal cells. <i>Wound Repair and Regeneration</i> , 2016, 24, 100-109.	3.0	52
24	The human cathelicidin peptide LL-37 and truncated variants induce segregation of lipids and proteins in the plasma membrane of <i>Candida albicans</i> . <i>Biological Chemistry</i> , 2006, 387, 1495-502.	2.5	51
25	Comparative <i>in vivo</i> and <i>in vitro</i> analyses of putative virulence factors of <i>Burkholderia pseudomallei</i> using lipopolysaccharide, capsule and flagellin mutants. <i>FEMS Immunology and Medical Microbiology</i> , 2009, 56, 253-259.	2.7	42
26	A one-enzyme strategy to release an antimicrobial peptide from the LFampin-domain of bovine lactoferrin. <i>Peptides</i> , 2006, 27, 1-9.	2.4	41
27	In vitro susceptibility of <i>Burkholderia pseudomallei</i> to antimicrobial peptides. <i>International Journal of Antimicrobial Agents</i> , 2009, 34, 309-314.	2.5	40
28	Antimicrobial Peptide LL-37 Is Both a Substrate of Cathepsins S and K and a Selective Inhibitor of Cathepsin L. <i>Biochemistry</i> , 2015, 54, 2785-2798.	2.5	38
29	Chimerization of lactoferricin and lactoferrampin peptides strongly potentiates the killing activity against <i>Candida albicans</i> <sup>1</sup> This article is part of a Special Issue entitled Lactoferrin and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2012, 90, 378-388.	2.0	37
30	Killing of <i>Mycobacterium avium</i> by Lactoferricin Peptides: Improved Activity of Arginine- and -Amino-Acid-Containing Molecules. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3461-3467.	3.2	37
31	Distinct bactericidal activities of bovine lactoferrin peptides LFampin 268â€“284 and LFampin 265â€“284: Asp-Leu-Ile makes a difference This paper is one of a selection of papers published in this Special Issue, entitled 7th International Conference on Lactoferrin: Structure, Function, and Applications, and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2006, 84, 358-362.	2.0	36
32	Sortase-mediated backbone cyclization of proteins and peptides. <i>Biological Chemistry</i> , 2015, 396, 283-293.	2.5	36
33	Lactoferricin Peptides Increase Macrophages' Capacity To Kill <i>Mycobacterium avium</i> . <i>MSphere</i> , 2017, 2, .	2.9	33
34	Antimicrobial activities of LL-37 and its truncated variants against <i>Burkholderia thailandensis</i> . <i>International Journal of Antimicrobial Agents</i> , 2010, 36, 447-452.	2.5	30
35	Histatin-1, a histidine-rich peptide in human saliva, promotes cell-substrate and cell-cell adhesion. <i>FASEB Journal</i> , 2015, 29, 3124-3132.	0.5	30
36	Effect of amino acid substitutions on the candidacidal activity of LFampin 265â€“284. <i>Peptides</i> , 2005, 26, 2093-2097.	2.4	29

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37	Structural diversity and mode of action on lipid membranes of three lactoferrin candidacidal peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1329-1339.	2.6	29
38	Human salivary peptide histatinâ€1 stimulates epithelial and endothelial cell adhesion and barrier function. <i>FASEB Journal</i> , 2017, 31, 3922-3933.	0.5	28
39	Bovine Lactoferrin and Lactoferrin-Derived Peptides Inhibit the Growth of <i>Vibrio cholerae</i> and Other <i>Vibrio</i> species. <i>Frontiers in Microbiology</i> , 2017, 8, 2633.	3.5	27
40	Introduction of oxygen into the alkyl chain of N-decyl-dNM decreases lipophilicity and results in increased retention of glucose residues on N-linked oligosaccharides. <i>Glycobiology</i> , 1994, 4, 141-149.	2.5	26
41	Histatin 5-Derived Peptide with Improved Fungicidal Properties Enhances Human Immunodeficiency Virus Type 1 Replication by Promoting Viral Entry. <i>Journal of Virology</i> , 2006, 80, 9236-9243.	3.4	26
42	Parasitocidal effect of synthetic bovine lactoferrin peptides on the enteric parasite <i>Giardia intestinalis</i> . <i>Biochemistry and Cell Biology</i> , 2017, 95, 82-90.	2.0	26
43	The Influence of Oral Bacteria on Epithelial Cell Migration In Vitro. <i>Mediators of Inflammation</i> , 2013, 2013, 1-6.	3.0	25
44	Bovine and human lactoferricin peptides: chimeras and new cyclic analogs. <i>BioMetals</i> , 2014, 27, 935-948.	4.1	25
45	The Electrochemical Proton Gradient Generated by the Fumarate-Reductase System in <i>Escherichia coli</i> and Its Bioenergetic Implications. <i>FEBS Journal</i> , 1981, 113, 369-374.	0.2	24
46	Enhanced leishmanicidal activity of cryptopeptide chimeras from the active N1 domain of bovine lactoferrin. <i>Amino Acids</i> , 2012, 43, 2265-2277.	2.7	24
47	Bactericidal effect of bovine lactoferrin and synthetic peptide lactoferrin chimera in <i>Streptococcus pneumoniae</i> and the decrease in <i>luxS</i> gene expression by lactoferrin. <i>BioMetals</i> , 2014, 27, 969-980.	4.1	24
48	Lactoferrin-Derived Antimicrobial Peptide Induces a Micellar Cubic Phase in a Model Membrane System. <i>Biophysical Journal</i> , 2011, 101, L20-L22.	0.5	23
49	Protective effects of lactoferrin chimera and bovine lactoferrin in a mouse model of enterohaemorrhagic <i>Escherichia coli</i> O157:H7 infection<sup>1</sup>This article is part of a Special Issue entitled Lactoferrin and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2012, 90, 405-411.	2.0	22
50	A heterodimer comprised of two bovine lactoferrin antimicrobial peptides exhibits powerful bactericidal activity against <i>Burkholderia pseudomallei</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 1217-1224.	3.6	22
51	Inhibition of HIV-1 IIIB and clinical isolates by human parotid, submandibular, sublingual and palatine saliva. <i>European Journal of Oral Sciences</i> , 2002, 110, 149-156.	1.5	20
52	Antibacterial and cell penetrating effects of LFcin17â€30, LFampin265â€284, and LF chimera on enteroaggregative <i>Escherichia coli</i> . <i>Biochemistry and Cell Biology</i> , 2017, 95, 76-81.	2.0	20
53	Filling Time of a Lamellar Capillary-Filling Semen Analysis Chamber Is a Rapid, Precise, and Accurate Method to Assess Viscosity of Seminal Plasma. <i>Journal of Andrology</i> , 2007, 28, 461-465.	2.0	19
54	C- and N-truncated antimicrobial peptides from LFampin 265 - 284: Biophysical versus microbiology results. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2011, 3, 60.	0.6	19

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55	Impact of nutritional stress on drug susceptibility and biofilm structures of <i>Burkholderia pseudomallei</i> and <i>Burkholderia thailandensis</i> grown in static and microfluidic systems. PLoS ONE, 2018, 13, e0194946.	2.5	19
56	Effects of lactoferrin derived peptides on simulants of biological warfare agents. World Journal of Microbiology and Biotechnology, 2017, 33, 3.	3.6	17
57	Lactoferrin Disaggregates Pneumococcal Biofilms and Inhibits Acquisition of Resistance Through Its DNase Activity. Frontiers in Microbiology, 2019, 10, 2386.	3.5	17
58	Decreased fucose incorporation in cell surface carbohydrates is associated with inhibition of invasion. Clinical and Experimental Metastasis, 1989, 7, 557-569.	3.3	16
59	Lactoferrin and lactoferrin chimera inhibit damage caused by enteropathogenic <i>Escherichia coli</i> in HEp-2 cells. Biochimie, 2012, 94, 1935-1942.	2.6	15
60	Human Salivary Micro-RNA in Patients with Parotid Salivary Gland Neoplasms. PLoS ONE, 2015, 10, e0142264.	2.5	15
61	Evaluation of salivary mucins in children with deciduous and mixed dentition: comparative analysis between high and low caries-risk groups. Clinical Oral Investigations, 2015, 19, 1931-1937.	3.0	15
62	D-LL-31 in combination with ceftazidime synergistically enhances bactericidal activity and biofilm destruction in <i>Burkholderia pseudomallei</i> . Biofouling, 2019, 35, 573-584.	2.2	15
63	Influence of specific amino acid side-chains on the antimicrobial activity and structure of bovine lactoferrampin <sup>1</sup> This article is part of Special Issue entitled Lactoferrin and has undergone the Journal's usual peer review process.. Biochemistry and Cell Biology, 2012, 90, 362-377.	2.0	14
64	Saliva-Derived Host Defense Peptides Histatin1 and LL-37 Increase Secretion of Antimicrobial Skin and Oral Mucosa Chemokine CCL20 in an IL-1 $\pm$ -Independent Manner. Journal of Immunology Research, 2017, 2017, 1-11.	2.2	14
65	Solid-phase synthesis of a pentavalent GalNAc-containing glycopeptide (Tn antigen) representing the nephropathy-associated IgA hinge region. Carbohydrate Research, 2010, 345, 1998-2003.	2.3	13
66	All-trans retinoic acid and human salivary histatin $\alpha$ 1 promote the spreading and osteogenic activities of preosteoblasts in vitro. FEBS Open Bio, 2020, 10, 396-406.	2.3	13
67	The Influence of Chronic Wound Extracts on Inflammatory Cytokine and Histatin Stability. PLoS ONE, 2016, 11, e0152613.	2.5	13
68	Killing activity of LFchimera on periodontopathic bacteria and multispecies oral biofilm formation in vitro. World Journal of Microbiology and Biotechnology, 2017, 33, 167.	3.6	12
69	D-LL-31 enhances biofilm-eradicating effect of currently used antibiotics for chronic rhinosinusitis and its immunomodulatory activity on human lung epithelial cells. PLoS ONE, 2020, 15, e0243315.	2.5	12
70	Ultrastructural effects and antibiofilm activity of LFchimera against <i>Burkholderia pseudomallei</i> . World Journal of Microbiology and Biotechnology, 2016, 32, 33.	3.6	11
71	Salivary Histatin 1 and 2 Are Targeted to Mitochondria and Endoplasmic Reticulum in Human Cells. Cells, 2020, 9, 795.	4.1	11
72	Histatin $\alpha$ 1 is a novel osteogenic factor that promotes bone cell adhesion, migration, and differentiation. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 336-346.	2.7	10

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73	Membrane-active mechanism of LFchimera against Burkholderia pseudomallei and Burkholderia thailandensis. <i>BioMetals</i> , 2014, 27, 949-956.	4.1	9
74	Bovine lactoferrin and lactoferrin peptides affect endometrial and cervical cancer cell lines. <i>Biochemistry and Cell Biology</i> , 2021, 99, 149-158.	2.0	9
75	Salivary peptide histatin 1 mediated cell adhesion: a possible role in mesenchymal-epithelial transition and in pathologies. <i>Biological Chemistry</i> , 2018, 399, 1409-1419.	2.5	8
76	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.	4.1	8
77	LFchimera protects HeLa cells from invasion by Yersinia spp. in vitro. <i>BioMetals</i> , 2018, 31, 941-950.	4.1	6
78	DNase-mediated eDNA removal enhances D-LL-31 activity against biofilms of bacteria isolated from chronic rhinosinusitis patients. <i>Biofouling</i> , 2020, 36, 1117-1128.	2.2	6
79	Mucoepidermoid carcinoma-associated expression of MUC5AC, MUC5B and mucin-type carbohydrate antigen sialyl-Tn in the parotid gland. <i>Archives of Oral Biology</i> , 2017, 82, 121-126.	1.8	5
80	Synergistic effects of LFchimera and antibiotic against planktonic and biofilm form of <i>Aggregatibacter actinomycetemcomitans</i> . <i>PLoS ONE</i> , 2019, 14, e0217205.	2.5	5
81	High number of chromosomal copy number aberrations inversely relates to t(11;19)(q21;p13) translocation status in mucoepidermoid carcinoma of the salivary glands. <i>Oncotarget</i> , 2017, 8, 69456-69464.	1.8	4
82	Identification of VEGFR2 as the Histatin-1 receptor in endothelial cells. <i>Biochemical Pharmacology</i> , 2022, 201, 115079.	4.4	3
83	Discovery of Salivary Gland Tumors™ Biomarkers via Co-Regularized Sparse-Group Lasso. <i>Lecture Notes in Computer Science</i> , 2017, , 298-305.	1.3	2
84	LFampin Derived Antimicrobial Peptide: Biophysical Characterization and Biological Implications of Composition and Structure. <i>Biophysical Journal</i> , 2010, 98, 84a.	0.5	0
85	Title is missing!. , 2020, 15, e0243315.		0
86	Title is missing!. , 2020, 15, e0243315.		0
87	Title is missing!. , 2020, 15, e0243315.		0
88	Title is missing!. , 2020, 15, e0243315.		0