Eva Helmerhorst

List of Publications by Year in Descending Order

71 papers	3,873 citations	37 h-index	61 g-index
72 ext. papers	4,197 ext. citations	4.5 avg, IF	5.01 L-index

#	Paper	IF	Citations
71	Direct evaluation of the antioxidant properties of salivary proline-rich proteins. *Journal of Clinical Biochemistry and Nutrition*, **2020**, 67, 131-136	3.1	2
70	Gluten Degrading Enzymes for Treatment of Celiac Disease. *Nutrients*, **2020**, 12,	6.7	21
69	Commensal Bacterium Degrades and Detoxifies Gluten via a Highly Effective Subtilisin Enzyme. *Nutrients*, **2020**, 12,	6.7	5
68	Pharmaceutically modified subtilisins withstand acidic conditions and effectively degrade gluten in vivo. *Scientific Reports*, **2019**, 9, 7505	4.9	7
67	Direct assessment of the antioxidant property of salivary histatin. *Journal of Clinical Biochemistry and Nutrition*, **2019**, 65, 217-222	3.1	7
66	A Role for Salivary Peptides in the Innate Defense Against Enterotoxigenic Escherichia coli. *Journal of Infectious Diseases*, **2018**, 217, 1435-1441	7	8
65	The complexity of oral physiology and its impact on salivary diagnostics. *Oral Diseases*, **2018**, 24, 363-371	3.5	21
64	Salivary Gluten Degradation and Oral Microbial Profiles in Healthy Individuals and Celiac Disease Patients. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	28
63	Saliva and Serum Protein Exchange at the Tooth Enamel Surface. *Journal of Dental Research*, **2017**, 96, 437-443	8.1	20
62	Identification of food-grade subtilisins as gluten-degrading enzymes to treat celiac disease. *American Journal of Physiology - Renal Physiology*, **2016**, 311, G571-80	5.1	12
61	Identification of Pseudolysin (lasB) as an Aciduric Gluten-Degrading Enzyme with High Therapeutic Potential for Celiac Disease. *American Journal of Gastroenterology*, **2015**, 110, 899-908	0.7	29
60	Salivary proline-rich proteins and gluten: Do structural similarities suggest a role in celiac disease?. *Proteomics - Clinical Applications*, **2015**, 9, 953-64	3.1	6
59	Despite sequence homologies to gluten, salivary proline-rich proteins do not elicit immune responses central to the pathogenesis of celiac disease. *American Journal of Physiology - Renal Physiology*, **2015**, 309, G910-7	5.1	4
58	Uncovering the molecular networks in periodontitis. *Proteomics - Clinical Applications*, **2014**, 8, 748-61	3.1	51
57	Effect of Rothia mucilaginosa enzymes on gliadin (gluten) structure, deamidation, and immunogenic epitopes relevant to celiac disease. *American Journal of Physiology - Renal Physiology*, **2014**, 307, G769-76	5.1	19
56	High-resolution high-performance liquid chromatography with electrospray ionization mass spectrometry and tandem mass spectrometry characterization of a new isoform of human salivary acidic proline-rich proteins named Roma-Boston Ser[1](Phos) -> Phe variant. *Journal of Separation Science*, **2014**, 37, 1896-902	3.4	6
55	Experimental Strategy to Discover Microbes with Gluten-degrading Enzyme Activities. *Proceedings of SPIE*, **2014**, 9112,	1.7	10

54	Nanoscale adhesion forces between enamel pellicle proteins and hydroxyapatite. *Journal of Dental Research*, **2014**, 93, 514-9	8.1	11
53	The cultivable human oral gluten-degrading microbiome and its potential implications in coeliac disease and gluten sensitivity. *Clinical Microbiology and Infection*, **2013**, 19, E386-94	9.5	69
52	The diagnostic potential of salivary protease activities in periodontal health and disease. *Oral Diseases*, **2013**, 19, 781-8	3.5	14
51	Anti-candidal activity of genetically engineered histatin variants with multiple functional domains. *PLoS ONE*, **2012**, 7, e51479	3.7	8
50	The antifungal activity of human parotid secretion is species-specific. *Medical Mycology*, **2011**, 49, 218-21	3.9	1
49	Influence of histatin 5 on Candida albicans mitochondrial protein expression assessed by quantitative mass spectrometry. *Journal of Proteome Research*, **2011**, 10, 646-55	5.6	16
48	Whole-saliva proteolysis and its impact on salivary diagnostics. *Journal of Dental Research*, **2011**, 90, 1328-30	8.1	68
47	Identification of Rothia bacteria as gluten-degrading natural colonizers of the upper gastro-intestinal tract. *PLoS ONE*, **2011**, 6, e24455	3.7	81
46	Discovery of a novel and rich source of gluten-degrading microbial enzymes in the oral cavity. *PLoS ONE*, **2010**, 5, e13264	3.7	65
45	Mass spectrometric identification of key proteolytic cleavage sites in statherin affecting mineral homeostasis and bacterial binding domains. *Journal of Proteome Research*, **2010**, 9, 5413-21	5.6	20
44	Evidence of intact histatins in the in vivo acquired enamel pellicle. *Journal of Dental Research*, **2010**, 89, 626-30	8.1	53
43	Large-scale phosphoproteome of human whole saliva using disulfide-thiol interchange covalent chromatography and mass spectrometry. *Analytical Biochemistry*, **2010**, 407, 19-33	3.1	39
42	Concentration and fate of histatins and acidic proline-rich proteins in the oral environment. *Archives of Oral Biology*, **2009**, 54, 345-53	2.8	61
41	Activity-based mass spectrometric characterization of proteases and inhibitors in human saliva. *Proteomics - Clinical Applications*, **2009**, 3, 810-820	3.1	25
40	Multiple components contribute to ability of saliva to inhibit influenza viruses. *Oral Microbiology and Immunology*, **2009**, 24, 18-24		60
39	Fiber-optic microsphere-based antibody array for the analysis of inflammatory cytokines in saliva. *Analytical Chemistry*, **2009**, 81, 2106-14	7.8	79
38	Kinetics of histatin proteolysis in whole saliva and the effect on bioactive domains with metal-binding, antifungal, and wound-healing properties. *FASEB Journal*, **2009**, 23, 2691-701	0.9	50
37	A general enhancement of autonomic and cortisol responses during social evaluative threat. *Psychosomatic Medicine*, **2009**, 71, 877-85	3.7	106

36	Identification of Lys-Pro-Gln as a novel cleavage site specificity of saliva-associated proteases. *Journal of Biological Chemistry*, **2008**, 283, 19957-66	5.4	55
35	Use of colorimetric test strips for monitoring the effect of hemodialysis on salivary nitrite and uric acid in patients with end-stage renal disease: a proof of principle. *Clinical Chemistry*, **2008**, 54, 1473-80	5.5	59
34	Proteome of human minor salivary gland secretion. *Journal of Dental Research*, **2008**, 87, 445-50	8.1	68
33	Whole saliva proteolysis: wealth of information for diagnostic exploitation. *Annals of the New York Academy of Sciences*, **2007**, 1098, 454-60	6.5	17
32	Acquired enamel pellicle and its potential role in oral diagnostics. *Annals of the New York Academy of Sciences*, **2007**, 1098, 504-9	6.5	35
31	Salivary proteome and its genetic polymorphisms. *Annals of the New York Academy of Sciences*, **2007**, 1098, 22-50	6.5	144
30	Microsensor arrays for saliva diagnostics. *Annals of the New York Academy of Sciences*, **2007**, 1098, 389-400	6.5	33
29	Identification of protein components in in vivo human acquired enamel pellicle using LC-ESI-MS/MS. *Journal of Proteome Research*, **2007**, 6, 2152-60	5.6	126
28	Saliva: a dynamic proteome. *Journal of Dental Research*, **2007**, 86, 680-93	8.1	218
27	Salivary histatins in human deep posterior lingual glands (of von Ebner). *Archives of Oral Biology*, **2006**, 51, 967-73	2.8	18
26	Oral fluid proteolytic effects on histatin 5 structure and function. *Archives of Oral Biology*, **2006**, 51, 1061-70	2.8	63
25	Roles of cellular respiration, CgCDR1, and CgCDR2 in Candida glabrata resistance to histatin 5. *Antimicrobial Agents and Chemotherapy*, **2006**, 50, 1100-3	5.9	20
24	The concomitant expression and availability of conventional and alternative, cyanide-insensitive, respiratory pathways in Candida albicans. *Mitochondrion*, **2005**, 5, 200-11	4.9	38
23	A hypomorphic allele of the first N-glycosylation gene, ALG7, causes mitochondrial defects in yeast. *Biochimica Et Biophysica Acta - General Subjects*, **2005**, 1723, 33-44	4	17
22	Candida glabrata is unusual with respect to its resistance to cationic antifungal proteins. *Yeast*, **2005**, 22, 705-14	3.4	49
21	Immunocytochemical localization of histatins in human salivary glands. *Journal of Histochemistry and Cytochemistry*, **2004**, 52, 361-70	3.4	33
20	Dialysis unmasks the fungicidal properties of glandular salivary secretions. *Infection and Immunity*, **2004**, 72, 2703-9	3.7	14
19	Identification of in vivo pellicle constituents by analysis of serum immune responses. *Journal of Dental Research*, **2004**, 83, 60-4	8.1	33

18	Identification of early microbial colonizers in human dental biofilm. *Journal of Applied Microbiology*, **2004**, 97, 1311-8	4.7	299
17	Human salivary gland-specific daily variations in histatin concentrations determined by a novel quantitation technique. *Archives of Oral Biology*, **2004**, 49, 11-22	2.8	37
16	Statherin is an in vivo pellicle constituent: identification and immuno-quantification. *Archives of Oral Biology*, **2004**, 49, 379-85	2.8	41
15	Histatin-derived peptides: potential agents to treat localised infections. *Expert Opinion on Emerging Drugs*, **2002**, 7, 47-59	3.7	14
14	Characterization of the mitochondrial respiratory pathways in Candida albicans. *Biochimica Et Biophysica Acta - Bioenergetics*, **2002**, 1556, 73-80	4.6	70
13	Effects of histatin 5 and derived peptides on Candida albicans. *Biochemical Journal*, **2001**, 356, 361-368	3.8	82
12	Killing of Candida albicans by histatin 5: cellular uptake and energy requirement. *Antonie Van Leeuwenhoek*, **2001**, 79, 297-309	2.1	53
11	Salivary histatin 5 is an inhibitor of both host and bacterial enzymes implicated in periodontal disease. *Infection and Immunity*, **2001**, 69, 1402-8	3.7	90
10	Characterization of histatin 5 with respect to amphipathicity, hydrophobicity, and effects on cell and mitochondrial membrane integrity excludes a candidacidal mechanism of pore formation. *Journal of Biological Chemistry*, **2001**, 276, 5643-9	5.4	72
9	Antimicrobial peptides: properties and applicability. *Biological Chemistry*, **2001**, 382, 597-619	4.5	242
8	A new method for the isolation of histatins 1, 3, and 5 from parotid secretion using zinc precipitation. *Protein Expression and Purification*, **2001**, 23, 198-206	2	37
7	Effects of histatin 5 and derived peptides on Candida albicans. *Biochemical Journal*, **2001**, 356, 361-8	3.8	60
6	Synergistic effects of low doses of histatin 5 and its analogues on amphotericin B anti-mycotic activity. *Antonie Van Leeuwenhoek*, **2000**, 78, 163-9	2.1	29
5	Amphotericin B- and fluconazole-resistant Candida spp., Aspergillus fumigatus, and other newly emerging pathogenic fungi are susceptible to basic antifungal peptides. *Antimicrobial Agents and Chemotherapy*, **1999**, 43, 702-4	5.9	116
4	The effects of histatin-derived basic antimicrobial peptides on oral biofilms. *Journal of Dental Research*, **1999**, 78, 1245-50	8.1	51
3	The cellular target of histatin 5 on Candida albicans is the energized mitochondrion. *Journal of Biological Chemistry*, **1999**, 274, 7286-91	5.4	210
2	A critical comparison of the hemolytic and fungicidal activities of cationic antimicrobial peptides. *FEBS Letters*, **1999**, 449, 105-10	3.8	101
1	Synthetic histatin analogues with broad-spectrum antimicrobial activity. *Biochemical Journal*, **1997**, 326 (Pt 1), 39-45	3.8	147