

Eva Helmerhorst

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Identification of early microbial colonizers in human dental biofilm. <i>Journal of Applied Microbiology</i> , 2004 , 97, 1311-8 | 4.7 | 299 |
| 70 | Antimicrobial peptides: properties and applicability. <i>Biological Chemistry</i> , 2001 , 382, 597-619 | 4.5 | 242 |
| 69 | Saliva: a dynamic proteome. <i>Journal of Dental Research</i> , 2007 , 86, 680-93 | 8.1 | 218 |
| 68 | The cellular target of histatin 5 on <i>Candida albicans</i> is the energized mitochondrion. <i>Journal of Biological Chemistry</i> , 1999 , 274, 7286-91 | 5.4 | 210 |
| 67 | Synthetic histatin analogues with broad-spectrum antimicrobial activity. <i>Biochemical Journal</i> , 1997 , 326 (Pt 1), 39-45 | 3.8 | 147 |
| 66 | Salivary proteome and its genetic polymorphisms. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1098, 22-50 | 6.5 | 144 |
| 65 | Identification of protein components in in vivo human acquired enamel pellicle using LC-ESI-MS/MS. <i>Journal of Proteome Research</i> , 2007 , 6, 2152-60 | 5.6 | 126 |
| 64 | Amphotericin B- and fluconazole-resistant <i>Candida</i> spp., <i>Aspergillus fumigatus</i> , and other newly emerging pathogenic fungi are susceptible to basic antifungal peptides. <i>Antimicrobial Agents and Chemotherapy</i> , 1999 , 43, 702-4 | 5.9 | 116 |
| 63 | A general enhancement of autonomic and cortisol responses during social evaluative threat. <i>Psychosomatic Medicine</i> , 2009 , 71, 877-85 | 3.7 | 106 |
| 62 | A critical comparison of the hemolytic and fungicidal activities of cationic antimicrobial peptides. <i>FEBS Letters</i> , 1999 , 449, 105-10 | 3.8 | 101 |
| 61 | Salivary histatin 5 is an inhibitor of both host and bacterial enzymes implicated in periodontal disease. <i>Infection and Immunity</i> , 2001 , 69, 1402-8 | 3.7 | 90 |
| 60 | Effects of histatin 5 and derived peptides on <i>Candida albicans</i> . <i>Biochemical Journal</i> , 2001 , 356, 361-368 | 3.8 | 82 |
| 59 | Identification of <i>Rothia</i> bacteria as gluten-degrading natural colonizers of the upper gastro-intestinal tract. <i>PLoS ONE</i> , 2011 , 6, e24455 | 3.7 | 81 |
| 58 | Fiber-optic microsphere-based antibody array for the analysis of inflammatory cytokines in saliva. <i>Analytical Chemistry</i> , 2009 , 81, 2106-14 | 7.8 | 79 |
| 57 | Characterization of histatin 5 with respect to amphipathicity, hydrophobicity, and effects on cell and mitochondrial membrane integrity excludes a candidacidal mechanism of pore formation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 5643-9 | 5.4 | 72 |
| 56 | Characterization of the mitochondrial respiratory pathways in <i>Candida albicans</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002 , 1556, 73-80 | 4.6 | 70 |
| 55 | The cultivable human oral gluten-degrading microbiome and its potential implications in coeliac disease and gluten sensitivity. <i>Clinical Microbiology and Infection</i> , 2013 , 19, E386-94 | 9.5 | 69 |

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| 54 | Whole-saliva proteolysis and its impact on salivary diagnostics. <i>Journal of Dental Research</i> , 2011 , 90, 1328-30 | 68 |
| 53 | Proteome of human minor salivary gland secretion. <i>Journal of Dental Research</i> , 2008 , 87, 445-50 | 8.1 68 |
| 52 | Discovery of a novel and rich source of gluten-degrading microbial enzymes in the oral cavity. <i>PLoS ONE</i> , 2010 , 5, e13264 | 3.7 65 |
| 51 | Oral fluid proteolytic effects on histatin 5 structure and function. <i>Archives of Oral Biology</i> , 2006 , 51, 1061-70 | 1.80 63 |
| 50 | Concentration and fate of histatins and acidic proline-rich proteins in the oral environment. <i>Archives of Oral Biology</i> , 2009 , 54, 345-53 | 2.8 61 |
| 49 | Multiple components contribute to ability of saliva to inhibit influenza viruses. <i>Oral Microbiology and Immunology</i> , 2009 , 24, 18-24 | 60 |
| 48 | Effects of histatin 5 and derived peptides on <i>Candida albicans</i> . <i>Biochemical Journal</i> , 2001 , 356, 361-8 | 3.8 60 |
| 47 | 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. <i>Clinical Chemistry</i> , 2008 , 54, 1473-80 | 5.5 59 |
| 46 | Identification of Lys-Pro-Gln as a novel cleavage site specificity of saliva-associated proteases. <i>Journal of Biological Chemistry</i> , 2008 , 283, 19957-66 | 5.4 55 |
| 45 | Evidence of intact histatins in the in vivo acquired enamel pellicle. <i>Journal of Dental Research</i> , 2010 , 89, 626-30 | 8.1 53 |
| 44 | Killing of <i>Candida albicans</i> by histatin 5: cellular uptake and energy requirement. <i>Antonie Van Leeuwenhoek</i> , 2001 , 79, 297-309 | 2.1 53 |
| 43 | Uncovering the molecular networks in periodontitis. <i>Proteomics - Clinical Applications</i> , 2014 , 8, 748-61 | 3.1 51 |
| 42 | The effects of histatin-derived basic antimicrobial peptides on oral biofilms. <i>Journal of Dental Research</i> , 1999 , 78, 1245-50 | 8.1 51 |
| 41 | Kinetics of histatin proteolysis in whole saliva and the effect on bioactive domains with metal-binding, antifungal, and wound-healing properties. <i>FASEB Journal</i> , 2009 , 23, 2691-701 | 0.9 50 |
| 40 | <i>Candida glabrata</i> is unusual with respect to its resistance to cationic antifungal proteins. <i>Yeast</i> , 2005 , 22, 705-14 | 3.4 49 |
| 39 | Statherin is an in vivo pellicle constituent: identification and immuno-quantification. <i>Archives of Oral Biology</i> , 2004 , 49, 379-85 | 2.8 41 |
| 38 | Large-scale phosphoproteome of human whole saliva using disulfide-thiol interchange covalent chromatography and mass spectrometry. <i>Analytical Biochemistry</i> , 2010 , 407, 19-33 | 3.1 39 |
| 37 | The concomitant expression and availability of conventional and alternative, cyanide-insensitive, respiratory pathways in <i>Candida albicans</i> . <i>Mitochondrion</i> , 2005 , 5, 200-11 | 4.9 38 |

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| 36 | Human salivary gland-specific daily variations in histatin concentrations determined by a novel quantitation technique. <i>Archives of Oral Biology</i> , 2004 , 49, 11-22 | 2.8 | 37 |
| 35 | A new method for the isolation of histatins 1, 3, and 5 from parotid secretion using zinc precipitation. <i>Protein Expression and Purification</i> , 2001 , 23, 198-206 | 2 | 37 |
| 34 | Acquired enamel pellicle and its potential role in oral diagnostics. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1098, 504-9 | 6.5 | 35 |
| 33 | Microsensor arrays for saliva diagnostics. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1098, 389-405 | 6.5 | 33 |
| 32 | Immunocytochemical localization of histatins in human salivary glands. <i>Journal of Histochemistry and Cytochemistry</i> , 2004 , 52, 361-70 | 3.4 | 33 |
| 31 | Identification of in vivo pellicle constituents by analysis of serum immune responses. <i>Journal of Dental Research</i> , 2004 , 83, 60-4 | 8.1 | 33 |
| 30 | Identification of Pseudolysin (lasB) as an Aciduric Gluten-Degrading Enzyme with High Therapeutic Potential for Celiac Disease. <i>American Journal of Gastroenterology</i> , 2015 , 110, 899-908 | 0.7 | 29 |
| 29 | Synergistic effects of low doses of histatin 5 and its analogues on amphotericin B anti-mycotic activity. <i>Antonie Van Leeuwenhoek</i> , 2000 , 78, 163-9 | 2.1 | 29 |
| 28 | Salivary Gluten Degradation and Oral Microbial Profiles in Healthy Individuals and Celiac Disease Patients. <i>Applied and Environmental Microbiology</i> , 2017 , 83, | 4.8 | 28 |
| 27 | Activity-based mass spectrometric characterization of proteases and inhibitors in human saliva. <i>Proteomics - Clinical Applications</i> , 2009 , 3, 810-820 | 3.1 | 25 |
| 26 | The complexity of oral physiology and its impact on salivary diagnostics. <i>Oral Diseases</i> , 2018 , 24, 363-371 | 3.5 | 21 |
| 25 | Gluten Degrading Enzymes for Treatment of Celiac Disease. <i>Nutrients</i> , 2020 , 12, | 6.7 | 21 |
| 24 | Saliva and Serum Protein Exchange at the Tooth Enamel Surface. <i>Journal of Dental Research</i> , 2017 , 96, 437-443 | 8.1 | 20 |
| 23 | Mass spectrometric identification of key proteolytic cleavage sites in statherin affecting mineral homeostasis and bacterial binding domains. <i>Journal of Proteome Research</i> , 2010 , 9, 5413-21 | 5.6 | 20 |
| 22 | Roles of cellular respiration, CgCDR1, and CgCDR2 in <i>Candida glabrata</i> resistance to histatin 5. <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 1100-3 | 5.9 | 20 |
| 21 | Effect of <i>Rothia mucilaginosa</i> enzymes on gliadin (gluten) structure, deamidation, and immunogenic epitopes relevant to celiac disease. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 307, G769-76 | 5.1 | 19 |
| 20 | Salivary histatins in human deep posterior lingual glands (of von Ebner). <i>Archives of Oral Biology</i> , 2006 , 51, 967-73 | 2.8 | 18 |
| 19 | Whole saliva proteolysis: wealth of information for diagnostic exploitation. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1098, 454-60 | 6.5 | 17 |

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| 18 | A hypomorphic allele of the first N-glycosylation gene, ALG7, causes mitochondrial defects in yeast. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005 , 1723, 33-44 | 4 | 17 |
| 17 | Influence of histatin 5 on <i>Candida albicans</i> mitochondrial protein expression assessed by quantitative mass spectrometry. <i>Journal of Proteome Research</i> , 2011 , 10, 646-55 | 5.6 | 16 |
| 16 | The diagnostic potential of salivary protease activities in periodontal health and disease. <i>Oral Diseases</i> , 2013 , 19, 781-8 | 3.5 | 14 |
| 15 | Dialysis unmasks the fungicidal properties of glandular salivary secretions. <i>Infection and Immunity</i> , 2004 , 72, 2703-9 | 3.7 | 14 |
| 14 | Histatin-derived peptides: potential agents to treat localised infections. <i>Expert Opinion on Emerging Drugs</i> , 2002 , 7, 47-59 | 3.7 | 14 |
| 13 | Identification of food-grade subtilisins as gluten-degrading enzymes to treat celiac disease. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, G571-80 | 5.1 | 12 |
| 12 | Nanoscale adhesion forces between enamel pellicle proteins and hydroxyapatite. <i>Journal of Dental Research</i> , 2014 , 93, 514-9 | 8.1 | 11 |
| 11 | Experimental Strategy to Discover Microbes with Gluten-degrading Enzyme Activities. <i>Proceedings of SPIE</i> , 2014 , 9112, | 1.7 | 10 |
| 10 | A Role for Salivary Peptides in the Innate Defense Against Enterotoxigenic <i>Escherichia coli</i> . <i>Journal of Infectious Diseases</i> , 2018 , 217, 1435-1441 | 7 | 8 |
| 9 | Anti-candidal activity of genetically engineered histatin variants with multiple functional domains. <i>PLoS ONE</i> , 2012 , 7, e51479 | 3.7 | 8 |
| 8 | Pharmaceutically modified subtilisins withstand acidic conditions and effectively degrade gluten in vivo. <i>Scientific Reports</i> , 2019 , 9, 7505 | 4.9 | 7 |
| 7 | Direct assessment of the antioxidant property of salivary histatin. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2019 , 65, 217-222 | 3.1 | 7 |
| 6 | Salivary proline-rich proteins and gluten: Do structural similarities suggest a role in celiac disease?. <i>Proteomics - Clinical Applications</i> , 2015 , 9, 953-64 | 3.1 | 6 |
| 5 | 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. <i>Journal of Separation Science</i> , 2014 , 37, 1896-902 | 3.4 | 6 |
| 4 | Commensal Bacterium Degrades and Detoxifies Gluten via a Highly Effective Subtilisin Enzyme. <i>Nutrients</i> , 2020 , 12, | 6.7 | 5 |
| 3 | Despite sequence homologies to gluten, salivary proline-rich proteins do not elicit immune responses central to the pathogenesis of celiac disease. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 309, G910-7 | 5.1 | 4 |
| 2 | Direct evaluation of the antioxidant properties of salivary proline-rich proteins. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2020 , 67, 131-136 | 3.1 | 2 |
| 1 | The antifungal activity of human parotid secretion is species-specific. <i>Medical Mycology</i> , 2011 , 49, 218-219 | 3.9 | 1 |

