

The Human Salivary Proteome Wiki: A Community-Driven Research Platform

Authors: William W. Lau, Markus Hardt, Yanhui H. Zhang, Marcelo Freire, and Stefan Ruhl

Appendix Table 1. Sources and description of datasets that have been deposited into the HSP Wiki repository

Institution	Experiment	Secretion	Healthy/Disease	Dataset Count	Publication ^a
Forsyth Institute	MS ^b	Major glands	Healthy	36	Schulte <i>et al.</i>
J. Craig Venter Institute	MS	Whole Saliva	Healthy/Oral Cancer	30	Lin <i>et al.</i>
Scripps Research Institute (HSPP^c)	MS	Major glands	Healthy	2	Denny <i>et al.</i>
University at Buffalo	2-D PAGE ^d	Major glands/ Whole Saliva	Healthy	3	Walz <i>et al.</i>
University Medicine Greifswald	MS	Whole Saliva	Healthy	206	Murr <i>et al.</i>
University of California, Los Angeles (HSPP)	MS	Major glands	Healthy	467	Denny <i>et al.</i>
University of California, San Francisco	MS	Whole Saliva	Sjögren's Syndrome	7	Hall <i>et al.</i>
University of California, San Francisco (HSPP)	MS	Major glands	Healthy	87	Denny <i>et al.</i>

^aSee Appendix References; ^bMS, Mass Spectrometry; ^cHSPP, Participant in the Human Salivary Proteome Project; ^d2-D PAGE, Two-dimensional SDS polyacrylamide gel electrophoresis.

Appendix Table 2. Individual elements comprising a protein annotation

Field	Label	Required	Description
Subject	Protein	Yes	The protein being annotated
Annotation Type	Feature key	Yes	Aspect of the protein being annotated choosing from one of the options adopted from the UniProt framework
Description		No	The annotation value using either free-text or terms from ontologies, such as GO or KEGG
Evidence Code		Yes	A code that indicates whether the annotation is inferred experimental results, computational analysis, or expert opinions
Evidence References		No	One or more literature references from which the annotation is derived
Scope	Variant	No	A specific sequence, if applicable, to which the annotation applies
Start Position	Starts at	No	An integer that specifies the starting position of the sequence region being annotated
End Position	Ends at	No	An integer that specifies the end position of the sequence region being annotated
Annotation Source	Reported by	Yes	The knowledge base, algorithm used, or the person who contributed the annotation

Appendix References

Schulte F, Hasturk H, Hardt M. 2019. Mapping Relative Differences in Human Salivary Gland Secretions by Dried Saliva Spot Sampling and nanoLC-MS/MS. *Proteomics*. 19(20):e1900023.

Lin Y-H, Eguez RV, Torralba MG, Singh H, Golusinski P, Golusinski W, Masternak M, Nelson KE, Freire M, Yu Y. 2019. Self-Assembled STrap for Global Proteomics and Salivary Biomarker Discovery. *J Proteome Res*. 18(4):1907–1915.

Walz A, Stühler K, Wattenberg A, Hawranke E, Meyer HE, Schmalz G, Blüggel M, Ruhl S. 2006. Proteome analysis of glandular parotid and submandibular-sublingual saliva in comparison to whole human saliva by two-dimensional gel electrophoresis. *Proteomics*. 6(5):1631–1639.

Murr A, Pink C, Hammer E, Michalik S, Dhople VM, Holtfreter B, Völker U, Kocher T, Gesell Salazar M. 2017. Cross-Sectional Association of Salivary Proteins with Age, Sex, Body Mass Index, Smoking, and Education. *J Proteome Res*. 16(6):2273–2281.

Hall SC, Hassis ME, Williams KE, Albertolle ME, Prakobphol A, Dykstra AB, Laurance M, Ona K, Niles RK, Prasad N, et al. 2017. Alterations in the Salivary Proteome and N-Glycome of Sjögren's Syndrome Patients. *J Proteome Res*. 16(4):1693–1705.

Denny P, Hagen FK, Hardt M, Liao L, Yan W, Arellanno M, Bassilian S, Bedi GS, Boontheung P, Cociorva D, et al. 2008. The proteomes of human parotid and submandibular/sublingual gland salivas collected as the ductal secretions. *J Proteome Res.* 7(5):1994–2006.