SDM's Dr. Stefan Ruhl Leads the Development of the Human Salivary Proteome Wiki

Dr. Stefan Ruhl, Professor, Department of Oral Biology
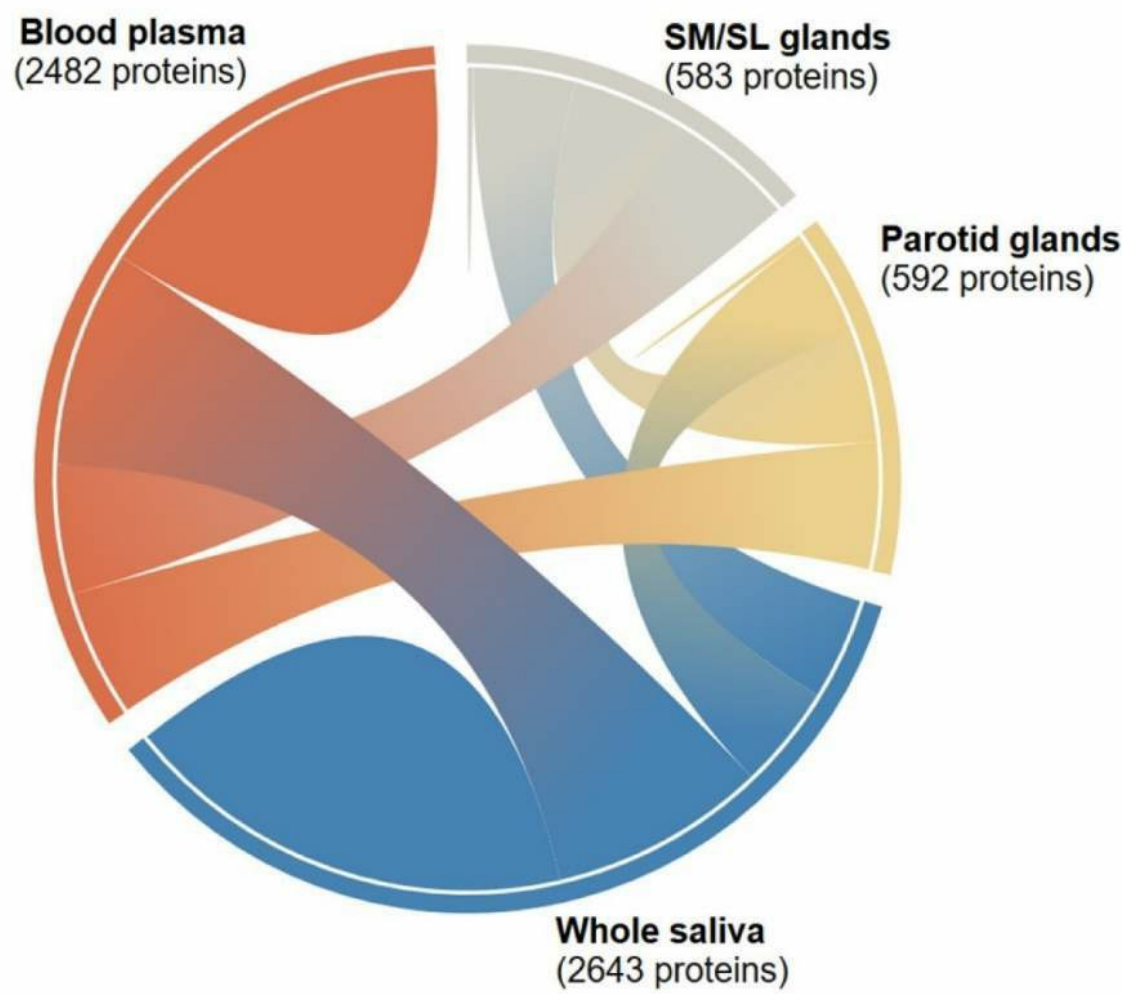
By Marcene Robinson

Database curates info on inner workings of saliva, an attractive tool for noninvasive diagnostics and precision medicine

To improve the development of new saliva-based diagnostic tests and personalized medicine, the National Institute of Dental and Craniofacial Research (NIDCR) has supported the development of the Human Salivary Proteome Wiki, the first public platform that catalogs and curates data on each of the thousands of proteins within our saliva.

Detailed in an article published on Tuesday, May 25 in the Journal of Dental Research, the wiki provides researchers and clinicians with rich, unbiased evidence from multiple independent studies to help explore the dynamic and complex nature of saliva, as well as analytical tools to search for data by tissue type, disease and more.

"This community-based data and knowledge base will pave the way to harness the full potential of the salivary proteome for diagnosis, risk prediction, and therapy for oral and systemic diseases, and increase preparedness for future emerging diseases and pandemics," says Stefan Ruhl, DDS, PhD, lead investigator of the study, curator of the Human Salivary Proteome Wiki, and professor of oral biology in the University at Buffalo School of Dental Medicine.

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A diagram that shows the interconnectedness of the thousands of salivary proteins originating from blood plasma, parotid glands, and submandibular and sublingual glands. The diagram is one of many tools available to researchers and clinicians through the Human Salivary Proteome Wiki.

If you have any news you would like to share, please contact Kelli at natale@buffalo.edu.

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