We are all different. Even when we look at saliva!

Saliva has increasingly been used as a diagnostic fluid since it is easier to collect and process than blood and it has similar diagnostic capabilities. Total protein profiles can be obtained from saliva by capillary electrophoresis and a total protein profile called SalivaPRINT is produced.

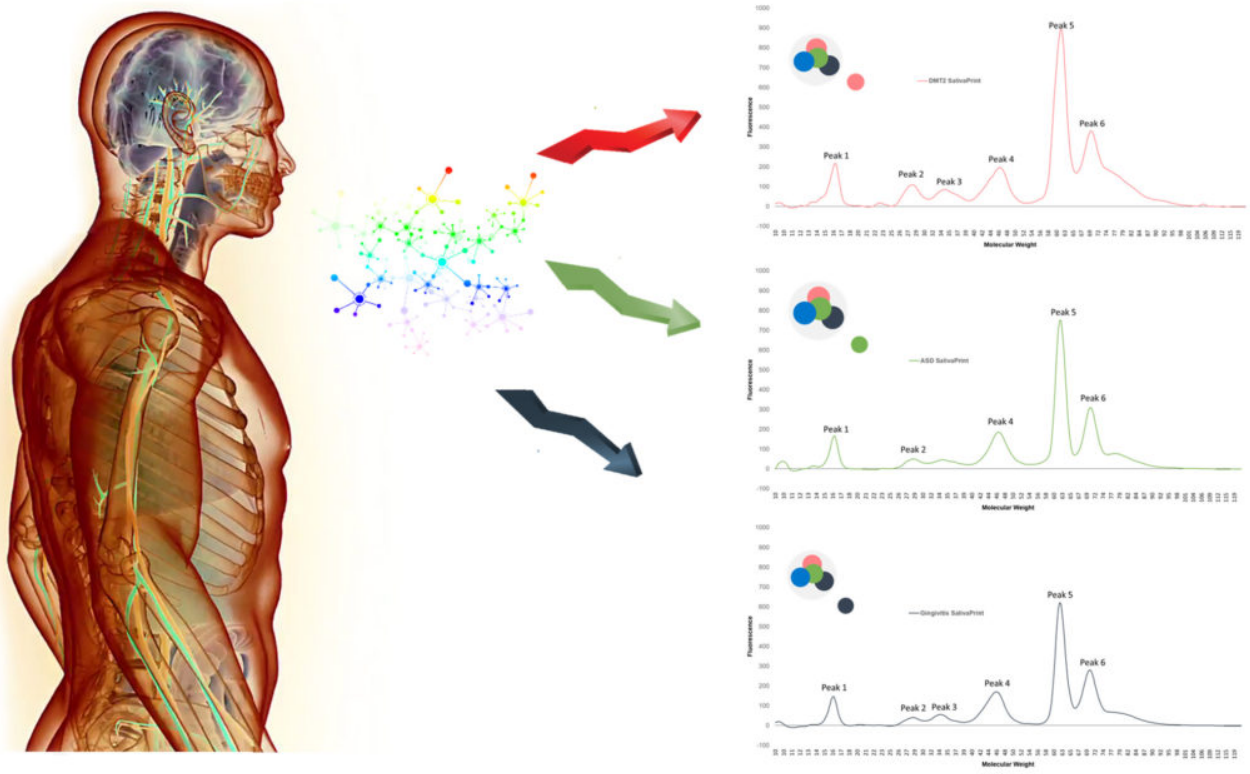

Fig. 1. Information obtained in a total protein electrophoretic profile from saliva: SalivaPrint. A) Individual profiles can be combined to obtain a typical profile. B) Typical profiles from different conditions can be compared. C) Individual profiles can be distinguished from the typical profile for each condition.

In this work we present the SalivaPRINT Toolkit which provides an algorithm to compare individual total salivary protein profiles. If a large number of profiles from different individuals with a particular condition is used, the establishment of a profile for each condition may be obtained and the recognition of whether the individual profile matches that of the group can be done.

The power of using SalivaPRINT Toolkit as a protein profile analysis tool relies on the fact that the information of a large number of profiles is analyzed simultaneously and large amounts of data are accounted for, providing a first approach to patient stratification according to physiological state.

The great impact of this knowledge is that it is possible to rapidly produce individual profiles in a cost effective manner giving the user and health care provider with important information for health monitoring and disease management.

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Publication

SalivaPRINT Toolkit - Protein profile evaluation and phenotype stratification.
Cruz I, Esteves E, Fernandes M, Rosa N, Correia MJ, Arrais JP, Barros M
J Proteomics. 2018 Jan 16