Preliminary Investigation on Salivary Profiling of Filipino Women Using High Performance Liquid Chromatography

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Abstract: Saliva is a complex and dynamic biological fluid which performs many different functions in the oral cavity. But as new technology arises, many more compounds can be identified in saliva such as pollutants, hormones, drugs and biomarkers. Thus, saliva was used as a potential media for metabolomics study in cancer research. In this study, high performance liquid chromatography (HPLC) was used to analyse the saliva samples from several Filipino women. A baseline metabolomic profile from 24 healthy individuals was created and 42 peaks were separated from the salivary samples. The concentrations, retention times and peak areas of the 42 separated peaks were also established. Furthermore, the optimization of salivary sample preparation and analysis were done for the use of High performance Liquid Chromatography.

Key Words: salivary profiling; metabolomics; biomarkers; high performance liquid chromatography