

## **RESEARCH AND APPLICATION OF MASS SPECTROMETRY MULTI OMICS COMBINED WITH POLYSACCHARIDES ANALYSIS TECHNOLOGY IN FRUITS AND VEGETABLES**

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In our daily diet, fruits and vegetables are very important sources of sugar and dietary fiber. With the economic development, the consumption demand of tropical fruits is increasing in China. The nutritional composition, especially the unique functions of tropical fruit polysaccharides, has become a research hotspot in related fields. Structural characterization, physicochemical properties and in vivo activity of polysaccharides should be comprehensive analyzed, which can provide scientific basis for the assessment of the economic value of tropical fruits and guidance for consumption, or the development of their functional products. With years of experience in the field of polysaccharides, a comprehensive set of polysaccharide research programs and a wealth of project experience, Shanghai sanshu Biotechnology can assist researchers to carry out a full set of experiments from polysaccharide extraction, structural analysis to in vivo activity research, and assisted by multi-omics means, comprehensive in vitro and in vivo polysaccharide conformational relationship research, to help the in-depth study of tropical fruits.

Keywords: tropical fruits , polysaccharides, physicochemical, multiomics