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(54) **Title**: SERUM-BASED BIOMARKERS OF PANCREATIC CANCER AND USES THEREOF FOR DISEASE DETECTION AND DIAGNOSIS

(57) **Abstract**: Biomarkers of pancreatic cancer are described, as well as methods using these compounds for detecting pancreatic cancer. The methods can be used to diagnose a patient's health state, or change in health state, or for diagnosing risk of developing or the presence of pancreatic cancer. The method comprises analyzing a sample from a patient to obtain quantifying data for one or more than one of the metabolite markers; comparing the quantifying data to corresponding data obtained for one or more than one reference sample to identify abnormalities in the level of the metabolite marker(s) in the sample; and making a diagnosis if an abnormality is observed. Standards and kits for carrying out the method are also described.