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Title (English) Optimization of the multiplexed Proximity Ligation Assay for detection of blood-based biomarkers		
Title (Swedish)		
Abstract <p>The Proximity Ligation Assay (PLA) is a relatively new method which utilizes the strength of both immunoassays and DNA detection. PLA has the capacity of high multiplexing due to the high specificity achieved with both dual protein-binding and dual primer binding during detection with Real-Time PCR. We developed a multiplexed PLA protocol that can measure 28 biomarkers in human EDTA plasma. The method was tested on 46 individuals diagnosed with colorectal cancer and 48 age matched healthy controls. The results are very promising as we re-discover the most well-known biomarkers for colorectal cancer and also find some potential new markers (significance tested with students T-test with $p < 0.05$). Further improvements of the protocol are needed to decrease the variation.</p>		
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