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Author	Somar Al-walai	
Title (English)	Optimisation of HaloPlex PCR technology for low input DNA resequencing	
Title (Swedish)	-	
Abstract	<p>A great future application for targeted resequencing is diagnostics for which the amount of isolated DNA are typically very low, such as after a biopsy. A difficulty is that cancer cells are mixed with normal cells so the frequency of mutation by sequencing is often low. Therefore, a more sensitive method is needed to avoid missing any information and to be able to distinguish sequencing errors from actual mutations. In this study, I have developed and optimised a new faster version of the HaloPlex Target enrichment technique that allows the implementation of molecular barcodes used to increase the sensitivity for rare alleles and reduce errors in sequencing data.</p>	
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