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Title (English) Analyses of Gene Expression Patterns in Colon Cancer Patients	
Title (Swedish)	
Abstract <p>The aim of this project was to investigate if any differences in the gene expression pattern between colon cancer patients with mutations in certain codons in BRAF, KRAS and PIK3CA could be detected. The samples were classified as mutated or wild type with a support vector machine and either of two feature selection setups, ANOVA or a combination of ANOVA and genetic algorithm.</p> <p>Differences in the gene expression pattern were found in BRAF and PIK3CA, both between the mutated and wild type patients and between the different Dukes' stages in the mutated samples.</p>	
Keywords ANOVA, Bioinformatics, Dukes' stage, Genetic Algorithm, Support vector machine	
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