

عنوان مقاله:

Bioinformatics analysis of gene expression profiling for identification of key proteins associated with non_alcoholic fatty liver disease

محل انتشار:

اولین همایش بین المللی و دهمین همایش ملی بیوانفورماتیک ایران (سال: 1400)

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خلاصه مقاله:

Introduction: Non-alcoholic fatty liver disease (NAFLD) is a condition in which triglycerides accumulatein the liver cells of people who have no history of alcohol use. Damage to liver cells such as apoptosis, necrosis, inflammation and then fibrosis are features of this disease.. The importance of this disease is due tothe destruction of liver cells, which is known as one of the most common and important causes of cirrhosisand liver failure in the world. Its prevalence in the general population in different countries is about ٣-٢۵%, and in the general population of iran is about ٢.٩-٧.١%, and in diabetics is about ΔΔ.λ%. this statistic isincreasing due to lifestyle changes. Methods: By visiting the Geo site, the raw micro data was downloaded with the access code GSEA98TY. Using GEOYR online software, genes with different expression (DEGs) were selected in two cases of fattyliver disease, in cluding: simple steotitis and non- alcoholic steatohepatitis due to their significance. Enrichment analysis of altered gene groups for cell pathway and processes associated with nonalcoholic fattyliver disease was performed using the metascape web server and the construction of a protein interactionnetwork (PPI). Key genes and proteins involved in NAFLD were also identified using string, cytoscape andcentiscape software. Results: 1F important and key expressed mutation genes between healthy and diseased groups in twodifferent cases of non-alcoholic fatty liver disease, using protein-protein interaction network (PPI) and namerelatedsoftware known as: TYMS ASPM MYC ,ILF, VEGFA ,JUN ,ILIB ,FOS ,TLRY,ILIO ,CXCLA CDff, MMP9 and also obtained similar cellular pathways and processes related to NAFLD is drawn below.Conclusion: The present study shows that some important genes and pathways may be associated with theoccurrence and progression of NAFLD disease. Important biomarkers for prevention, treatment and .newtherapeutic goals were identified in this study

كلمات كليدى:

Non-alcoholic fatty liver disease, microarray technique, protein interaction network, gene expression pattern

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