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عنوان مقاله:

Assessment of Cytokine-Mediated Signaling Pathway Dysregulation in Arm Skin After COT Laser Therapy

محل انتشار:

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نویسندگان:

Mohammad Rostami-Nejad

Mostafa Rezaei-Tavirani

Mohammad-Mehdi Zadeh-Esmaeel Sina Rezaei-Tavirani

Zahra Akbari

Somayeh Esmaeili Farshad Okhovatian

خلاصه مقاله:

Abstract Introduction: Laser therapy is known as an efficient approach in dermatology surgery. COY laser therapy is a gold standard treatment in skin surgery. This study aimed to evaluate the interferons change after COY laser surgeryMethods: Significant differentially-expressed genes (DEGs) of arm skin after V days of treatment by the COY laser relative to the controls are downloaded from Gene Expression Omnibus (GEO) and are included in the protein-protein interaction network via a STRING database (an application of Cytoscape software). The central DEGs were identified and enriched via gene ontology by using Clue GO software. Results: A network including VA DEGs and V·· neighbors was constructed and STATV, MXV, ISGVA, OASV, IFITV, IRFA, OASL, OASY, and RSADY as hubs and STATV, PTPRC, MXV, IRFA, ISGVA, ILF, RORC, SAMSNV, and IFITV as bottlenecks were introduced. The cytokine-mediated signaling pathway, interferon gamma signaling, hepatitis C, interferon alpha/beta signaling, and the type I interferon signaling pathway were identified as five clusters of biological terms which are related to the central nodes. Conclusion: It can be concluded that the cytokine-mediated signaling pathway is the major pathway that is dysregulated after laser application in the treated skin. Keywords: Laser COY Skin Interferon Gene Network

كلمات كليدى:

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