

عنوان مقاله:

Radiation Therapy in Patients With Brain Cancer : Post-proteomics Interpretation

محل انتشار:

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تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

Abstract Introduction : Radiation Therapy (RT) as a common method for cancer treatment could conclude in some side effects. Molecular investigation is one of the approaches that could assist in decrypting the molecular mechanisms of this incident. For this aim, protein-protein interaction network analysis as a complementary study of proteome is applied to explore the RT effect on brain cancer effect after the early stage of exposure prior to skin lesion appears. **Methods :** Cytoscape ۳.۷.۲ and its plug-ins analyzed the network of DEPs in the treatment condition and the centrality and pathway enrichments were conducted by the use of NetworkAnalyzer and ClueGO+CluePedia. **Results :** A network of ۱۵ DEPs indicated that six nodes are key players in the network stability and SERPINC1 and F5 are from the query proteins. Pathways of post-translational protein phosphorylation, Platelet degranulation, and Complement and coagulation cascades are the most highlighted ones for the central nodes that could be affected in radiation therapy. **Conclusion :** The central proteins of the network of early stage treatments could have additional importance in the mechanisms of radiotherapy response prior to skin lesions. These candidates worth precise attention for this type of therapy after approving by validation studies. **Keywords :** Radiation Therapy Protein-protein interaction network Analysis Gene ontology

کلمات کلیدی:

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