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A study of the mechanisms of cells apoptosis mediated through tissue factor- β 1-integrin complex formation

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β 1-integrin is a subunit of integrin complex, which belongs to transmembrane protein. β 1-integrin binds with tissue factors in ECM, leading to cell adhesion and proliferation. It has a role in platelets adhesion and aggregation with endothelial cells during haemostasis. However, hyperactivation of β 1-integrin involves in cancer spread and metastasis. In contrast, apoptosis can be induced by blocking β 1-integrin via switch Src1 activity, through activation of P38, MAPK and P53-mediated cell apoptosis. So, targeting β 1-integrin is important for developing anticancer drugs.

Biography

Faisal Alahaydib is pursuing MSc in Biomedical Sciences at Hull University, UK. His international experience includes various programs, contributions and participation in Clinical Laboratory Technology, Biotechnology and Lab Tech at Imam Muhammad ibn Saud University Medical Centre. His research interests reflect in his wide range of publications in various national and international journals.

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