

Protein Kinase C In Cancer Signaling And Therapy

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Protein kinase C (PKC), a family of serine-threonine kinases, rocketed to the forefront of the cancer research field in the early 1980 s with its identification as an effector of phorbol esters, natural products with tumor promoting activity. Phorbol esters had long been of interest to the cancer research field due to early studies in the mouse skin carcinogenesis model, which showed that prolonged topical application of phorbol esters promoted the formation of skin tumors on mice previously treated with mutagenic agents. Research in the last years has established key roles for PKC isozymes in the control of cell proliferation, migration, adhesion, and malignant transformation. In addition, there is a large body of evidence linking PKC to invasion and cancer cell metastasis. Moreover, it is now well established that the expression of PKC isozymes is altered in various types of cancers. More importantly, small molecule inhibitors have been developed with significant anti-cancer activity. The relevance of PKC isozymes in cancer signaling is therefore remarkable. EAN/ISBN : 9781607615439 Publisher(s): Springer, Berlin, Springer Science & Business Media Format: ePub/PDF Author(s): Kazanietz, Marcelo G.

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