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Targeting transcription factors by natural agents for cancer therapy

Signal Transducers and Activators of Transcription (STATs) comprise an important class of transcription factors that have been implicated in a wide variety of essential cellular functions related to proliferation, survival and angiogenesis. Among various STAT members, STAT3 is frequently overexpressed in tumor cells as well as tissue samples and regulates the expression of numerous oncogenic genes controlling the growth and metastasis of tumor cells. The importance of STAT3 as a potential target for cancer therapy and also provide novel insights into various pharmacological inhibitors of this transcription factor derived from Mother nature that can be potentially developed as anti-cancer drugs.

Biography

Gautam Sethi completed his Ph.D in cellular Immunology from Banaras Hindu University India. Dr. Sethi joined University of Texas MD Anderson Cancer Center, and worked in the area of inflammation and cancer research for his post-doctoral studies. He later joined National University of Singapore in 2008 as an Assistant Professor and is currently leading the Cancer Pharmacology program in the Department of Pharmacology.

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