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### **Multifaceted role of gamma tocotrienol in cancer therapy**

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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. This presentation briefly discusses the importance of STAT3 as a potential target for cancer therapy and also provides novel insights into various classes of existing pharmacological inhibitors of this transcription factor that can be potentially developed as anti-cancer drugs.

#### **Biography**

Gautam Sethi has completed his Postdoctoral training at University of Texas MD Anderson Cancer Center and then joined Department of Pharmacology, Yong Loo Lin School of Medicine, National University of Singapore in 2008 as an Assistant Professor and promoted to Associate Professor in 2015. The focus of his research over the past few years has been to elucidate the mechanism(s) of activation of oncogenic transcription factors such as NF-kB/STAT3 by carcinogens and inflammatory agents and the identification of novel inhibitors of these proteins for prevention of and therapy for cancer.

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