



Area of Interest and Expertise

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I am constantly involving in the research of development of new reactions that complement existing methods for the preparation of biologically active molecules. My research has mainly focused on synthesis and biological screening of anti-cancer, anti-diabetic, CNS depressant, hypnotic and sedative, analgesic, anti-inflammatory, anti-bacterial, antifungal and anti-viral agents etc. This interest has been especially directed towards anti-cancer pharmaceutical products because cancer is a leading cause of death worldwide and accounted for 7.6 million deaths and projected to continue to rise to over 13.1 million in 2030 as per WHO Cancer Fact sheet No 297, January 2013. To control the mortality of Cancer in developing countries, the discovery and development of new treatment is urgently needed due to problem with currently available treatment such as toxicities and drug resistance. Our research involves the synthesis and examination of structure-activity relationships on cancer drug targets such as epidermal growth factor receptor (EGFR)-TK and RAS etc., and the exploration of synthetic methodologies to prepare novel anti-cancer analogs. Moreover, the QSAR studies are also done to correlate the pharmacophore with anti-cancer activity. Recently the research is also focused to develop a safe drug candidate which will act against cancer stem cells.

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