MAJOR RESEARCH INTERESTS

Research in my laboratory concentrates on the molecular mechanisms leading to cancer cell death and survival and how the mechanisms can be modulated and targeted. The lab is located in the Genome Institute of Singapore, where we use integrative approach including genomics and large scale functional analysis to dissect the aberrant genetic and epigenetic process operating in human cancer.

Current projects include

1. Cancer epigenetic mechanisms in gene silencing in human cancer
2. Epigenetic drug development targeting histone modifications
3. Oncogenic kinase signalling and pharmacological modulation in human cancer
4. Transcription factor E2F1-induced apoptosis and its regulation by epigenetic process.

RECENT PUBLICATIONS

Xia Jiang, Jing Tan, Jingsong Li, Saul Kivimäe, Xiaojing Yang1 Li Zhuang, Puay Leng Lee, Mark TW. Chan, Lawrence Stanton, Edison T. Liu, Benjamin N.R.Cheyette and Qiang Yu. DACT3 is an epigenetic regulator of Wnt/β-catenin signaling in colorectal cancer and is a therapeutic target of histone modifications. Cancer Cell, June 9, 2008.


