GTR セミナー
アドバンス生命理学特論
Topics in Advanced Biological Science

Cancer Epigenetics, Metastasis, and Antitumor Immunity

Dr. Qin Yan

Associate Professor, Director, Epigenetics Program
Department of Pathology, Yale School of Medicine, USA

Epigenetic aberrations often lead to cancer and other human diseases. It has been well established that many epigenetic regulators control various processes of tumorigenesis, including metastasis and evasion of immunosurveillance. Among these epigenetic regulators, the KDM5/JARID1 histone demethylases are demethylases for tri-methylated lysine 4 in histone H3 (H3K4me3), the epigenetic mark for transcriptionally active chromatin. Using KDM5A/B knockout mouse models, we showed that loss of KDM5A or KDM5B inhibits tumorigenesis in several genetically engineered mouse models. In addition, we revealed novel mechanisms by which KDM5A/B contribute to tumor progression and metastasis. Furthermore, we identified potent small molecule KDM5 inhibitors that could be further developed for cancer treatment in the clinic.

日　時：11月5日（火）16:00-17:30
場　所：理学部E館　131室

連絡先：嘉村　巧　（内線 5546）