

**Chanyanuch Nakapakorn, Class 2024****Campus:** Baylor University Medical Center, Dallas, TX**Research Area:** Lymphatic liver tumor metastasis**Mentor:** Sanjukta Chakraborty, PhD**ORCID:** [0000-0002-9321-677X](https://orcid.org/0000-0002-9321-677X)**Launch Talks:** October 2021**Awards:** MRTA Awardee

Chanyanuch Nakapakorn, a medical student in the School of Medicine, is conducting a translational research project investigating liver tumor metabolism and metastasis under the guidance of [Sanjukta Chakraborty, PhD](#) Assistant Professor in the Department of Medical Physiology at the Texas A&M School of Medicine. The aggressivity of cancer metastasis is closely tied to patient's prognosis. Research shows that alterations in bioenergetics and mitochondrial gene expressions in cancer patients may promote tumor metastasis into lymph nodes. However, molecular mechanism of cancer metastasis remains poorly understood. Our project aims to evaluate clinical case reports and utilize various molecular tools, such as PCR, immunofluorescence and cell culture, to identify genetic alterations present in cancer patients to establish possible links to factors responsible for tumor cells invasion into lymphatic endothelial cells.