

A NEW CONCEPT IN CANCER SCREENING



GENZ specializes in several disciplines for understanding the behavior of cancer cells. More understanding of the genetic chaos behind cancer will enable doctors to be able to make better-informed decisions.

Our goal is to be a center for developing solutions to increase the efficiency in early detection of cancer occurrence, recurrence, metastasis, tumor subtype, and drug resistance. The center will be a production line for new hardware, software, and fluorescence probes for kits.



CELL FREE SCREENING

Cell-free DNA fragments created from cancer cells are strong biomarkers for early detection of metastasis. Detection and screening of cfDNA are one of the novel strategies for early detection of metastasis.



BIOPSY PROFILING

Thin layers extracted from tumor tissue is another important source for genetic screening. Genetic information from stage I-II tumor sample will give information about tumor sub-type, metastasis risk, and drug resistance of the patient.



CANCER CELL DETECTION

GENZ develops small microfluidic chips for cell separation from whole blood with 95% precision. These systems are used for detecting circulating cancer cells in the blood. GENZ also optimizes single-cell sequencing for these detected cells.



CELL MONITORING

The number of cancer cells and their conditions are also important for diagnosis. GENZ engineering team developed small laser microscopy and software to detect and automatically count the dead and live cancer cells using image processing.

