

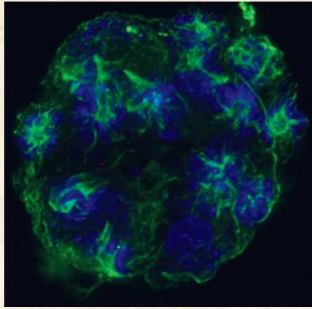
分子腫瘍学分野

Department of Molecular Oncology

Translation of basic science discoveries into validated therapeutic targets and biomarkers

The Mission of Molecular Oncology Laboratory Focuses on Three Goals:

1. The discovery of novel molecular targets for chemoprevention and treatment.
2. The development and validation of biomarkers for diagnosis and prediction of response/resistance to treatment.
3. The transition of assays developed in the Translational Molecular Genetics lab into the clinical laboratory environment.



Our Research Interests Are:

1. Mitotic Regulators and Chromosomal Instability in Cancer

We investigate essential key role interactions of oncogenic proteins and/or tumor suppressor proteins with mitotic kinases, frequently over expressed in a wide variety of human cancers, in the induction of chromosomal instability, deregulation of DNA and spindle checkpoints, and development of stem like phenotypes in mitotic kinases overexpressing chemo-resistant cancer cells.

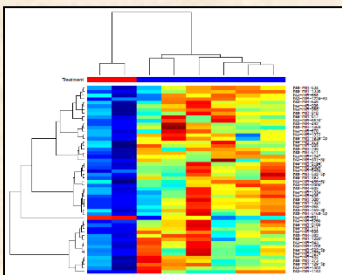
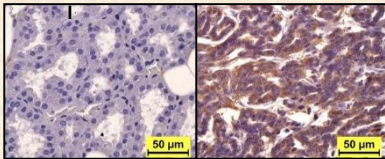
(Ref. Nature Genetics, Cancer Cell, J Natl Cancer Inst, Cancer Res.)

2. MicroRNAs/Exosome and Cancer Therapy

We pursue identification of microRNAs aberrantly expressed in lung and pancreatic cancers and their bona fide target genes to elucidate central signaling pathways relevant to tumor malignancy, and to validate them as promising cancer biomarkers in molecular diagnostics.

(Ref. Neoplasma, Plos One, Proteomics)

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