Projects for Postgraduate Students

Research Topic 1
Investigate the molecular mechanism of cancers, particularly smoking carcinogen induced-lung carcinogenesis and air pollutant PM2.5-induced lung carcinogenesis.

- Smoking carcinogen-NNK-induced lung cancer in A/J mice
- Sphere formation of lung cancer stem cell induced by PM2.5 and NNK.

Research Topic 2
Explore the novel anti-cancer agents.

- Pioglitazone (PGZ) induces lung cancer cell apoptosis
- Pioglitazone (PGZ) prevents NNK-induced lung tumor development in mice
Research Topic 3
Explore lung cancer biomarkers for early diagnosis and treatments.

Endogenous levels of PPARγ ligand 15(s)-HETE and 13(s)-HODE in lung cancer development of NNK-induced A/J mice

Endogenous levels of PPARγ ligand 15(s)-HETE and 13(s)-HODE in human lung cancer tissues

Interested candidates please send your CV and a brief research interest statement to postgrad@surgery.cuhk.edu.hk for consideration. Applications are open year round.
Publications (Five most representative publications in recent five years and five beyond the recent five-year period):


