

## Diagnostic Surgical Pathology

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### Other Faculty Members

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### Major Scientific Interests of the Group

- 1) Molecular pathology of multistep carcinogenesis
- 2) Studies of the initial genetic alterations of precancerous lesions and early carcinoma
- 3) Studies of the interactions between cancer cells and interstitial cells

### Projects for Regular Students in Doctoral or Master's Programs

- 1) Analysis for the molecular mechanisms of pulmonary adenocarcinogenesis. Screening of the differentially expressed genes and proteins between early adenocarcinoma of the lung (*in situ* adenocarcinoma) and early advanced tumors.
- 2) Produce monoclonal antibodies against fetal swine to screen for specific antibodies against human carcinomas.
- 3) *In vitro* and *in vivo* studies of the molecular mechanisms of the reproduction of liver tissue.

### Study Programs for Short Stay Students (one week – one trimester)

- 1) Basic techniques of immunohistochemistry, *in situ* hybridization, and FISH
- 2) Basic techniques of tissue micro-dissection

### Selected Publications

- 1) Shiba-Isii A, Noguchi M, et al. SFN inhibits SCFFWB7 formation and block ubiquitination of oncoprotein during the course of lung adenocarcinogenesis. *Clin Cancer Res* (*in press*)
- 2) Kosibaty Z, Noguchi M et al. Cytoplasmic expression of epithelial cell transforming sequence 2 (ECT2) in lung adenocarcinoma and its implication for malignant progression. *Lab Invest*, Epub ahead of print, 2018
- 3) Kim Y, Shiba-Ishii A, Noguchi M, et al. Stratifin regulates stabilization of receptor tyrosine kinases via interaction with ubiquitin-specific protease 8 in lung adenocarcinoma. *Oncogene* 37:5387-5402, 2018