

Ethical Approval Form: Human Research Projects

Project title	Monitoring changes of tumor microenvironment in colorectal submucosa using multiphoton microscopy
Name of applicant	Jianxin Chen, Guoxian Guan
Project department	Fujian Normal University, Fujian Medical University Union Hospital

Brief description of project:

This project belonging to the National Natural Science Foundation of China is a cooperative project of Prof. Guan and Prof. Chen.

Colorectal cancer specimens will be removed by surgeons, and then these specimens will be to pathology laboratory. Each colorectal tissue will be sectioned into slices approximately 10 μ m thickness by cryostat microtome. Some sections will be used for multiphoton microscopic imaging, and the others will be stained with H&E.

In this study, we choose the colorectal cancer as the research object, and monitor tumor microenvironment of colorectal submucosa during tumor progression by multiphoton microscopy (MPM). We try to identify that MPM has potential to become a powerful imaging tool for the investigation of targeting tumor microenvironment for cancer therapy.

Signature of applicant: *Guan Guoxian*

Review comment:

The protocol of this study adhering to the "International ethical guidelines for biomedical research involving human subjects" was granted by the ethics committee of Union Hospital.

Signature of ethics committee:



Date: March 28th, 2013