Author's response to reviews

**Title:** Suppression subtractive hybridization identified differentially expressed genes in lung adenocarcinoma: ERGIC3 as a novel lung cancer-related gene

**Authors:**

Mingsong Wu (hanyue4187@163.com)
Tao Tu (tutao311@163.com)
Yunchao Huang (huangych2001@yahoo.com.cn)
Yi Cao (caoy@mail.kiz.ac.cn)

**Version:** 2  **Date:** 23 August 2012

**Author's response to reviews:** see over
Dear Chap,

I am sending you a manuscript, entitled: “Suppression subtractive hybridization identified differentially expressed genes in human lung adenocarcinoma: ERGIC3 as a novel lung cancer-related gene” by Mingsong Wu, Tao Tu, Yunchao Huang, and Yi Cao, which we wish to be considered for publication in *BMC Cancer*. In the study, we constructed two cDNA libraries of lung cancer using lung adenocarcinoma tissue and its adjacent nonmalignant tissue by suppression subtractive hybridization. The 177 up-regulated and 59 down-regulated genes in lung cancer were obtained from the two libraries. The vast majority of these genes were identified to be linked to lung cancer for the first time. In the first stage of the screening for 16 genes, 2 abnormally expressed genes (ERGIC3 and LPCAT1) were newly found in lung cancer. ERGIC3 was further investigated. ERGIC3 was over-expressed in 89% cases of the lung cancer, but was not expressed in normal bronchial epithelial cells and alveolar cells. Furthermore, we observed that the up-regulation of ERGIC3 could promote cellular migration
and proliferation in vitro. ERGIC3 may be a novel lung cancer-related gene and may play an active role in the development and progression of lung cancer. The research contents conform to the editorial policy of *BMC Cancer*, and the data are interesting for oncologist, geneticist, molecular biologist, cell biologist, pulmonary disease experts, pathologist, and other readers of the journal.

We state that: 1) all authors and acknowledged contributors have read and approved the manuscript; 2) there are not any conflicts of interest (both financial and personal); 3) the study was approved by the local research ethics committees of all participating sites; 4) the manuscript has not been published previously and is not being considered concurrently by another publication.

The suggested peer reviewers:

1. Dr. Angela Risch, E-mail: a.risch@dkfz.de
2. Dr. Luda Diatchenko, E-mail: lbdiatch@email.unc.edu
3. Dr. Iiver. Petersen, E-mail: iver.petersen@charite.de
4. Dr. Chaitanya Bangur, E-mail: bangur@corixa.com
5. Dr. Hans-Peter Hauri, E-mail: Hans-Peter.Hauri@unibas.ch

Yours sincerely,

Prof. Dr. Yi Cao

Kunming Institute of Zoology, Chinese Academy of Sciences
32 Jiaochang Donglu,
Kunming,
Yunnan 650223,
China.
Telephone: 0086-871-5199081,
Fax: 0086-871-5199081
E-mail: caoy@mail.kiz.ac.cn.