

Certificate of Biostatistics

20 July 2020

To whom it may concern

Title of this study: Contrast-enhanced ultrasound in association with serum biomarkers for differentiating combined hepatocellular-cholangiocarcinoma from hepatocellular carcinoma and intrahepatic cholangiocarcinoma

Chief investigator:

Qiang Lu
Department of Ultrasound, West China Hospital of Sichuan University
Chengdu, China.

This letter is to confirm that I have read the ethics application prepared for this study, and that in my opinion the statistical method and techniques mentioned are appropriate for the research.

Please contact me if you have any queries.

Sincerely, *Cairong Zhu*

Department of epidemiology and biostatistics, West China School of Public Health,
Sichuan University

E-mail: cairong.zhu@hotmail.com

Telephone: 8613981968833