

Cite this as: Chun-xue LI, Li-rong SHEN, 2020. New observations on the effect of camellia oil on fatty liver disease in rats. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, **21**(8):657-667.
<http://doi.org/10.1631/jzus.B2000101>

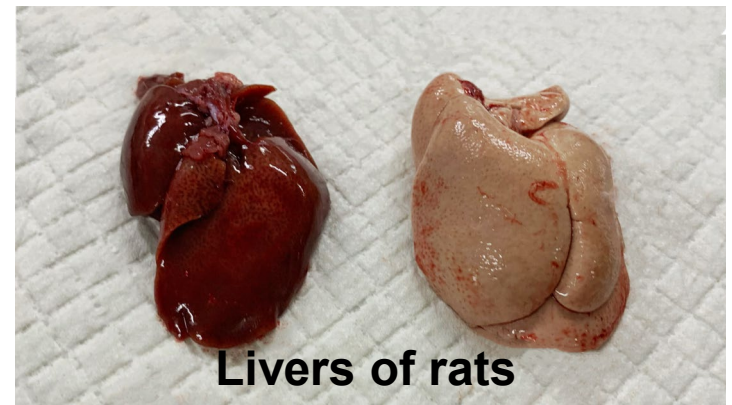
New observations on the effect of camellia oil on fatty liver disease in rats

Key words: Camellia oil, Fatty acid, Lipid droplet, Hepatocyte ultrastructure, Organelle

Research Summary

This study mainly focused on effect of camellia, soybean and olive oils on the nonalcoholic fatty liver (NAFLD) disease, and the key contents included in the following aspects:

- **Analysis of fatty acid profile for camellia, soybean and olive oils**
- **Effect of different plant oils on body weight, liver index and serum lipids of rats**
- **Cytological and ultrastructure characteristics in hepatocytes of rats fed by different plant oils.**



Innovation points

A series of figures were generated to the latest knowledge about effect of camellia, soybean and olive oils on the NAFLD in rat hepatocytes

Fig. 1 | Effect of different diet groups on body weight, liver index and serum lipids and lipoproteins in rats.

Fig. 2 | Micrographs of the hepatocytes in liver tissues stained with hematoxylin and eosin in different diet groups of rats

Fig. 3 | Transmission electron micrographs of hepatocytes in rats in the regular chow diet group .

Fig. 4 | Transmission electron micrographs of hepatocytes in the control diet group

Fig. 5 Transmission electron micrographs of hepatocytes in rats in the high-fat diet group

Fig. 6 | Transmission electron micrographs of hepatocytes of rats in the olive oil-fed group

Fig. 7 | Transmission electron micrographs of hepatocytes of rats in the soybean oil-fed group

Fig. 8 | Transmission electron micrographs of hepatocytes of rats in the camellia oil-fed group