



ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 23688

Title: Visualization of sphingolipid and phospholipids in gastric epithelial tissue using imaging mass spectrometry

Reviewer's code: 03026970

Reviewer's country: China

Science editor: Yuan Qi

Date sent for review: 2015-12-11 13:16

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Table with 4 columns: CLASSIFICATION, LANGUAGE EVALUATION, SCIENTIFIC MISCONDUCT, CONCLUSION. It contains checkboxes for various review criteria like 'Grade A: Excellent', 'Priority publishing', 'Google Search', etc.

COMMENTS TO AUTHORS

ESPE Manuscript NO: 00503561 Comments: Minor revise. This report combines the imaging mass spectrometry with immunohistochemistry to show the lipid spatial distribution on gastric mucosae. Imaging mass spectrometry is shown to be a useful tool to survey the distribution of biomolecules in the pathological samples. This report firstly applied the iMSope to locate the lipids including both phospholipids and sphingolipid in gastric mucosa, which is helpful to better understand the lipid's function in stomach. This report is of novelty and originality, but several questions are still remained. 1. In Abstract, the last sentence of results section, 'PC (16:0/18:2) signals uniformly distributed around the mucosae'. I guess there is a careless mistake, should 'PC (16:0/18:2)' change to 'PC (16:0/18:1)'? 2. In Materials and Methods section, 'The tissue blocks were then sectioned to a thickness of 8 mm at -20°C', should revise to '8µm'? And for immunohistochemistry, 4µm of specimens' thickness would be better. Have you set any positive/negative controls when conduct immunohistochemistry? 3. It would be better if you provide some basic information about the 5 patients who donated the gastric specimens, could their illness influence the results? Have you



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considered the gastric specimen from health volunteers? 4. All samples were from fundic gland area, so I guess the results only represent the fundic gland area and may not well reflect the whole gastric mucosae. 5. If any disease portions were included for consideration and analysis, there would be more information of lipids distribution and may contribute more to the gastric disease's research. 6. There some grammar and language mistakes need to be revised.