

## ESPS Peer-review Report

**Name of Journal:** World Journal of Gastroenterology

**ESPS Manuscript NO:** 4401

**Title:** THE PHYSIOLOGICAL AND MOLECULAR BIOCHEMICAL MECHANISMS OF BILE FORMATION

**Reviewer code:** 00068912

**Science editor:** Song, Xiu-Xia

**Date sent for review:** 2013-07-01 14:39

**Date reviewed:** 2013-07-01 18:34

| CLASSIFICATION                                    | LANGUAGE EVALUATION                                                      | RECOMMENDATION                          | CONCLUSION                                                 |
|---------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|
| <input type="checkbox"/> Grade A (Excellent)      | <input type="checkbox"/> Grade A: Priority Publishing                    | Google Search:                          | <input type="checkbox"/> [ Y] Accept                       |
| <input type="checkbox"/> [ Y] Grade B (Very good) | <input type="checkbox"/> [ Y] Grade B: minor language polishing          | <input type="checkbox"/> [ ] Existed    | <input type="checkbox"/> [ ] High priority for publication |
| <input type="checkbox"/> [ ] Grade C (Good)       | <input type="checkbox"/> [ ] Grade C: a great deal of language polishing | <input type="checkbox"/> [ ] No records | <input type="checkbox"/> [ ] Rejection                     |
| <input type="checkbox"/> [ ] Grade D (Fair)       |                                                                          | BPG Search:                             | <input type="checkbox"/> [ ] Minor revision                |
| <input type="checkbox"/> [ ] Grade E (Poor)       | <input type="checkbox"/> [ ] Grade D: rejected                           | <input type="checkbox"/> [ ] Existed    | <input type="checkbox"/> [ ] Major revision                |
|                                                   |                                                                          | <input type="checkbox"/> [ ] No records |                                                            |

## COMMENTS TO AUTHORS

Dear Editor, I read with interest the review "The physiological and molecular biochemical mechanisms of bile formation". This is an important work. The Title of manuscript accurately reflects the content of the review. The author is well written review and summarized the current status of physiological and molecular biochemical mechanisms of bile formation. Review is well structured: described the composition of bile and the structure of a bile canaliculus, biosynthesis and conjugation of bile acids, bile phospholipids, formation of bile micelles structures, enterohepatic circulation of bile acids. In review presents the modern ideas of molecular physiology of the transporting systems of the hepatocyte: sinusoidal and canalicular solute export transporters; transcellular transport of the main components of bile. Knowledge of physiological and biochemical basis of bile formation has implications on the understanding of mechanisms of development of pathological processes at gallstone disease, primary biliary cirrhosis, primary sclerosing cholangitis, and other cholestatic diseases of liver