Reviewer's report

Title: Promoter methylation and large intragenic rearrangements of DPYD are not predictive of severe toxicity to 5-fluorouracil-based chemotherapy in gastrointestinal cancer

Version: 2 Date: 17 July 2010

Reviewer: Zdenek Kleibl

Reviewer's report:

The authors substantially revised the manuscript; however, several minor issues still need to be revised:

1) Abstract - the sentence: "Decreased immunoexpression of DPD and TYMS was found in 59% and 11% of the carcinomas, respectively." needs to be omitted as the data were removed from this manuscript.

2) Results - paragraph 3.1. This paragraph is abundant in Results section as i) in majority doubles the data shown in table 1 and fig 1 and ii) describes the enrollment criteria/conditions not results. Therefore, together with table 1 and fig 1 is should be addressed in Material and Method section where the paragraph 2.2 Patient selection and CLINICAL EVALUATION is appropriate for communicating of these data. On the other hand, I still lack the evaluation of toxicity and histopathological/clinical data from carriers of mutations in e14 (gender, type, onset and grade of toxicity, treatment regimes, etc). Despite that this is not a key point of this paper it is of potential interest for readers dealing with 5FU toxicity.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests