Reviewer's report

**Title:** Functional examination of MLH1, MSH2, and MSH6 intronic mutations identified in Danish colorectal cancer patients

**Version:** 2  **Date:** 23 August 2013

**Reviewer:** Monika Morak

**Reviewer's report:**

Discretionary Revisions :
- the allelic frequencies of the intronic sequence changes should be mentioned.
- in the supplemental table, also immunohistochemical staining of MLH1, MSH2, MSH6 and PMS2 and microsatellite analyses should be listed or mentioned in the text, if data are not available for the patients, especially for the Amsterdam-positive families.
- in the discussion, the family history should also be discussed in relation to the result of pathogenicity, especially for Amsterdarn-positive without pathogenic mutation.
- method: only one cell type was used, this excludes contradictory results
- the question: splice defect or not ? has been answered with very clear results. The UV was either 100% splice defect disturbing normal splicing or 100% normal. Quantification was not necessary, as no partial splicing effect was found.

**Level of interest:** An article of outstanding merit and interest 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.