Reviewer’s report

Title: Molecular discrimination between follicular thyroid carcinoma and adenoma based on gene expression profiling in formalin-fixed paraffin-embedded samples

Version: 1 Date: 25 July 2013

Reviewer: cristina romei

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The present manuscript proposes a molecular classifier for the preselection of FTC. They give proofs that a 5 gene classifier approach has enough accuracy, sensitivity and specificity for thei proposed goal. Some questions should be answered.

Major Compulsory Revisions

1. The experiments described in the paper have been well organized in group of cases for the testing and validation of data. Especially for those readers who are not very confident with these kind of experiments there could be some problems to understand. I would suggest to explain for example what is a "training or testing dataset".

2. Although it is explained in the supplemental materials, DLDA should be described also in the text.

3. It is my opinion that the discussion is too long and in particular the description of the 5 genes might be avoided

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:

I have not any conflict of interest